Boston Combined Residency Program

In 1996, the Boston Combined Residency Program (BCRP) was created by merging the separate pediatric training programs at Boston Children’s Hospital and Boston Medical Center. The BCRP, the first combined residency program in pediatrics in the US, also brought together two major medical schools (Harvard Medical School and Boston University School of Medicine).

The architects of this merger were Fred Lovejoy and Bob Vinci, the educational leaders at BCH and BMC who then served as the initial program directors for the BCRP. The educational, clinical and research accomplishments of each institution formed the foundation for this collaborative venture. The BCRP merger had, at its core, a singular emphasis of pediatric education and was built upon the rich tradition of the previously separate training programs at Boston Children’s Hospital and Boston Medical Center. Lovejoy and Vinci worked together for an entire academic year, crafting together the BCRP with a primary mission of training residents as excellent pediatricians but also emphasizing preparation for academic leadership in the general and subspecialty disciplines. It was their belief that by providing a foundation of clinical and educational experiences while creating opportunities for independence and learning, the BCRP would establish a culture of academic excellence that would enhance the training of pediatricians who would become academic, clinical and educational leaders of the future.

The BCRP, now in its 22nd year, continues to flourish and adapt to the changing elements of pediatric training. Our program continues to support the diverse interests of our house staff in an environment that provides clinical experiences at both Boston Children’s Hospital and Boston Medical Center in strong partnership with our dedicated pediatric faculty.

Boston Children’s Hospital

1869-1881

Soon after the Civil War, in 1869, Dr. Francis Henry Brown organized a small group of Harvard Medical School graduates joined by Boston's civic leaders to establish a 20 bed Children’s Hospital in a townhouse on Rutland Street in Boston's South End. The hospital treated just 30 patients that first year. One year later the Children’s Hospital relocated to a larger building on the same street. The patients were predominately Irish immigrants and many had traumatic injuries or infectious diseases. Philanthropy completely supported the new hospital. Sister Theresa and the Anglican Order of the Sisters of St. Margaret oversaw the nursing care of the children for the first 45 years of the hospital's existence.

1882-1913

By 1882 having outgrown its current structure, the hospital was moved to Huntington Avenue near the current Symphony Hall. This larger building was designed especially for children's needs. As the range of illnesses grew, so did the professional staff. Between the years 1882 and 1914 the practice of pediatrics was recognized as a specialty and Harvard Medical School made its first appointment of a physician devoted solely to the care of children. The first medical house officers (interns and externs) were appointed and a nursing school was opened to educate nurses.

Children's Hospital neighbors were far different in 1914 than today.
1914-1945
In the early 1900s Harvard Medical School moved to the former Ebenezer Francis Farm, its current site, and in 1914 the Children’s Hospital relocated to its current address on Longwood Avenue immediately next to the Medical School. During this era the Hunnewell building housed the children until a series of “cottages” were built to minimize the spread of infection. These “cottages” housed medical, surgical and orthopedic patients. Departments now differentiated into Surgery, Medicine, Radiology, Orthopaedics, and Pathology to mention only a few. Cystic fibrosis, erythroblastosis fetalis and other diseases were described and studied by Children’s Hospital physicians. Pediatric medicine subspecialized into metabolism, hematology and bacteriology. Surgeons developed new techniques for repairing congenital abnormalities. The field of cardiac surgery was begun and the iron lung for polio victims was developed by physicians at Children’s Hospital and the Harvard School of Public Health. Harvard medical students began to learn pediatrics at the Children’s Hospital. The housestaff grew from 3-4 in 1900 to over 30 in the early 40s. Women became residents when men left to serve in World War II. The Medical & Nursing Alumni Associations were established. During this period, Children’s Hospital forged strong bonds with other institutions including the House of the Good Samaritan (for rheumatic fever patients), the Sarah Fuller School (for deaf children), the Judge Baker Children’s Center (for psychiatric illness) and the Sharon Sanatorium. Remarkably, in 1939 the average cost of a hospital visit was just $1.50.

1946-1990
During the years 1946 to 1990 the Children’s Hospital was well positioned to take a leadership role in pediatric health. Experienced physicians returned from the military service. The NIH established programs to support academic research. The Children’s Hospital organized itself into the Children’s Hospital Medical Center. The hospital endorsed specialized pediatric care, and began the construction of new buildings: the Farley inpatient building (in 1956), the Fegan outpatient building (in 1967), the Martha Eliot Health Center (in 1967), and the Enders research building (1970) named for Dr. John Enders, recipient of the Nobel Prize for his work with polio virus. In 1987 a new inpatient facility was built bringing the number of inpatient beds to 330. Old diseases such as polio, measles, pertussis, meningitis, pneumonias, and epiglottitis decreased in prevalence because of vaccines, and new antibiotics, only to be replaced by new diseases like HIV, Kawasaki’s, substance abuse, and the autism spectrum disorders. The faculty in all departments grew rapidly. The medical housestaff by 1990 numbered over 86 residents. All subspecialties had developed outstanding fellowships. The hospital was now a primary education site for Harvard medical students and elective students from throughout the US, and Children’s Hospital enjoyed both a national and international reputation.

1990-Present
The years since 1990 have seen increasing excellence in patient care, great research productivity, new medical innovations, and remarkable contributions to pediatric medical education. Children’s Hospital clinicians have pioneered lung, liver, and multiple organ transplants, innovative procedures for short gut syndrome, surgery using robotics and lasers, the development of tissue engineered organs, the use of small devices to repair holes in the heart, hydroxyurea to treat sickle cell disease, gene therapy, novel treatments for vascular malformations, and fetal intervention for hypoplastic left heart syndrome, among others. Children’s researchers have developed treatments for blood disorders, regenerared damaged nerves, identified genes associated with specific diseases, developed new vaccines for serious illnesses, created disease-specific human stem cells, invented genomic tools to classify tumors and identify new drug therapies, become leaders in gene therapy and developed whole new fields, such as angiogenesis.

Before the mid-1950s, Children’s wards were separated into cottages to limit the spread of infection. The white marble buildings of Harvard Medical School are in the background.
1869 Boston Children's Hospital opens as a 20-bed facility at 9 Rutland Street in Boston's South End.

1891 Children's establishes the nation's first laboratory for the modification and production of bacteria-free milk.

1920 Dr. William Ladd devises procedures for correcting various congenital defects such as intestinal malformations, launching the specialty of pediatric surgery.

1922 Dr. James Gamble analyzes the composition of body fluids and develops a method for intravenous feeding that saves the lives of thousands of infants at risk of dehydration from diarrhea.

1932 Dr. Louis Diamond characterizes Rh disease, in which a fetus’s blood is incompatible with its mother’s. Diamond later develops exchange transfusion to treat the disease.

1938 Dr. Robert Gross performs the world’s first successful surgical procedure to correct a congenital cardiovascular defect, ushering in the era of modern pediatric cardiac surgery.

1947 Dr. Sidney Farber achieves the world’s first successful remission of acute leukemia. He goes on to found the Dana-Farber Cancer Institute.

1954 Dr. John Enders and his colleagues win the Nobel Prize for successfully culturing the polio virus in 1949, making possible the development of the Salk and Sabin vaccines. Enders and his team went on to culture the measles virus.

1971 Dr. Judah Folkman publishes “Tumor angiogenesis: therapeutic implications” in the New England Journal of Medicine. It is the first paper to describe Folkman’s theory that tumors recruit new blood vessels to grow.

1978 Dr. Stuart Orkin develops restriction endonuclease mapping to diagnose thalassemia in utero. A similar technique led to the development of prenatal tests for sickle cell anemia in 1982.

1983 Children’s physicians report the first surgical correction of hypoplastic left heart syndrome, a defect in which an infant is born without a left ventricle. The procedure is the first to correct what previously had been a fatal condition.

1985 The Howard Hughes Medical Institute funds a major research program in molecular genetics, the first HHMI program at a pediatric hospital.

1986 Children’s surgeons perform the hospital’s first heart transplant.

1986 Drs. Louis Kunkel and Stuart Orkin and their research teams develop the technique of positional cloning to identify the genes responsible for Duchenne muscular dystrophy and chronic granulomatous disease, respectively.

1989 Researchers in Neurology and Genetics discover that beta amyloid, a protein that accumulates in the brains of people with Alzheimer’s disease, is toxic to neurons, indicating the possible cause of the degenerative disease.

1990 Dr. Joseph Murray, chief of Plastic Surgery emeritus, wins the Nobel Prize for his pioneering work in organ transplantation.

1996 Boston Combined Residency Program formed.

1997 Endostatin, one of the most potent inhibitors of angiogenesis, is discovered by Drs. Michael O’Reilly and Judah Folkman.

1998 Dr. Anthony Atala successfully transplants laboratory-grown bladders into dogs, a major advance in the growing field of tissue engineering.

1998 Dr. Evan Snyder clones the first neural stem cells from the human central nervous system.

1999 Dr. Todd Golub first uses gene expression microarrays to differentiate cancers.

1999 The FDA approves the use of CardioSEAL, a minimally invasive device invented by Dr. James Lock that closes holes in the hearts of the most seriously ill cardiac patients.

2000 Dr. Frederick Alt finds that end-joining proteins maintain the stability of DNA, helping to prevent the chromosomal changes that precede cancer.

2001 Children’s performs the world’s first successful fetal repair of hypoplastic left heart syndrome in a 19-week-old fetus.

2002 Dr. Nader Rifai co-authors a landmark study showing that a simple and inexpensive blood test for C-reactive protein is a more powerful predictor of a person’s risk of heart attack or stroke than LDL cholesterol.

2002 Drs. Scott Pomeroy and Todd Golub use microarray gene expression profiling to identify different types of brain tumors and predict clinical outcomes.

2003 Drs. Heung Bae Kim and Tom Jaksic develop, test and successfully perform the world’s first-ever serial transverse enteroplasty (STEP) procedure, a potential lifesaving surgical procedure for patients with short bowel syndrome.

2004 Dr. Marsha Moses and her colleagues show that ADAM 12, when found in urine, is a reliable indicator of the presence of breast cancer.

2005 Dr. Stephen Harrison and colleagues show how a key part of the human immunodeficiency virus (HIV) changes shape, triggering other changes that allow the AIDS virus to enter and infect cells.

2005 Dr. Raif Geha discovers a gene mutation that causes common variable Immunodeficiency (CVID) and IgA deficiency.

2006 Dr. Scott Armstrong identifies self-renewal genes that turn a normal blood cell progenitor into a leukemic stem cell.

2006 Dr. Dale Umetsu and colleagues characterize NKI cells, which may play an important role in causing asthma, even in the absence of conventional T-helper cells.
2006 Dr. Hannah Kinney links sudden infant death syndrome (SIDS) to abnormalities in the brainstem serotonin system, which regulates breathing, blood pressure, body heat and arousal.

2006 Children’s urologists successfully implant laboratory-grown bladders, the first completely tissue-engineered organs to be implanted in humans, in seven children with spina bifida.

2006 Dr. Doug Cowan creates a tissue-engineered, electrically conductive implant for the heart and shows that it functions well in mice.

2006 Drs. Sean Wu, Stuart Orkin and colleagues discover a type of stem cell that is the precursor to at least two main cell types that form the heart.

2007 Dr. Charles Nelson proves that abandoned children do much better cognitively if moved from institutions to foster care.

2007 Dr. Len Zon discovers that prostaglandin E2 greatly stimulates the growth of blood and probably other tissue stem cells.

2007 Dr. Lois Smith finds that omega-3-polyunsaturated fatty acids reduce pathological retinal angiogenesis and are a potential therapy for retinopathy of prematurity.

2007 Dr. David Ludwig demonstrates that diets rich in rapidly-digested carbohydrates not only expand waistlines, but may also cause fatty liver disease.

2007 Cardiac surgeons Drs. Virna Sales and John Mayer create living, growing heart valves in an animal model using tissue engineering techniques.

2008 Dr. George Daley discovers how to reprogram human somatic cells to pluripotent stem cells with defined transcription factors.

2008 Dr. Chris Walsh and his colleagues identify several genetic loci that cause autism.

2008 Drs. Vijay Sankaran and Stuart Orkin discover that the fetal hemoglobin to adult hemoglobin switch is controlled by the BCL11A transcription factor. This solves a decades old problem in hematology and has important implications for the treatment of sickle cell disease and thalassemias.

2008 Dr. Zhi He observes that stimulation of the mTOR pathway increases axon regeneration after CNS injury. Subsequently, in 2012, Dr. He describes methods for achieving robust and sustained axon regeneration.

2008 A consortium led by Dr. Joel Hirschhorn discovered six new genetic variants linked to obesity. Most are active in the brain, suggesting that differences in appetite regulation contribute to obesity.

2008 Neurobiology researchers at Children’s successfully get damaged nerves to recover and regrow in a mouse model by temporarily silencing genes that normally prevent regeneration.

2008 Dr. Scott Armstrong discovers MLL is caused by an epigenetic change that leads DOT1L to alter chromosome structure and activate normally silent genes.

2008 Children’s neuroscientists identify Npas4, the first known “master switch” in brain cells to orchestrate the formation and maintenance of inhibitory synapses.

2009 Immune Disease Institute joins Children’s Hospital as the Program in Cellular and Molecular Medicine.

2009 Drs. George Daley and Richard Gregory show that the microRNA, Lin 28, plays an important role in germ cell development and cancer.

2009 Drs. Len Zon and George Daley discover that blood flow triggers development of hematopoietic stem cells.

2010 Dr. Jon Kagan and his team show that peroxisomes are important in the innate immunity against viruses.

2011 Drs. Luigi Notarangelo, Sung-Yun Pai and David Williams achieve the first successful treatment of severe combined immunodeficiency by gene therapy in the US.

2011 Drs. Stuart Orkin, Vijay Sankaran and their colleagues are able to correct sickle cell disease in mice by silencing BCL11A, which shows that the fetal hemoglobin switch can be reversed.

2012 Dr. Heung Bae Kim develops novel method to stretch arteries in vivo for repair of arterial defects.

2012 Standardized Clinical Assessment and Management Plans (SCAMPS) method developed for reducing costs and variability of care and improving outcomes.

2013 Drs. Amy Starmer, Ted Sectish and Chris Landrigan develop a patient handoff method (I-PASS) that greatly reduces medical errors and preventable adverse events.

2013 Dr. Dan Bauer discovers an erythroid specific enhancer of BCL11A whose deletion raises fetal hemoglobin without affecting BCL11A in the brain and lymphocytes where it is needed. The discovery opens the door to gene editing of BCL11A as a treatment for sickle cell disease and thalassemia.

2013 Dr. Joseph Majzoub finds that MRAP2, a protein that regulates melanocortin signaling, is involved in body weight regulation in humans.

2014 Drs. Jeff Burns and Tracy Wolbrink launch OPENPedia, an innovative web-based digital learning platform linking physicians and nurses across the world.

2014 Dr. Rani George discovers that neuroblastomas that overexpress MYC oncoproteins are selectively killed, without systemic toxicity, by inhibiting cyclin-dependent kinase 7 (CDK7).

2014 Dr. Fernando Camargo discovers that the Hippo-signaling pathway maintains the differentiated hepatocyte state. Loss of Hippo causes hepatocytes to revert to a progenitor state.

2014 Dr. Derrick Rossi devises a procedure to reprogram myeloid cells into hematopoietic stem cells.

2014 Dr. Carla Kim identifies mechanisms that drive the differentiation of lung stem cells and contribute to alveolar repair after injury.

2015 Dr Joel Hirschhorn and others identify a large number of genes that contribute to obesity and body fat distribution.

2015 Dr Len Zon defines the perivascular hematopoietic stem cell (HSC) niche and shows that epoxyeicosatrienoic acid lipids enhance HSC engrafment.

2015 Dr Beth Stevens wins MacArthur “Genius” Award for defining the role of microglia in synapse pruning in development and Alzheimer’s disease.
2015 Dr. Louis Kunkel and his colleagues show that overexpression of the Jagged protein ameliorates Duchenne muscular dystrophy suggesting a possible therapy for the disease.

2015 Dr. Hao Wu visualizes the structure of the inflammasome, which activates innate immunity, and how it is assembled.

2015 Dr. Umut Ozcan discovers that Celastrol, a pentacyclic triterpene extracted from the roots of the thunder god vine plant, is a leptin sensitizer and a powerful anti-obesity agent.

2016 Dr Len Zon shows that reversion to a neural crest identity initiates the first cancerous cell in melanoma.

2015 Dr. Min Dong shows that the Frizzled proteins are the gastrointestinal receptors for C. difficile toxin and subsequently shows that the glycosphingolipid Gb3 is the receptor for Shiga toxin.

2016 Dr. Beth Stevens reports the important discovery that the complement pathway and microglia, which prune excess synapses during normal brain development, are inappropriately activated and cause synaptic loss early in Alzheimer's disease.

2016 Dr. Judy Lieberman discovers a new innate pathway for intracellular killing of bacteria by gasdermin D, which binds to the bacterial membrane and forms a lethal pore.

2016 Dr. George Daley and his colleagues find that loss of the let-7 microRNA family plays a key role in the development of neuroblastomas and is associated with a poor outcome.

2016 Dr. Seth Rakoff-Nahoum discovers that some gut bacteria cooperate by metabolizing nutrients for each other; likely the first of many examples of microbial symbiosis.

2017 Children's hematology/oncology faculty member George Q. Daley becomes Dean of Harvard Medical School.

2017 Researchers at Children's and Beth Israel Deaconess Hospitals discover how the Ube3a gene impairs sociability in autism.

2017 Nick Haining identifies Pttn2 and other cancer immunotherapy targets using a genetic screen

2017 Zhigang He, Larry Benowitz and Clifford Woolf, working independently, show that spinal cord regrowth can occur, raising the real possibility of clinical recovery from spinal cord injury and paralysis.

2017 Mark Fleming and his colleagues discover a key mechanism in the remodeling of erythroblasts to red blood cells.

2017 David Williams, Christy Duncan and their colleagues successfully treat cerebral adrenoleukodystrophy with gene therapy.

2017 Todd Golub creates a Connectivity Map linking more than a million genes, drugs, and disease states by virtue of their common gene-expression signatures.

2018 Vijay Sankaran shows that in Diamond-Blackfan anemia decreased numbers of ribosomes profoundly decreases translation of RNAs needed for erythroid differentiation.

2018 Thomas Kirchhausen develops a new microscope that achieves remarkable high resolution, noninvasive imaging of subcellular processes in large cell volumes.

2018 Dr Michael Wessels and his colleagues show that in necrotizing fasciitis, Strptococcus hijacks the pain and neural regulation of the immune response.

2018 Bill Pu discovers that serum response factor is a key regulator of embryonic cardiomyocyte maturation.

2018 Fred Alt develops a clever technique to study how specific genes influence disorders of the brain by substituting genetically engineered ES cells for normal forebrain cells in developing mice.

2019 Drs David Williams and Erica Esrick cure a patient with sickle cell disease by expressing a shRNA against BCL11A in his hematopoietic stem cells and reactivating the synthesis of fetal hemoglobin.

2019 Pierre Dupont develops a self-driving robotic catheter that finds its way through blood vessels and a beating heart to a leaky valve without a surgeon's involvement.
Boston Medical Center

The establishment of Boston City Hospital in 1864 was a major accomplishment for the City of Boston. Boston City Hospital was the first municipal hospital established in the United States.

As a municipal institution, Boston City Hospital began to provide much needed health care to both the urban poor of Boston and the ever-increasing number of Irish immigrants entering the city during the mid-19th century. Boston Medical Center, which is the result of the 1996 merger of Boston City Hospital and University Hospital, exists on the grounds of the original Boston City Hospital. In the first 50 years of its existence, Boston City Hospital did not have a Pediatric Service. Children were admitted to one of the four Medical or Surgical Services in wards that housed adults. In 1919 Boston City Hospital determined that two buildings, near the site of the current Menino Pavilion would be dedicated to the care of children and this began the Pediatric Service. With support from the City of Boston, funds were earmarked for a free standing Children’s Building, and in honor of the wife of Mayor Curley, the Mary E. Curley Pavilion for Children opened in 1932. This nine story facility housed a Walk-In Clinic, an Ambulatory Clinic and a large inpatient Pediatric ward service, which occupied five stories of the Curley Pavilion. A number of the current faculty provided care in the Curley Pavilion.

Over the years, the Pediatric Service at Boston City Hospital has continued its long tradition of providing service and patient care to the children and families of Boston. The Department continues to be a national leader in areas of advocacy, urban health and health services research. Since its inception under Dr. Martin J. English in 1923, and the continued leadership of the preeminent pediatricians of their time—Drs. Eli Friedman, Sydney Gellis, Horace Gezon, Joel Alpert, Barry Zuckerman and Bob Vinci — the mission of the department has continued to be integrated with the changing needs of our patient population. The Department remains committed to solving the health care challenges of the urban poor and focuses its clinical and research expertise in topics such as racial disparities, food and housing insecurity, adverse childhood events, substance use disorders, infectious diseases, childhood obesity, autism and medical informatics. While the landscape of Boston has seen many changes in the 150-year history of Boston City Hospital/Boston Medical Center, the consistent mission of the Department of Pediatrics remains imbedded in the framework of the families and children they serve. A review of the innovations pioneered by the Department has been published.
Boston Medical Center Milestones

1848 The Boston Female Medical College is established as the first medical school created for educating women physicians. It later became the New England Female Medical College.

1850 Samuel Shattuck, known as the Father of Public Health, is the primary author of the “Report of the Sanitary Commission of Massachusetts.”

1873 Boston University merges with the New England Female Medical College to establish the Boston University School of Medicine.

1897 Dr. Solomon Carter Fuller, who would become the nation’s first black psychiatrist, graduates from the BUSM. A pioneer in Alzheimer’s research, Dr. Fuller was an early proponent of minority recruitment.

1946 Dr. Sydney Gellis becomes Chief of the Department of Pediatrics at Boston City Hospital. Dr. Gellis was the 1959 President of the Society for Pediatric Research and would late become Dean of BUSM in 1962.

1970 Under the direction of Dr. Robert Klein, the Department of Pediatrics at Boston City Hospital developed one of the first childhood lead poisoning programs in the nation.

1972 Dr. Joel Alpert becomes Chief of Pediatrics and in 1973 was awarded funding from RWJ to develop primary care residency training. Dr. Alpert and Dr. Alan Cohen then received the first Federal Funding for the first Primary Care Residency Training Program in the nation, and the Pediatrics Dept at Boston City Hospital developed a national reputation for residency training in primary care and community based pediatrics.

1974 Dr. Jerome Klein describes his work on occult bacteremia in the New England Journal of Medicine. Dr. Klein was the 2002 recipient of the prestigious Maxwell Finland Award for Lifetime Achievement in Pediatric Infectious Disease.

1982 Dr. Barry Zuckerman establishes a Developmental and Behavioral Pediatric Fellowship Program that has trained over 35 leaders in DBP across the nation.

1989 Drs. Robert Needleman and Barry Zuckerman, with colleague Kathleen Fitzgerald Rice, begin Reach out and Read (ROR). In 1998, ROR received federal funding to establish a national model of literacy education promoted by pediatricians. Currently there are more than 4500 sites, serving more than 5 million children nationally. 28,000 pediatricians, nurses and other clinicians have been trained in the ROR strategy of early literacy.

1989 The Pediatric HIV program joins the NIH network to develop new approaches to the treatment and prevention of HIV. Under the leadership of Jerome Klein and Steve Pelton, the division participates in landmark studies of AZT in the newborn infant and helps to establish the Women and Infants study of vertical transmission.

1990 Hortensia Amaro establishes the MOM’s Project, a community-based intervention program aimed at improving birth outcomes and reducing drug use among pregnant women by linking them with healthcare services, social service supports, counseling and peer support.

1992 Child Witness to Violence Project is launched. In addition to counseling affected children, the program trains frontline professionals, police, and family court officials to recognize the signs children show when they have witnessed violence.

1993 Barry Zuckerman becomes Chief of Pediatrics and establishes the Family Advocacy Program. This unique collaboration between lawyers and pediatricians, now called the Medical-Legal Partnership Boston (MLPB), provides direct, proactive legal assistance in the clinical setting to families at Boston Medical Center. The MLPB also educates healthcare professionals to identify non-medical barriers to a patient’s health and to incorporate advocacy as part of their treatment plan. In 2007 the Robert Wood Johnson and Kellogg Foundations provided support to establish the National Center of MLP to disseminate the model nationally. Presently there are over 220 MLP Programs.

1994 With $40 million support from the Commonwealth Fund and other foundations, Drs. Barry Zuckerman, Steven Parker, Marilyn Augustyn and Margot Kaplan-Sanoff developed and implemented Healthy Steps at 12 sites nationally.

1996 Boston Combined Residency Program (BCRP) formed.

1996 Boston Medical Center (BMC) was created by the merger of Boston City Hospital and University Hospital.

1996 Project HEALTH (Helping Empower, Advocate and Lead through Health), currently called HealthLeads, was founded by Rebecca Onie as a collaboration of Harvard undergraduates and Boston Medical Center’s Department of Pediatrics. It has grown to a network of college volunteers and health care mentors that aid urban children and families.

1997 Children’s Sentinel Nutritional Assessment Program formed. CSNAP (now Children’s Healthwatch) is a multisite surveillance program of children birth to 3 years of age that monitors the impact of economic conditions and public policies on the health and well-being of very young children.

1999 Under the direction of Dr. Bobbi Philipp, BMC became the first hospital in New England to achieve Baby-Friendly status, fully implementing the Baby-Friendly Hospital Initiative, Ten Steps to Successful Breastfeeding.

2003 BMC Pediatrics opens the first hospital-based preventive-care food pantry.

2004 Drs. Chi Huang and CC Lee establish the Global Child Health Initiative at Boston Medical Center and the BCRP.
2004 Boston University School of Medicine is designated as the new site for the National Emerging Infectious Diseases Laboratories (NEIDL). This is one of only four non-governmental Biosafety level 4 laboratories in North America. Designed to anticipate the research needs of investigators over the next 20 years, the lab engages in cutting-edge research into diagnostic tests, treatments and vaccines for emerging infectious diseases.

2004 Department of Pediatrics establishes the SPARK Center. The Spark Center (a merger of two innovative programs: the Children's AIDS Program and the Family Development Center) is a model childcare program offering comprehensive, integrated services for children and families whose lives are affected by medical, emotional and/or behavioral challenges.

2006 During the first 10 years of its formal organization, 15 members of the Division of General Pediatrics received 18 career development awards from the NIH and various foundations.

2008 Boston University School of Medicine is awarded a Clinical and Translational Science Institute named the BU-BRIDGE from the NIH. The focus of this 7 million dollar award is to increase the amount of translational research done at BUSM/BMC.

2009 Project HEALTH receives a $2M grant from the Robert Wood Johnson Foundation to support the Family Help Desk model in other institutions. Today, Project HEALTH's 600 college volunteers staff Family Help Desks in 6 cities that assist over 4,500 patients and their families annually in securing health related community resources.

2011 Drs. Julie Herlihy and Bob Vinci establish a 4-yr Child Global Health Residency in collaboration with the Center for Global Health and Development at the BU School of Public Health.

2011 Dr. Howard Bauchner is named the 16th Editor in Chief of the Journal of the American Medical Association.

2013 Dr Bob Vinci becomes the Chief of Pediatrics at Boston Medical Center and the Boston Univ School of Medicine.

2013 Dr. Debra Frank is the recipient of the AMA 2013 Excellence in Medicine Award.

2014 The Department of Pediatrics received the 2014 APA Health Care Delivery Award.

2015 Dr. Bob Vinci receives the Association of Pediatric Program Director's Robert S. Holm Award, honoring an APPD member for extraordinary contributions in pediatric program director leadership and/or support of other directors as a mentor, advisor or role model at a national level through APPD.

2015 Lucy Marcil and Michael Hole begin StreetCred, a program that co-locates free tax services in the BMC pediatric outpatient clinic with the goal of ensuring all eligible families receive the Earned Income Tax Credit, one of the proven anti-poverty measures in the US. Since 2016, StreetCred has returned more than $1.6 million to Boston families.

2017 The Urban Health and Advocacy Track receives the Academic Pediatric Association’s Teaching Program Award, recognizing an outstanding general pediatric program. Programs must demonstrate excellence in educational teaching methods, acceptance by students and/or residents, acceptance by the community and the institution innovations and adaptability, or outstanding quality of the individuals trained in the program.

2017 Eileen Costello leads the development of the SOFAR clinic, an interdisciplinary and multi-generational clinic dedicated to caring for parents with substance use disorder and their infants affected by neonatal abstinence syndrome.

2017 With a $25 million donation, the Grayken Center for Addiction is established at BMC and Michael Botticelli named its executive director.

2019 Boston Medical Center receives nearly $90 million in federal funding to substantially reduce opioid-related deaths in Massachusetts communities. The hospital is one of four institutions selected to address the nation's opioid epidemic through funding.
People

Program Directors

Ted Sectish
Dr. Ted Sectish is Professor of Pediatrics, Vice-Chair for Education and Program Director of the pediatric residency training program at Boston Children’s Hospital. He came to Children’s and the BCRP from Stanford Medical School, where he directed the pediatric residency program for 14 years. Dr. Sectish, is a distinguished educator in pediatrics and the winner of many teaching awards. He obtained his MD degree from Johns Hopkins and was an intern and resident in pediatrics at Boston Children’s Hospital from 1977 to 1980. He spent 13 years as a general pediatrician in Salinas, California before becoming the program director at Stanford. Dr. Sectish has written extensively about residency education, including an article on making pediatric residency programs family friendly, an area of special interest to him (J Pediatr 149: 1-2, 2006). His interest in educational innovation and improvement spans the continuum from undergraduate medical education to graduate medical education and the professional development of practicing physicians. His recent focus is as one of the leaders of the I-PASS Study, a multi-site collaborative research project to standardize the handoff process to reduce medical errors and improve the workflow of residents (JAMA 2013; 310:2262-2270, N Engl J Med 2014; 371: 1803-1812). He was the Executive Director of the Federation of Pediatric Organizations (FOPO) from 2007-2014. FOPO serves the pediatric community with its Task Forces on Women in Pediatrics and Diversity and Inclusion and its Strategic Initiatives. It hosted a Visioning Summit in 2013 on the Future of the Workforce in Pediatrics. As the Past-President of the Association of Pediatric Program Directors, Dr. Sectish has been involved in national issues related to graduate medical education, including the formation of the Council of Pediatric Sub-specialties, which serves as a home for pediatric subspecialists and fellowship directors. He is a member of the American Pediatric Society. He is an Executive Council and Board member of the I-PASS Institute, which aims to improve patient safety and standardize communication in medicine.

Kate Michelson
Dr. Catherine Michelson is Program Director for the Boston Combined Residency Program at Boston Medical Center. She attended college at the University of Notre Dame and obtained her medical degree from the Johns Hopkins School of Medicine. She was a pediatric resident in the Boston Combined Residency Program (BCRP) from 2010-2013 and served as chief resident from 2013-2014 before joining the faculty at the Boston University School of Medicine as a hospitalist and Associate Program Director. She served as Co-Program Director from 2015-2016 and has served as Program Director since July 2016. Dr. Michelson earned a Master of Medical Sciences in Medical Education from Harvard Medical School and has been a scholar in the Harvard Macy Institute’s Programs for Educators in Health Professions and Leading Innovations in Health Care and Education. She has received awards for her teaching and is a faculty leader in the BCRP’s Academy of Medical Education. She designed and implemented the Keystone blocks, a longitudinal experience in outpatient pediatrics and advocacy in the BCRP. In 2015, Dr. Michelson led the residency program through a strategic planning process resulting in a revised mission and 5-year plan. Her areas of focus in education research include: the impacts of longitudinal integrated blocks and other structural innovations to training, resident assessment program evaluation, and advocacy training. She has a special interest in resident wellness and support. Dr. Michelson is a member of the Association for Pediatric Program Directors, the American Academy of Pediatrics and Alpha Omega Alpha. She, her husband Ken, who she met in residency and who is a pediatric emergency medicine physician at Boston Children’s Hospital, and their 1 year old daughter Ava live in Needham.
BOSTON COMBINED RESIDENCY PROGRAM

Residency Program Leadership

Gary R. Fleisher, MD
Physician-in-Chief & Chair, Dept of Pediatrics
Boston Children’s Hospital

Robert J. Vinci, MD
Chair, Dept. of Pediatrics
Boston Medical Center

Theodore C. Sectish, MD
Vice Chair for Education & Program Director
Boston Children’s Hospital

Catherine D. Michelson MD, MMSC
Program Director
Boston Medical Center

Thomas J. Sandora, MD, MPH
Assoc. Program Director
Boston Children’s Hospital

Ronald C. Samuels, MD
Assoc. Program Director
Boston Children’s Hospital

Carolyn H. Marcus MD
Assoc. Program Director
Boston Children’s Hospital

Ariel Winn, MD
Assoc. Program Director
Boston Children’s Hospital

Christine C. Cheston, MD
Assoc. Program Director
Boston Medical Center

Samuel E. Lux IV, MD
Director of Intern Selection
Boston Children’s Hospital

Celeste R. Wilson, MD
Assoc Chair, Intern Selection
Boston Children’s Hospital

Kenneth A. Michelson, MD
Assoc Chair, Intern Selection
Boston Children’s Hospital

Colin M. Sox, MD, MS
Chair, Intern Selection
Boston Medical Center

Clare Blomberg
Program Coordinator
Boston Children’s Hospital

Elayne Fournier
Program Coordinator
Boston Children’s Hospital

Jessica Angermer
Program Coordinator
Boston Children’s Hospital

Kate Gillis
Program Coordinator
Boston Medical Center
Interns and Residents

The Boston Combined Residency Program welcomes 47 new pediatric and 4 med-peds members of what promises to be one of the best classes in its history. The new interns come from 23 states and 15 countries, went to 37 different colleges and 33 different medical schools. They majored in nearly 34 diverse subjects including, in addition to a wide variety of biological sciences, anthropology, ecology, English, French, Latin American studies, global health, public policy, community health, international affairs, economics, political economy, chemical engineering, biomedical engineering, chemistry and mathematics. Twelve are PhDs or have PhD-like research experience, and four hold an MPH, MSc or MPhil. Nine of the new interns graduated from Harvard, three from Pennsylvania and Boston University, and two each came from Albert Einstein, Case Western Reserve, Johns Hopkins, Pennsylvania State, UCLA and Yale. Several schools, including Helsinki, Rutgers Robert Wood Johnson and Utrecht are new or relatively new to the BCRP.

Interns (Categorical Track)

Aaron Bowen, MD, PhD (Child Neurology)
- San Francisco, CA
- Univ. of California, Santa Cruz (Molecular Biology)
- University of Colorado School of Medicine
- PhD (Neuroscience)

Ross Carson, MD (Child Neurology)
- Grand Blanc, MI
- University of Michigan (Neuroscience & Evolutionary Biology)
- University of Pittsburgh School of Medicine

Kieley Chapman, MD
- Syracuse, NY
- Harvard University (Social Anthropology)
- Icahn School of Medicine at Mount Sinai

Colby Chiang, MD, PhD
- South Windsor, CT
- Dartmouth (Biolog)
- Univ. of Virginia School of Medicine Washington University, St Louis School of Medicine
- PhD (Molecular Genetics and Genomics)

Julia Cowenhoven, MD
- Concord, NH
- Northeastern University (Biology)
- University of Vermont School of Medicine

Patrick Davis, MD, PhD (Child Neurology)
- Wyndmoor, PA
- Brown Univ. (Biology)
- Tufts University School of Medicine
- PhD (Neuroscience)

Evida Dennis-Heyward, MD, PhD
- Mandeville, LA
- George Washington Univ. (Biological Anthropology)
- University Alabama School of Medicine
- PhD (Immunology)

Daniel (Dan) Echelman, MD, PhD
- Worcester, MA
- Princeton University (Chemistry)
- Columbia University Vagelos College of Physicians and Surgeons
- PhD (Cellular, Molecular & Biomedical Studies)

Michael Fishman, MD
- New Orleans, LA
- Swarthmore College (Neuroscience)
- University of Chicago Pritzker School of Medicine

Molly Greenshields, MD
- Seattle WA and Woodbury, MN
- University of Minnesota (Genetics, Cell Biology & Development)
- Boston University School of Medicine

Emily Harris, MD
- Westport, CT
- Duke University (Biology)
- Columbia University Vagelos College of Physicians and Surgeons

Katherine (Katie) Herman, MD, PhD
- Cincinnati, OH
- Univ. of Rochester (Neuroscience) and Eastman School of Music (Horn Performance)
- Rochester University School of Medicine
- PhD (Microbiology & Immunology)
Maximilian (Max) Horlbeck, MD, PhD
(Peds-Medical Genetics)
- Westfield, NJ
- Columbia Univ. (Biochemistry & Computer Science)
- University of California, San Francisco School of Medicine
- PhD (Biophysics)

Karina Javalkar, MD
- India ➔ Cary, NC
- University of North Carolina (Biology & Health Policy and Management)
- Univ. of North Carolina School of Medicine

Joan Li, MD
- Sydney, Australia
- Univ. of Pennsylvania (Biology & Economics)
- Perelman School of Medicine at the University of Pennsylvania

Kara Montbleau, MD
- Pelham, NH
- Middlebury College (International Politics & Economics)
- Boston University School of Medicine

Delia O’Shea, MD
- Hollis, NH
- Dartmouth (Neuroscience)
- Columbia University Vagelos College of Physicians and Surgeons

Lindsay Romo, MD, PhD
- Helena, MT
- MIT (Brain & Cognitive Sciences)
- University of Massachusetts School of Medicine
- PhD (Cell Biology)

, Alexandra Santana Almansa, MD
(Child Neurology)
- Guaynabo, PR.
- University of Puerto Rico-Rio Piedras (Cellular and Molecular Biology)
- University of Puerto Rico School of Medicine

David Imber, MD
- Medfield, MA
- Middlebury College (Classics)
- Perelman School of Medicine at the University of Pennsylvania

Lillian Juttukonda, MD, PhD
- Murfreesboro, TN
- Vanderbilt Univ. (Chemistry & Violin Performance)
- Vanderbilt University School of Medicine
- PhD (Microbiology & Immunology)

Ryan Louer, MD
(Ped Anesthesiology)
- West Milford, NJ
- Purdue University (Biochemistry)
- Indiana University School of Medicine

Maria Moustaqim-Barrette, MD
(Ped Anesthesiology)
- Brockville, ON, Canada
- McGill University (Pharmacology)
- McGill University School of Medicine

Danielle Rabinowitz, MD, MM
- Brookline, MA
- Harvard (History & Science) and New England Conservatory of Music (Masters, Music Composition)
- Harvard Medical School

Katherine (Kate) Rosengard, MD, MBA
- Natick, MA
- Dartmouth (Anthropology)
- Tufts University School of Medicine
- MBA, Brandeis University

Christine Shrock, MD
(Child Neurology)
- Stony Brook, NY
- Harvard University (Neurobiology)
- Johns Hopkins University School of Medicine

Magdelen (Maggie) Ivanova, MD
- Bulgaria ➔ Chicago, IL
- University of Chicago (Biology)
- Harvard Medical School

Rachel Korus, MD
- West Hartford, CT
- Tufts University (Psychology & Judaic Studies)
- Tufts University School of Medicine

Paul Michel, MD
- Charlottesville, VA
- University of Virginia (Mathematics & Spanish)
- Johns Hopkins School of Medicine

Jacklyn (Jackie) Omorodion, MD
(Peds-Medical Genetics)
- Newmarket, ON, Canada
- McMaster Univ. (Molecular Biology and Genetics)
- George Washington Univ. School of Medicine

Cory Rillahan, PhD, MD
- Andover, MA
- Tufts Univ. (Biochemistry)
- PhD: Scripps Research Institute (Chemical Biology)
- New York University School of Medicine

Maria Sacta, MD, PhD
- Ecuador ➔ Union City, NJ
- New Jersey City Univ. (Chemistry & Biology)
- Weill Cornell Medical School
- PhD (Immunology and Microbial Pathogenesis)

Geoffrey (Geoff) Smith, MD, PhD
- Weston, MA
- Harvard University (Chemistry)
- Univ of California, San Francisco Sch of Med
- PhD (Chemistry & Chemical Biology)
Blair Streater, MD, MEd
• Salisbury, NC
• Princeton (Ecology & Evolutionary Biology)
• Pennsylvania State University College of Medicine
• MEd (Education)

Kathryn (Kate) Sundheim, MD
• Clarks Summit, PA
• Amherst College (Chemistry)
• Columbia University Vagelos College of Physicians and Surgeons

Holly Wobma, MD, PhD
• Calgary, AB, Canada
• University of Calgary (Biomedical Sciences)
• Columbia University Vagelos College of Physicians and Surgeons
• PhD (Biomedical)

Interns (Urban Health and Advocacy Track)

Catherine Coughlin, MD
• Westport, CT
• Tufts University (Biology & Community Health)
• Albert Einstein College of Medicine

MaryKate Driscoll, MD
• Milton, MA
• Harvard University (Economics)
• University of Massachusetts School of Medicine

Katharine (Griffin) Gorsky, MD, MPH
• Portland, ME
• Stanford University (Human Biology)
• Univ. of California, San Diego School of Medicine
• MPH, Harvard (Health and Social Behavior)

Jasmyne Jackson, MD, MBA
• Southfield, MI
• University of Michigan (Neuroscience)
• University of Michigan Medical School
• MBA (Business Admin.)

Thomas (Tom) Kuriakose, MD
• Paramus, NJ
• Williams College (Biology & Economics)
• Rutgers, Robert Wood Johnson Medical School

Jamie Lim, MD
• Tokyo, Japan
• Boston University (Physiology)
• Boston University School of Medicine

Sabrina Karim, MD
• London, ON, Canada
• Yale (Cognitive Science)
• University of Pittsburgh School of Medicine

Anthony John (AJ) Mell, MBA, MD
• Oley Valley, PA
• Fairleigh Dickinson University (Biology)
• MBA, Fairleigh Dickinson
• Icahn School of Medicine at Mount Sinai

Alyssa Robinson, MD
• Fort Lauderdale, FL
• Tufts Univ. (Psychology and Child Development)
• Tufts University School of Medicine

Larissa Wenren, MD
• Tullahoma, TN
• Harvard University (Molecular and Cellular Biology)
• Boston University School of Medicine

Interns (Medicine-Pediatrics Track, Year 1)

Christopher Calahan, MD
• Darien, CT
• Bates College (Neuroscience)
• Harvard Medical School

Jacob Cedarbaum, MD
• Evanston, IL
• Harvard University (History & History of Art and Architecture)
• University of Michigan Medical School

Kaitlyn Shank, MD
• Hershey, PA
• Haverford College (Biology)
• Pennsylvania State University College of Medicine

Jessica Eby, MD
• Coatesville, PA
• Villanova University (Biochemistry & French and Francophone Studies)
• Perelman School of Medicine at the University of Pennsylvania
## Junior Residents (Categorical Track)

<table>
<thead>
<tr>
<th>Name</th>
<th>Country/Program</th>
<th>Institution(s)</th>
<th>Degree(s)</th>
<th>Subfield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mohsin Ali, MD, MPhil</td>
<td>Lahore, Pakistan&gt; Toronto, Canada</td>
<td>McMaster (Health Sciences), Icahn School of Medicine at Mount Sinai</td>
<td>MPhil, Univ. of Cambridge (Epidemiology and Biostatistics)</td>
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<tr>
<td>Patrick Asselin, MD (Child Neurology)</td>
<td>Rochester, NY</td>
<td>SUNY Genesco (Biology), Rochester Univ. School of Medicine and Dentistry</td>
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<tr>
<td>Anna Bakas, MD</td>
<td>Carmel, IN</td>
<td>Indiana Univ. (Human Biology), Indiana Univ. School of Medicine</td>
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<tr>
<td>Meera Basu, MD (Child Neurology)</td>
<td>Rochester, NY</td>
<td>SUNY Genesco (Biology), Rochester Univ. School of Medicine and Dentistry</td>
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<tr>
<td>Shannon Byler, MD</td>
<td>Calgary, AB, Canada</td>
<td>Washington State (Biomedical Engineering &amp; Mathematics), Boston University School of Medicine</td>
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</tr>
<tr>
<td>Wynne Callon, MD</td>
<td>Tokyo, Japan</td>
<td>Princeton Univ. (Public Policy &amp; International Affairs), Johns Hopkins Univ. School of Medicine</td>
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<tr>
<td>Longye (Lily) Cao, MD, PhD (Integrated Res. Path.)</td>
<td>China &gt; Bethesda, MD</td>
<td>Cornell Univ. (Biology), Albert Einstein College of Medicine</td>
<td>PhD (Biomedical Sciences)</td>
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<tr>
<td>Walter Chen, MD, PhD (Integrated Res. Path.)</td>
<td>New York City, NY</td>
<td>Princeton (Biochemistry), Harvard Medical School, PhD, Massachusetts Inst. of Technology (Biology)</td>
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<tr>
<td>Stephen, Chrzanowski, MD, PhD (Child Neurology)</td>
<td>Cleveland, OH</td>
<td>Cincinnati (Biomedical Engineering), Univ. of Florida College of Medicine, PhD (Physiology and Functional Genomics)</td>
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<tr>
<td>Lauren Sheidler Crafts, MD</td>
<td>Pennington, NJ</td>
<td>Georgetown (Human Science), Rutgers Robert Wood Johnson Medical School</td>
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<tr>
<td>Bonnie McKee Crume, MD</td>
<td>Abilene, KS</td>
<td>Washburn Univ (Biology), Univ of Kansas School of Medicine</td>
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<tr>
<td>Michael Duyzend, MD, MPhil, PhD (Ped-Medical Genetics)</td>
<td>Seattle, WA</td>
<td>Carleton (Chemistry &amp; Mathematics), Univ. of Washington School of Medicine</td>
<td>MPhil, Univ of Cambridge (Computational Biology), PhD (Genome Sciences)</td>
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<tr>
<td>Elizabeth (Lizzie) Ernstberger, MD</td>
<td>Birmingham, AL</td>
<td>Alabama - Tuscaloosa (Biochemistry &amp; Public Health), Univ. of Alabama School of Medicine, Birmingham</td>
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<tr>
<td>Katia Genadry, MD</td>
<td>Paris, France &gt; Beirut, Lebanon</td>
<td>American Univ. of Beirut (Biology)</td>
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<tr>
<td>Frank Gonzalez, MD</td>
<td>Las Vegas, NV</td>
<td>Univ. of Nevada, Reno (Biology), Harvard Medical School</td>
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<tr>
<td>Alexandra (Ally) Geanacopoulos, MD</td>
<td>North White Plains, NY &gt; Tucson, AZ</td>
<td>Harvard (Molecular &amp; Cellular Biology), Harvard Medical School, PhD (Biological and Biomedical Sciences)</td>
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<tr>
<td>Horace (Rhodes) Hambrick, MD</td>
<td>Norfolk, MA</td>
<td>Dartmouth (Biophysical Chemistry), Perelman School of Medicine at the Univ. of Pennsylvania</td>
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</tr>
</tbody>
</table>
Julia Hickey MD, CM
(Pediatric Anesthesia)
• Dover, MA
• Duke Univ. (French)
• McGill Univ. Faculty of Medicine

David Hoytema van Konijnenburg, MD, PhD
(Integrated Res. Path.)
• Naarden, Netherlands
• Univ Utrecht Faculty of Medicine
• PhD (Immunology)

Megan Mohnen Jablonski, MD
(Pediatric Anesthesia)
• Clintonville, WI
• Marquette Univ. (Biology)
• Medical College of Wisconsin

Rebecca (Becca) MacRae, MD
(Child Neurology)
• Sherborn, MA
• Massachusetts Inst. of Technology (Brain & Cognitive Sciences)
• Harvard Medical School

Katherine (Katie) Marcus, MD
• New Haven, CT
• Wesleyan (Neuroscience & Behavior)
• Johns Hopkins Univ. School of Medicine

Gareth Marshall, MD
• Boston, MA
• Washington Univ, St Louis (Anthropology)
• Boston Univ. School of Medicine

Kelly McCullagh, MD
• Pleasantville, NY
• Wellesley (English)
• Pennsylvania State Univ. College of Medicine

James Morrow, MD, PhD
(Integrated Res. Path.)
• Pittsburgh, PA
• Pennsylvania State (Biology)
• Case Western Reserve Univ. School of Medicine
• PhD (Pathology)

Silvia Nastasio, MD
• Torino, Italy
• Univ. of Pisa
• 5-yr Pediatric Residency (Univ. of Pisa)

Maria Niccum, MD, MSc
• Cluj-Napoca, Romania > Eldersburg, MD
• Duke (Chemistry)
• Univ. of Virginia School of Medicine
• MSc (Pharmacology)

Amy O’Brien, MD
(Pediatric Anesthesia)
• Dublin, Ireland > San Diego, CA
• Brown Univ. (Immunology)
• Harvard Medical School

Netanya (Tani) Pollock, MD
• Wheeling, WV
• Columbia (Neuroscience & Behavior)
• Univ. of Pittsburgh School of Medicine

Alireza (Ali) Raissadati, MD, PhD
(Accelerated Res. Path.)
• Helsinki, Finland
• Univ of Helsinki Faculty of Medicine
• PhD (Biological and Environmental Sciences)
• PhD (Clinical Research)

Kelly Roelf, MD
• Iowa City, IA
• Humbolt State (Cellular & Molecular Biology)
• Univ. of California, Los Angeles David Geffen School of Medicine

Robert (Bobby) Rosen, MD
• New York City
• Univ. of California, Berkeley (Political Economy)
• Yale School of Medicine

Jessica Ruiz, MD
• Austin, TX
• Rice (Bioengineering)
• Harvard Medical School

Aaida Samad, MD
• Fremont, CA
• Univ of California, Berkeley (Molecular & Cell Biology)
• Case Western Reserve Univ. School of Medicine

Margaret (Maggie) Cochran Savage MD
(Child Neurology)
• Dedham, MA
• Harvard (Psychology)
• Harvard Medical School

Sarah Schlegel, MD
• Auburndale, MA
• Harvard (Organismal & Evolutionary Biology)
• Stanford Univ. School of Medicine

Anna Sheridan, MD
(Pediatric Anesthesia)
• Lexington, MA
• Rensselaer Polytechnic Institute (Biology)
• Albany Medical College
Rachel Stadelmaier, MD  
- Midland, MI  
- Michigan (Ecology & Evolutionary Biology)  
- Albert Einstein College of Medicine

Christina Williams, MD  
(Pediatric-Anesthesia)  
- St Louis, MO  
- Washington Univ St Louis (Spanish & Anthropology)  
- Stanford Univ School of Medicine

Zachary (Zach) Winthrop, MD  
- Philadelphia, PA  
- Lafayette (Biology)  
- Pennsylvania State Univ. College of Medicine

Benjamin (Ben) Zielonka, MD  
- Lower Merion, PA  
- Washington Univ, St Louis (Latin American Studies)  
- Perelman School of Medicine at the Univ. of Pennsylvania

Junior Residents (Urban Health and Advocacy Track)

Beverly Aiyanyor, MD  
- Bronx, NY  
- Pennsylvania (Health & Societies)  
- Northwestern Univ., Feinberg School of Medicine

Katelin Blackburn, MD  
- Buffalo, NY  
- Boston Univ. (Human Physiology)  
- Boston Univ. School of Medicine

Lawrence Chang, MD  
- Taiwan > Irvine, CA  
- Princeton (Chemical and Biological Engineering)  
- Perelman School of Medicine at the Univ. of Pennsylvania

Erin Elbel, MD  
- Albuquerque, NM > Bitburg, Germany  
- Univ. Texas, Austin (Biology)  
- Columbia Univ. College of Physicians and Surgeons

Rohini Jain, MD  
- Fremont, CA  
- Univ. of California, Los Angeles (Microbiology, Immunol & Mol Genetics)  
- Univ. of California, Davis School of Medicine

Nikita Saxena Kalluri, MD  
- New Providence, NJ  
- Tufts (Biomedical Engineering)  
- Boston Univ. School of Medicine

Colleen Kelly, MD  
- Western Springs, IL  
- Notre Dame (Economics)  
- Univ. of Chicago Pritzker School of Medicine

Sagar Mehta, MD  
- Cherry Hill, NJ > Orlando, FL  
- Duke (Public Policy & Global Health)  
- Washington Univ, St Louis School of Medicine

Kristan Scott, MD  
- Miami, FL  
- Princeton (Molecular Biology)  
- Harvard Medical School

Nitin Shrivastava, MD, MPH  
- Dehradun, India > Singapore > Westbrook, MA  
- Tufts (Biochemistry & Community Health)  
- Univ. of Massachusetts Medical School  
- MPH (Health Management), Harvard School of Public Health

Eliza Szuch, MD  
(Child Neurology)  
- Dover, MA  
- Wake Forest (French)  
- Wake Forest School of Medicine
BOSTON COMBINED RESIDENCY PROGRAM

Junior Residents (Medicine-Pediatrics Track, Year 2)

Lao-Tzu (Lao) Allan-Blitz, MD
- Santa Barbara, CA
- New York Univ. (Interdisciplinary Studies)
- Univ. California, Los Angeles School of Medicine

Yannis Valtis, MD
- Thessaloniki, Greece
- Harvard (Human Development & Regenerative Biology)
- Harvard Medical School

Colin Martz, MD
- Albuquerque, NM
- Duke (Neuroscience)
- Duke Univ. School of Medicine

Ronnye Rutledge, MD, MHS
- Fort Wayne, IN
- Harvard (Human & Evolutionary Biology)
- Yale Medical School
- MHS (Medicine)

Junior Residents (Medicine-Pediatrics Track, Year 3)

Mariel Bailey, MD, MEd
- Newport, RI
- Stanford Univ. (Human Biology)
- Univ. of California, Los Angeles
- MEd, Lehman College

Emily Murphy, MD
- Beverly, MA
- Brown Univ. (Neuroscience)
- Johns Hopkins Univ. School of Medicine

Neha Limaye, MD
- Westfield, NJ
- Duke University (Global Disease Control)
- Perelman School of Medicine at the Univ of Pennsylvania

Ian McConnell, MD
- Boothbay, ME
- Harvard College (Government)
- Yale Medical School

Senior Residents (Categorical Track)

Lukman Abdurrahim, MBBS
- Jos, Nigeria
- Ahmadu Bello Univ.
- Pediatrics residency and chief resident, Hamad Medical Corp, Qatar
- Pediatric Infectious Diseases fellowship, Boston Medical Center

Gina Aloisio, MD, PhD
- Chillicothe, OH
- Ohio State Univ. (Spanish & Biomedical Sciences)
- Univ. Texas Southwestern School of Medicine
- PhD (Pathology)

Cynthia Akagbosu, MD, MMS
- London, England > Tampa, FL
- Dartmouth College (Spanish and Psychology)
- Tufts Univ. School of Medicine
- MMS (Medical Science), Boston Univ.

Faraz Alizadeh, MD
- Oklahoma City, OK
- Univ. California, Los Angeles (Biological & Physiological)
- Albert Einstein College of Medicine

Daniel (Danny) Atwood, MD
- Minnetonka, MN
- Univ. of Kentucky (Biology)
- Medical College of Wisconsin

Amanda Bryson, MD
- Medway, MA
- Univ. of Maryland (Biology & Spanish)
- Pennsylvania State Univ. College of Medicine
Hamsika Chandrasekar, MD
- Sugarland, TX
- Massachusetts Institute of Technology (Brain & Cognitive Sci & Computer Science & Molecular Biol)
- Stanford Univ School of Medicine

Anna Cushing, MD
• Washington, DC
• Stanford Univ.
  (Biomedical Computation)
• Icahn School of Medicine at Mount Sinai

Kelly Fitzgerald, MD
• Sudbury, MA
• Harvard College
  (Neurobiology)
• Warren Alpert School of Medicine at Brown Univ.

Caroline Gross, MD
(Rising Chief Resident)
• Los Angeles, CA
• Cornell Univ. (Biology & Society)
• Univ. of California, Los Angeles School of Medicine

Clara Hildebrandt, MD
(Ped-Medical Genetics)
• Freiberg, Germany > Ann Arbor, MI
• Univ. of Michigan
  (Neuroscience)
• Wayne St School of Med

Robert Hoffmann, MD
• Nuremberg, Germany
• Ludwig Maximilians Univ.
  Munich Faculty of Medicine

Alexander (Alex) Holtz, MD, PhD
(Ped-Medical Genetics)
• Fairfield, CT
• Cornell Univ. (Biology)
• Univ. of Michigan School of Medicine
• PhD (Cell Dev Biology)

Hadas Ityel, MD
• Tel Aviv, Israel
• Tel Aviv Univ (Life Sciences Honors Prog.)
• Sackler School of Medicine, Tel Aviv Univ.

Shawn Jackson, MD, PhD
(Pediatric Anesthesia)
• Tucson, AZ
• University of Arizona
  (Cellular & Molec Biology and Political Science)
• University of Wisconsin School of Medicine
• PhD (Cell & Molec Biol)

Jenna Katz, MD
• Plainview, NY
• Univ of Pennsylvania (Biol Basis of Behavior)
• Stanford Univ. School of Medicine

Jia Liu, MD
(Pediatric Anesthesia)
• China > Charlottesville, VA
• University of Virginia
  (Biology)
• Yale University School of Medicine

Matthew (Matt) Luchette, MD
• Burr Ridge, IL
• Massachusetts Institute of Technology (Biological Engineering)
• Boston Univ, School of Medicine

Amanda Marinoff, MD
• Plainview, NY
• Dartmouth College
  (Neuroscience)
• Harvard Medical School

Mariana Marques, MD
• Brazilia, Brazil
• University of Brazilia
• Pediatric residency at Univ. of São Paulo

Kailyn Kuzmuk McDermott, MD
• Tinley Park, IL
• Harvard College
  (Psychology)
• Tufts Univ. School of Medicine

Caitlin Milligan, MD, PhD
• Lexington, KY
• Duke Univ. (Biology & Global Health)
• Univ. of Washington School of Medicine
• PhD (Pathobiology)

Carolina Montaña, MD, PhD
• Barranquilla, Colombia > Miami, FL
• Brigham Young Univ.
  (Neuroscience & Molecular Biology)
• Johns Hopkins Univ.
  School of Medicine
• PhD (Genetics)

Sinead Murphy, MD
• Rochester, MN
• Amherst College (History & Chemistry)
• Mayo Medical School
Senior Residents (Urban Health and Advocacy Track)

**Chloë Nunneley, MD**  
(Child Neurology - BCH)  
- Buffalo, NY > New Zealand > College Station, TX  
- Texas A&M (Biochemistry)  
- Baylor College of Medicine

**Supriya Suresh, MBBS**  
- Devangere, India  
- JSS Medical College, Mysore, India  
- Pediatric residency, Govt Medical College of Surat, Gujarat, India,

**David (Dave) Vanderhoff, MD**  
- Stow, MA  
- Dartmouth College (Government & Environmental Studies)  
- Univ of Washington School of Medicine

**Milad Rezvani, MD, Dr med**  
- Hannover, Germany  
- Albert Ludwigs Univ. Freiburg Germany Medical School  
- Dr med (Genetics/Neonatology)

**Caroline Smith, MD**  
- Dallas, TX  
- Stanford Univ. (Biology)  
- Univ. of Texas Southwestern School of Medicine

**Christina Theodoris, MD, PhD**  
(Ped-Medical Genetics)  
- Alpharetta, GA  
- California Institute of Technology (Biology)  
- Univ of California, San Francisco  
- PhD (Dev Stem Cell Biol)

**Michaela Tracy, MD**  
- Needham, MA  
- Georgetown Univ. (Biology & Psychology)  
- Univ. of Massachusetts School of Medicine

**Supriya Suresh, MBBS**  
- Devangere, India  
- JSS Medical College, Mysore, India  
- Pediatric residency, Govt Medical College of Surat, Gujarat, India,

**Kimiko (Kimi) Warlaumont, MD**  
(Rising Chief Resident)  
- Mt Kisko, NY  
- College of William & Mary (Neuroscience & Studio Art)  
- Univ of Michigan School of Medicine

**Mollie Wasserman, MD**  
(Rising Chief Resident)  
- St Louis, MO  
- Washington Univ., St Louis (Biology)  
- Univ of Missouri-Columbia School of Medicine

**Brenna (Hughes) Chase, MD**  
(Rising Chief Resident)  
- Boston, MA  
- Dartmouth College (Economics & Environmental Studies)  
- Univ. of Chicago Pritzker School of Medicine

**Suzanne Collier, MD**  
- Potomac, MD  
- Colgate Univ. (Psychology)  
- Univ. of Michigan School of Medicine

**Genevieve (Gen) Guyol, MD**  
- St Louis, MO  
- Middlebury College (Spanish & History)  
- Boston Univ. School of Medicine

**Jeremiah Joyce, MD**  
- Jackson, MI  
- Vassar College (German & Film Studies)  
- Stony Brook Univ. School of Medicine

**Cody-Aaron (Cody) Gathers, MD**  
- Goose Creek, SC  
- Clemson Univ. (Biochemistry)  
- Medical Univ. of South Carolina

**Perry Nagin, MD, MEd**  
- Manhattan, NY  
- Princeton Univ. (Sociology)  
- MEd, Hunter College  
- Sidney Kimmel Medical College at Thomas Jefferson Univ.
Alexandra (Alex) PowerHays, MD  
- Tallahassee, FL  
- Emory Univ. (Biology)  
- Harvard Medical School

Daniel (Dan) Zheng, MD, MHS  
- Barrington, RI  
- Yale Univ (Psychology)  
- Yale School of Medicine  
- MHS (Health Science)

Tyler (Tye) Rainer, MD  
(Rising Chief Resident)  
- Marlborough, MA  
- Williams College (Psychology)  
- Lewis Katz School of Medicine at Temple Univ.

Lauren Sweetser, MD, MMS  
- Holliston, MA  
- Middlebury College (French & Biology)  
- Boston Univ. School of Medicine  
- MMS (Medical Science)

Senior Residents (Medicine-Pediatrics Track, Year 4)

Peter Dunbar, MD  
(Med-Peds Chief Resident)  
- Oxford, MS  
- Princeton Univ. (Chemistry)  
- Univ. of Pennsylvania School of Medicine

Erica Pimenta, MD, PhD  
- Rahway, NJ  
- Rutgers Univ. (Molecular Biology and Biochemistry)  
- Rutgers Univ. New Jersey School of Medicine  
- PhD (Biochemistry)

Jennifer (Jenna) Schulte, MD  
- Burr Ridge, IL  
- Univ. of Notre Dame (Anthropology)  
- Chicago Univ. School of Medicine

Stephen Tsaur, MD  
- Lexington, MA  
- Carnegie Mellon Univ. (Chemical and Biomedical Engineering)  
- Univ. of Pennsylvania School of Medicine

Chief Residents (Boston Children’s Hospital)

Emily Cross, MD  
- New York, NY  
- Harvard College (Biology)  
- Univ. of Pennsylvania School of Medicine

Avital Ludomirsky, MD, MPP  
- Ann Arbor, MI ➔ St Louis, MO  
- Princeton Univ. (Public and International Affairs)  
- NYU School of Medicine  
- MPP, Princeton (Public and International Affairs)

Destiny Tolliver, MD  
- Albany, GA  
- Yale University (Linguistics)  
- Morehouse School of Medicine

Chief Residents (Boston Medical Center)

Yuan He, MD, MPH  
- Tempe, AZ  
- Yale Univ. (Molecular Biochemistry & Biophysics)  
- University of Arizona College of Medicine  
- MPH (Public Health)

Daria Murosko, MD, MPH  
- Columbia, MD  
- Univ. of Maryland (Biochemistry)  
- Univ. of Pennsylvania School of Medicine  
- MPH (Public Health)
Boston Children’s Hospital Department of Pediatrics
Organization and Faculty Leadership

Gary R. Fleisher, MD
Physician-in-Chief and Chair of Pediatrics
Boston Children’s Hospital

Frederick H. Lovejoy Jr., MD
Vice Chair for Academic Affairs and Associate Physician-in-Chief

Joseph A. Majzoub, MD
Vice Chair for Research

Vincent W. Chiang, MD
Vice Chair for Finance

Theodore C. Sectish, MD
Vice Chair for Education and Residency Program Director

Alan M. Leichtner, MD
Vice Chair for Clinical Services

Anne M. Stack MD
Vice-Chair for Quality and Outcomes

Ronald C. Samuels, MD
Associate Program Director for Residency Training

Carolyn H. Marcus, MD
Associate Program Director for Residency Training

Emily Cross, MD
Chief Resident

Destiny Tolliver, MD
Chief Resident

Divisions and Programs

Adolescent Medicine
Clinical Translational Study Unit
Developmental Medicine
• ASAP (Adol Substance Abuse Prog)
Emergency Medicine
• Clinical Emergency
• Clinical Toxicology (Poison Center)
Endocrinology
• Clinical Endocrinology
• Diabetes Program
• Neuroendocrinology
Gastroenterology and Nutrition
• Clinical Gastroenterology
• Clinical Nutrition
General Pediatrics
• Children’s Hospital Inpatient Service
• CHPCC (Primary Care)
• Clinical Effectiveness
• Coordinated Care Service
• Environmental Medicine
• Family Develop’t Unit (Child Abuse)
• Martha Eliot Health Center
Genetics & Genomics
• Clinical Genetics
• Metabolism
• Hematology/Oncology
• Clinical Hematology
• Stem Cell Transplantation
Immunology
• Allergy
• Dermatology
• Immunology
• Clinical Rheumatology
Infectious Diseases
• Clinical Infectious Diseases
Interdepartmental Programs
• Bioinformatics
• Cellular and Molecular Medicine
• Stem Cell Biology
Medical Critical Care
Molecular Medicine
Neonatology
• at Boston Children’s Hospital
• at Beth Israel Deaconess Hospital
• at Brigham and Women’s Hospital
Nephrology
• Clinical Nephrology
Pulmonary Medicine
• Clinical Pulmonology
• Ina Sue Perlmutter Laboratory

Catherine Gordon, MD
Andrew Place, MD, PhD
William J. Barbaresi, MD
Sharon J. Levy, MD
Richard G. Bachur, MD
Jason A. Levy, MD
Michele M. Burns, MD
Joel N. Hirschhorn, MD, PhD
Laurie E. Cohen, MD
Joseph I. Wolfsdorf, MB, BCh
Wayne Lencer, MD
Athos Bousvaros, MD
Christopher P. Duggan, MD, MPH
Christopher P. Landrigan, MD
Vincent W. Chiang, MD
Joanne E. Cox, MD
Jonathan A. Finkelstein, MD
Sangeeta Mauskar, MBBS
Alan D. Woolf, MD, MPH
Celeste R. Wilson, MD
Alex Epee-Bounya, MD
Christopher A. Walsh, MD
Olaf Bodamer, MD, PhD
Gerard T. Berry, MD

David A. Williams, MD
Matthew M. Heeney, MD
Leslie Kean, MD, PhD
Raf S. Geha, MD
Hans C. Oettgen, MD, PhD
Stephen E. Gellis, MD
Hans C. Oettgen, MD, PhD
Mary Beth Son, MD
Dennis Kim, MD, PhD
Tanvi Sharma, MD
Kenneth D. Mandl, MD
Frederick W. Alt, PhD
Leonard I. Zon, MD
Michael S. D. Agus, MD
Stephen C. Harrison, PhD
Stella Kourembanas, MD
Anne R. Hansen, MD
DeWayne M. Pursley, MD
Terrie E. Inder, MD, MB ChB
Friedhelm Hildebrandt, MD
Michael J. Somers, MD
Debra Boyer, MD
Benjamin A. Raby, MD, MPH
Benjamin A. Raby, MD, MPH
BOSTON COMBINED RESIDENCY PROGRAM

Boston Medical Center Department of Pediatrics
Organization and Faculty Leadership

Robert J. Vinci, MD
Chief of Pediatrics, Boston Medical Center
Chair, Department of Pediatrics, Boston University School of Medicine

John S. (Jack) Maypole, MD
Vice Chair for Population Health and Practice Transformation

Sharon E. O’Brien, MD
Vice Chair for Acute Care and Subspecialty Services

Catherine D. Michelson, MD, MMSc
Residency Program Director

Scott E. Hadland, MD, MPH
Associate Program Director

Yuan He, MD
Chief Resident

Divisions and Programs

Ambulatory Service
- Adolescent Medicine
- Continuity Care Clinic
- Lead Clinic
- Pediatric Primary Care
- Substance Abuse Program
- Transgender Program

Behavioral Health

Cardiology

Children’s Services
- Inpatient Pediatric Unit
- Neonatal Intensive Care Unit
- Normal Newborn Nursery
- Pain Program
- Pediatric Intensive Care Unit

Child Protection Program

Community Pediatrics

Developmental and Behavioral Peds
- Child Witness to Violence Program
- Comprehensive Care Program
- Developmental Assessment Clinic
- Good Grief Program
- Grow Clinic
- Primary Care Enrichment Program
- Reach Out and Read
- School Achievement Clinic

Eileen Costello, MD
Julie Potter, MD, MPH
Melissa Nass, MD
Sean Palfrey, MD
Eileen Costello, MD
Sara Bagley, MD
Mandy Coles, MD, MPH
Lisa Fortuna, MD
Sharon O’Brien, MD
Jack Maypole, MD and Sharon O’Brien, MD
Elizabeth Hutton, MD
Vincent, Smith MD, MPH
Bobbi Philipp, MD
Caitlin Neri, MD
Kate Madden, MD
Kim Schwartz MD, MPH
Claudio Morera, MD
Marilyn Augustyn, MD
Neena McCornico, PhD
Jack Maypole, MD
Marilyn Augustyn, MD
Maureen Patterson, MSW, LICSW
Deborah Frank, MD
Deborah Frank, MD
Eileen Costello, MD
Naomi Steiner, MD

Emergency Medicine
- Clinical Simulation

Endocrinology

Gastroenterology and Nutrition

General Pediatrics
- Academic Fellowship
- Center for the Urban Child

Genetics

Health Leads

Hematology/Oncology

Infectious Diseases
- HIV Program
- Refugee Health

Medical Student Teaching

Neurology
- Neuroepilepsy Program
- Neurophysiology Program

Neurosurgery

Ophthalmology

Orthopedics

Otolaryngology

Pediatric Surgery

Pediatrics Weight Management Prg

Pulmonary Medicine

Rheumatology

David H. Dorfman, MD
Barbara Walsh, MD
Suleiman Mustafa-Kutana, MD
Claudio Morera, MD
Michael Silverstein, MD
Caroline Kistin, MD MSc
Megan Bair Merritt, MD MPH
Jodi Hoffman, MD
Jessie Odegard, MSW
Amy Sobota, MD
Elizabeth Barnett, MD
Ellen Cooper, MD
Elizabeth Barnett, MD
Rachel Thompson, MD
Laurie Douglas, MD
Mandeep Rana, MD
Rinat Jones, MD, Ph.D
James Holsapple, MD
Steven Christiansen, MD
T. Desmond Brown, MD
Jessica Levi, MD
Catherine Chen, M.D
Carine Lenders, MD
Robyn Cohen, MD, MPH
Ezra Cohen, MD
Facilities

Statistics

- 415 beds (~50% medical)
  - 30 bed medical-surgical ICU
  - 29 bed cardiac ICU
  - 24 bed neonatal ICU
  - 22 bed medical ICU
  - 12 bed intermediate care ICU
  - 13 bed stem cell transplantation unit
  - 6 bed clinical research center
- 25,000 inpatient admissions
- 27,532 surgical procedures
  - 2,000 cardiac cath procedures
- 646,503 outpatient visits
  - 268 specialized clinical programs
  - 60,425 emergency department visits
- 2,320 active medical and dental staff
- 3,000+ scientific staff
- 3,065 nurses
- 34 languages spoken by patients

Boston Children’s Hospital

Boston Children’s Hospital is one of the largest pediatric hospitals in the United States, and a major teaching facility of Harvard Medical School. Founded in 1869 as a 20-bed hospital for children, it is now a comprehensive medical center for pediatric and adolescent health care, dedicated to excellence in patient care, teaching and research.

There are 404 inpatient beds distributed on five floors in the Main hospital building, Main South, and the new state-of-the-art Mandell building. At present, construction is well underway on a new inpatient tower that will bring the bed total to approximately 500 and eliminate the few, remaining double rooms. The hospital contains a 29-bed multidisciplinary intensive care unit, 16-bed medical intensive care unit, 24-bed neonatal intensive care unit, 26-bed cardiac intensive care unit, 12-bed intermediate care unit, 13-bed bone marrow transplantation unit and six-bed clinical research center (called the Institutional Centers for Clinical and Translational Research at Children’s). Children’s has physician services agreements for inpatient pediatrics, emergency medicine and/or newborn medicine at Beverly Hospital, Charlton Memorial Hospital, Milford Hospital, St Luke’s Hospital, South Shore Hospital, Tobey Hospital and Winchester Hospital.

There are more than 100 outpatient programs ranging from primary care to a wide variety of specialty programs. Outpatient facilities include an 11-story building for ambulatory services, the Adolescent/Young Adult Program, Children’s Hospital Primary Care at Longwood, and Martha Eliot Health Center, an affiliated neighborhood health center. In addition, outpatient services are provided at Children’s satellite centers or physician offices in

The green-domed Hunnewell building is the architectural signature of Boston Children's
BOSTON COMBINED RESIDENCY PROGRAM

Brockton, Lexington, Milford, North Dartmouth, Peabody, Waltham, Weymouth and Worcester Massachusetts.

Hunnewell Building
This famous "green-domed" building with its classic columned facade on Longwood Ave was built in 1914 and is the oldest building in the Children's complex. To many it is the symbol of the institution. Today, it mostly houses administrative offices, including the Dept. of Pediatrics, offices, which are located on the 2nd floor. The copper dome covers an internal atrium. It was reclad about 20 years ago and is only beginning to recover its verdigris hue.

Main South
Children's opened this 11-story clinical building in 2005. An extension of the hospital's existing Main Building, Main South gives clinicians access to cutting-edge technology while carving out more room for patients and families. The building includes cardiac, medical and multidisciplinary ICU beds, a medical intermediate care unit, a cardiac catheterization lab, inpatient echocardiography, medical and surgical patient beds, operating rooms, interventional radiology space and administrative office space.

Mandell Building
This 10-story state-of-the-art clinical building opened in 2013. It contains much needed expansion space for the Emergency, Radiology, Surgery, Neurology, and Pharmacy services. There are four floors of single bed inpatient rooms that align with floors in the existing hospital, new 'short stay beds', and a neuroimaging suite with additional MRI, magnetoencephalography, functional MRI, and near infrared imaging tools.

Fegan Building
This 12 story building sits in the middle of the Children's campus, between the Hunnewell building and the Main Hospital, and houses Children's ambulatory programs and many clinician's offices.

Enders and Karp Research Laboratories
The 13-story John F. Enders Laboratories for Pediatric Research, named for the Nobel Prize recipient who cultured the polio and measles viruses; the 12-story state-of-the art Karp Family Research Laboratories; and a portions of the neighboring buildings: Center for Life Science Boston, Harvard Institute of Medicine, and Warren Alpert Building at HMS, add up to more than 1,000,000 square feet of research space. These buildings contain basic scientists and physician investigators in virtually every specialty, more than 1,100 in all. The hospital faculty includes 8 members of the National Academy of Sciences, 21 members of the National Academy of Medicine, 23 Fellows of the American Academy of Arts and Sciences, and 10 members of the Howard Hughes Medical Institute and a level of research that rivals the very best research institutes in the world. Funding for research at Boston Children's Hospital equals $368 million and is greater than all other pediatric hospitals in the United States.

Boston Children's Hospital is also a leader in clinical research and has recently doubled clinical research space with the acquisition of a new building near the hospital. The clinical research program has extensive support services, including biostatisticians, epidemiologists, database programmers, data coordinators and clinical research coordinators who provide consultation to clinical investigators. The hospital also has one of the oldest and largest NIH-funded clinical research centers (called the Institutional Centers for Clinical and Translational Research at Children's) in the country.
Boston Children's Hospital is the primary pediatric program of Harvard Medical School, which is located next to the hospital. All faculty hold academic appointments at the medical school. There are more than 3000 Harvard Medical School faculty affiliated with Boston Children’s Hospital.

Children’s Hospital and Harvard Medical School are part of a larger, roughly 20 square block campus called the Longwood Medical Area. Children’s sits in the center of this area, next to the Brigham and Women's Hospital, Beth Israel Deaconess Medical Center and the Dana-Farber Cancer Institute, as well as Harvard Medical School, and within a block of the Joslin Diabetes Center, the Massachusetts College of Pharmacy, the Harvard School of Public Health, and the Harvard School of Dental Medicine. Some members of the staff are also staff members at one of these neighboring institutions.

Boston Children’s Hospital participates in numerous cooperative programs. It is a partner in Neonatology with Brigham and Women’s Hospital and Beth Israel Deaconess Medical Center. It is the headquarters of the New England Regional Infant Cardiac Program, the site of the Massachusetts Poison Control System, a partner in the Dana-Farber/Boston Children’s Cancer and Blood Disorders Center with Dana-Farber Cancer Institute and a partner in the Joint Program in Gastroenterology and Nutrition with Massachusetts General Hospital across town. Several surgical departments are joint programs with the Brigham and Women's Hospital.
In July 1996, Boston City Hospital, Boston Specialty and Rehabilitation Hospital, and Boston University Medical Center merged to form Boston Medical Center (BMC). Through its partnership with Boston University School of Medicine and Boston Health Net neighborhood health centers, BMC continues the mission set forth by Boston City Hospital more than 125 years ago—to provide medical care to the residents of Boston. Last year, the Department of Pediatrics at BMC provided care to more than 2,000 pediatric inpatients, 63,000 outpatients, and 24,000 patients in the emergency department. The neighborhood health centers, which provide continuity clinic sites for house officer training, contribute an additional 110,000 ambulatory visits each year to the program. Boston Health Net reflects our commitment to Community Care by combining BMC with 13 community based health centers into an integrated service delivery network, and starting in March 2018 BMC joined as a leader in the Boston Accountable Care Organization (BACO).

**Statistics**
- 493 total beds
  - 22 pediatric inpatient beds
  - 30 bed newborn nursery
  - 21 bed neonatal ICU
  - 4-6 bed pediatric ICU
- 2,000 inpatient admissions
- 2,850 deliveries
- 63,000 outpatient visits
- 24,000 emergency department visits

**Inpatient and Outpatient Facilities**
This building opened in January 1994. There is a newly renovated 22-bed pediatric unit, a 4 to 6-bed pediatric intensive care unit, a 30-bed normal newborn nursery, and a brand new, state-of-the-art 21-bed level III neonatal intensive care unit with single rooms for newborns and mothers. There are approximately 2,850 deliveries each year, 40 percent of which are high risk. There are 25 outpatient programs including primary care, adolescent medicine, pediatric cardiology, pulmonology, gastroenterology, allergy and immunology, rheumatology, nutrition, developmental behavioral pediatrics, genetics and a variety of specialty programs, many of which are directed towards health care issues of urban children due to poverty. Examples of this include: the GROW Clinic, an outpatient subspecialty clinic founded in 1984 to provide comprehensive medical, nutritional, developmental and social services and dietary assistance to children with failure-to-thrive that in addition to providing care advocates for policies to decrease the number of children in need; an integrated mental and behavioral health clinic; an IEP specialty clinic; and the SOFAR clinic, a multigenerational clinic for mothers with substance use disorders and their infants.

**Shapiro Ambulatory Care Building**
In April 2011 BMC hosted the grand opening of the Carl J. and Ruth Shapiro Ambulatory Care Center, the hospital's new state-of-the-art facility for outpatient services. The 250,000 square foot, nine-story building allows consolidation of clinical programs and a standard of care delivery that maximizes patient comfort and operation efficiency.
Yawkey Ambulatory Care Center
Home to all Ambulatory Care Programs at BMC, the Pediatric Department Programs are located on the fifth floor of the Yawkey Ambulatory Care Center Building. Residents who select BMC as their continuity practice site will be based here at BMC. The Department of Pediatrics provides extensive services to its patients in this ambulatory site, including a food pantry, clinic-based literacy program (Reach Out and Read) and specialized Health Services screening for our patients and their families (Project Health Help Desk).

Maxwell Finland Laboratory
The Maxwell Finland Laboratory for Infectious Diseases, named for the world-renowned investigator of bacterial diseases and antibiotics, houses the laboratories of the divisions of pediatric infectious diseases, immunology, pulmonary, and molecular biology. Research in these laboratories focuses on problems of urban children.

Isadore Talbot Building
The Talbot Building demonstrates the beautiful architecture of turn-of-the-century Boston. It was the original site of the Massachusetts Memorial Hospital (predecessor to BMC) and is now renovated on the BMC campus and is the site of the Boston University School of Public Health.

Moakley Cancer Care Building
With the November 2006 opening of the Moakley Building, Boston Medical Center had reached its goal of providing a best-in-class, centralized cancer and ambulatory care facility that embodied the commitment to provide exceptional care. Named in honor of the late Congressman John Joseph Moakley, a devoted champion of BMC, the building was designed to streamline care by consolidating the diagnostic and cancer treatments that were scattered across the 16-square-block Medical Campus. The latest equipment and technology supplement the services offered, including the diagnosis and treatment of cancer and digestive and otolaryngology disorders, a breast health center, and an ambulatory surgery center.
Boston University School of Medicine (BUSM) is located in the historic South End of Boston and shares a campus with Boston Medical Center Hospital, the School of Public Health, the Goldman School of Dental Medicine, the Solomon Carter Fuller Mental Health Center, and the Boston Public Health Commission. This campus hosts approximately 700 medical students, along with 550 School of Public Health students, and nearly 1000 graduate students receiving master’s degrees and doctorates, as well as nearly 1800 full-time and part-time faculty members. Besides the 4-year MD program, there are a number of dual degree options and students may earn a combined MD/PhD, MD/MPH, or MD/MBA.

Boston University School of Medicine began as the New England Female Medical College, which opened in 1848 as the first institution in the world to offer medical education to women. In 1873, the college merged with Boston University, becoming the first coeducational medical school. Throughout its history BUSM has maintained a strong commitment to the study and practice of medicine in the context of a mission of service to society. In addition, BUSM is a major research institution with over 600 funded research programs and more than 1,000 active clinical trials, providing an exceptional environment for students interested in basic science, clinical investigation, or public health and health services oriented research. Students may also participate in international health programs and a variety of professional and social service activities.

BUSM is distinguished by its programs in cardiovascular diseases, cancer, pulmonary disease, human genetics, dermatology, arthritis, geriatrics, Alzheimer’s disease, Parkinson’s disease, public health, law and medicine, and medical ethics, among others. Boston University School of Medicine continues to provide the leadership for the Framingham Heart Study, the largest epidemiological study in the world. As a leading medical research institution BUSM is ranked 40th in receipt of federal funding. In 2016, the BUSM received $385 million in total grant awards, with $327 million coming from the NIH. The BU School of Public Health, currently ranked #10 in the nation, has an additional $40 million in grant funding, with an emphasis on global health, maternal and children health and health policy. The school, in partnership with Boston Medical Center, continues to build BioSquare, a 16-acre state-of-the-art biomedical research and business park, next to its campus in the South End. BioSquare provides BUSM with an additional 2.5 million square feet of research space. There is a particular emphasis on interdisciplinary research programs featuring investigators from the School of Medicine collaborating with investigators at the other medical campus schools (Public Health and Dentistry), our principle teaching hospital (Boston Medical Center), and the Charles River Campus of Boston University. These collaborative projects often focus on urban health problems, health disparities, and issues of health care delivery to vulnerable populations and underserved communities.

BioSquare Research Center at BUSM
## Program

### What's Special About the BCRP

1. Residents and faculty: diversity and unmatched quality
2. Unique combination of the leading pediatric subspecialty and research hospital with the leading center in urban pediatrics and patient advocacy
3. Commitment to education and innovative initiatives like the BCRP Academies.
4. Intertwining of high quality research and clinical care
5. Flexibility and family friendliness
6. Academic Development Block
7. Harvard and BU medical students
8. Resident influence on organization of residency through the Residency Program Training Committee
9. Global Child Health Initiative and Global Health Pathway
10. Harvard University, Harvard Medical School and Boston University School of Medicine Libraries and extraordinary electronic library facilities
11. Location of hospitals adjacent to highly desirable living areas in Brookline and Boston
12. Boston and New England

The Boston Combined Residency Program in Pediatrics (BCRP) was formed to meet the needs of the future, bringing together the training programs of Boston Medical Center (formerly Boston City Hospital) and Boston Children’s Hospital. Boston Medical Center has a long and important history of clinical research, advocacy, public policy and primary care training for pediatricians in an urban setting. Boston Children's Hospital is the nation's leading research and training institution dedicated to the care of children, adolescents, and young adults with unusual and complex medical problems.

Pediatric care is changing rapidly and the dynamic interface between health care systems, and complex medical challenges requires residency training programs to constantly modify their educational programs. Pediatricians of the future will need advanced knowledge and skills to diagnose and treat children with medical and surgical problems in a primary care setting. Subspecialists will work in close collaboration with primary care clinicians in managing children who require their expertise.

Imbedded within this framework of pediatric care must be the continued development of leaders in academic medicine and research.

The aims of the training program are to:

1. Provide world-class clinical training that engages residents in the breadth of pediatric medicine and adapts to meet the evolving needs of children, families, and populations.
2. Develop the next generation of leaders in pediatrics who will advance and transform pediatric science, care delivery, and health systems.
3. Cultivate a learning environment that reflects a commitment to exceptional care, respect, diversity inclusion, and the personal and professional well being of all team members and that instills a passion for inquiry and the highest standards of professionalism and integrity.

**Mission:** The BCRP is dedicated to providing outstanding (world-class) clinical training that prioritizes clinical excellence, aligns to the interests and goals of each resident, fosters the acquisition and strengthening of leadership and advocacy skills, creates an environment conducive and supportive of scholarship and innovation, and optimizes the opportunity to advance the science of pediatrics through research.

**Vision:** It is the vision of BCRP that each resident completing our program is an effective leader for child health within any chosen career and is providing clinical care of the highest quality, optimizing the health and well-being of each child under their care.

**Values:** The BCRP believes that superb training promotes care that is patient and family centered, longitudinal in perspective, collaborative, compassionate and humanistic, culturally competent, evidence-based, high-value, inter-professional, and innovative. The BCRP believes that a superb training experience requires commitment to development of the individual as a professional, life-long learning, development of leaders capable of driving change, inter-professional teamwork, and balance in personal and professional life.

The goal of the BCRP is to provide our housestaff with the skills required to attain leadership positions in academic pediatrics, to support their clinical and research careers, thus allowing them to modify the future direction of
pediatric health care. You will receive comprehensive training experiences that emphasize outstanding clinical care, while integrating your training with advances in basic science, and provide you with access to faculty who are leaders in science, clinical care, education, patient safety and quality, global health, advocacy and public policy. The BCRP is committed to provide you with a dynamic training experience while emphasizing humanistic qualities in a supportive training environment to assist you in reaching your professional and personal goals.

We believe the BCRP serves as a national model for pediatric training and comprehensive care for children. It has brought together two great hospitals and universities not for economic gain, but rather to help craft the future of pediatric care and training. We are pleased to offer this program for applicants interested in becoming leaders in pediatrics, and we look forward to working with you as our colleagues to meet the challenges of pediatric health care and to help shape the future of clinical care, research, and education.

The BCRP seeks to attract individuals from diverse backgrounds including, but not limited to race, ethnicity, disability, socioeconomic status, gender identity, and sexual orientation.

Tracks

The Boston Combined Residency Program in Pediatrics (BCRP) at Boston Children's Hospital and Boston Medical Center emphasizes training in general pediatrics for all residents, regardless of their ultimate career plans. The program offers two tracks:

- Categorical Track (36 residents) — emphasizing training in academic medicine and pediatric subspecialties

- Urban Health and Advocacy Track (11 residents) — emphasizing training in urban pediatrics, public policy and advocacy

Categorical Track

This track (NRMP #1259320C0) is designed for applicants who wish to focus on academic general or specialty pediatrics. Besides the strong educational base in general and subspecialty pediatrics, principles of academic leadership are actively taught throughout the three-year training program. About 85% of the Categorical track graduates enter subspecialty fellowships or academic general pediatrics fellowships, but some pursue pediatric practice, hospitalist positions, global health and health policy experiences, and health services research training programs.

Categorical track residents have opportunities for research funding, exposure to academic meetings and active mentoring by general pediatrics and subspecialty faculty. Most residents participate in the standard three-year curriculum; however, the two research tracks of the American Board of Pediatrics—the Integrated Research Pathway, and the Accelerated Research Pathway—are available to housestaff pursuing academic research careers. In fact, the BCRP has had the most residents participate in these so-called “fast-tracking” pathways of any program.

Categorical residents do approximately 70 percent of their training at Children’s Hospital and 30 percent of their training at Boston Medical Center.

Urban Health and Advocacy Track

The mission of this track (NRMP #1259320C1) is to cultivate a community of pediatricians focused on caring for underserved and marginalized children. Urban Health
and Advocacy track (UHAT) residents believe that reducing health disparities is central to their lives as pediatricians, whether in primary care, subspecialty or acute settings. The track allows residents to focus on their interests in social justice, general academic pediatrics, public health policy, legislative advocacy, community pediatrics, and global health. Development of leaders in these areas is a goal of this track. As PL1s, UHAT residents, as a group, participate in the Keystone block which includes the residency advocacy curriculum. Beginning in the PL2 year, UHAT residents select an additional half-day experience to augment their training. Residents have the option of choosing between a second continuity clinic or a project in urban health, advocacy, international health or public policy. The UHAT curriculum is enhanced by monthly educational “research, advocacy and policy” (RAP) sessions on child health and advocacy, as well as by regularly scheduled community building and networking evenings.

Many UHAT graduates have careers in general or subspecialty pediatrics with a focus on health care issues of the urban poor, serving as researchers, advocates, community leaders and clinicians. They often practice in urban settings, and many pursue academic general pediatric fellowships, advocacy fellowships, masters programs in public health and health services research fellowships.

UHAT residents spend 35 percent of their time at Boston Medical Center and 65 percent at Children’s Hospital. Inpatient general pediatrics rotations are spent primarily at Boston Medical Center in the PL-2 and PL-3 years.

Common Aspects

Both Categorical and Urban Health and Advocacy tracks are geared towards training outstanding general pediatricians. Scheduled rotations in the two tracks are very similar and all residents work at both institutions. However, the faculties at Boston Children’s Hospital and Boston Medical Center have different interests and the two institutions have a different focus, which allows residents to focus upon their individual goals and take advantage of the diverse resources to explore and prepare for careers in virtually any aspect of pediatrics.

It is important to emphasize that residents in the two tracks are all part of the same program and function as one. They are totally integrated in all aspects of the program and, aside from the program leaders, few faculty or staff know which residents belong to which track. As described in detail in the Application section, each track has a separate match number through the National Resident Matching Program (NRMP) and has a separate selection process. Applicants can apply to either one or both tracks. Because the tracks are quite similar, the program is highly unified, and because most applicant’s interests overlap the missions of both tracks to some degree, most applicants should apply to both tracks.

Combined Pediatrics-Anesthesiology

The BCRP was one of the first residency programs to offer combined training in Pediatrics and Anesthesiology (NRMP #1259726C0). Residents spend their first year in pediatrics residency. The following year is the first year of anesthesiology training, followed by three years of integrated residency training in both pediatrics and anesthesiology. Throughout the three years of integrated training, while residents are doing core training in Pediatrics or Anesthesiology, they attend conferences and participate in core clinical activities once a month in the other discipline to keep the combined program fully integrated. There is a core seminar series that will occur throughout the year to bring together the residents in the combined training program. The seminar will cover topics specific to pediatric anesthesiology.

Individuals ideally suited for this combined training will likely pursue careers at the interfaces between critical care, pediatrics, and anesthesiology. Examples of such careers include hospitalist medicine, pain and palliative care, out-of operating room procedural and sedations services, and members of integrated subspecialty teams in pediatrics, critical care and anesthesiology.

The program is described in more detail here.

Combined Pediatrics-Medical Genetics

The BCRP is one of the few residency programs in the country that offers combined training in Pediatrics and Medical Genetics (NRMP #7652444017). The program is four years and offers the opportunity to be board-certified in both fields. Residents spend their first year in pediatrics residency. During the following two years, residents alternate between rotations in clinical genetics and pediatrics every six months. The fourth year is spent completing clinical genetics training, as well as a genetic research project. During their training in genetics, residents continue to attend their pediatrics primary clinics and are encouraged to participate in other BCRP educational programs.

The combined pediatrics-medical genetics residency is best suited for individuals who have a clear interest in medical genetics at the time of application. These individuals may envision clinical careers in genetics and genomics, biochemical genetics, complex care, or careers in research, bioethics, or advocacy for individuals with genetic disorders.

The program is described in more detail here.
Combined Pediatrics-Child Neurology
The BCRP offers two different Pediatrics-Child Neurology programs: one a joint program between the Categorical Track and the Child Neurology program at Boston Children’s Hospital (NRMP #1259185C0), and one between the Urban Health and Advocacy Track and the Child Neurology program at Boston Medical Center (NRMP #1257185C0). These two “Categorical” programs both begin with two years of general pediatrics in the appropriate track of the BCRP followed by three years of child neurology at either Boston Children’s Hospital or the Boston Medical Center, depending on the program. Both child neurology programs also offer separate “Advanced” positions that are not linked to the BCRP, where the matched residents first complete their two years of general pediatrics in some other program.

More detail is available regarding the programs at BCH and BMC.

Global Health Pathway
Two residents per year will be selected via a competitive application process for the Global Health Pathway of the BCRP. The goal of this pathway is to provide each resident with mentorship for global health careers, with dedicated individualized academic afternoons during retreats (replacing a BCRP Academy), to provide a community including dedicated faculty mentors, and to support the generation of additional resident-driven curricula, including journal clubs and networking events. Residents in this pathway would also work with their mentors to help plan 4 weeks of contiguous call-free elective time for global health electives/fieldwork in the junior year, and seniors will have 6 weeks of contiguous call-free time for global health fieldwork. Incoming interns in either the categorical or UHAT tracks will apply immediately after matching.

Harvard BWH/BCH Med-Peds Residency
The Harvard Associated Medicine & Pediatrics Programs were established in the late 1980s. The highly competitive program at the Brigham and Women’s Hospital and Children’s Hospital is fully integrated into each categorical residency. Med-Peds residents have the same supervision, responsibilities and opportunities as their medicine and pediatrics colleagues and are a vital part of the BCRP.

More information about the Harvard BWH/BCH Med-Peds Program is available here.

Residency Program Organization
The Residency Program Training Committee (RPTC) was established in the 1970s and is responsible for review of the curriculum and for development of new training initiatives. The committee’s structure, shown in the figure on the next page, aligns residents and faculty members with the main educational elements of the residency program curriculum. The RPTC Executive Committee oversees and integrates the work of five standing Committees for Inpatient Care, Subspecialty Experiences, Intensive Care, Ambulatory Experiences,
BOSTON COMBINED RESIDENCY PROGRAM

and the Individualized Curriculum. On all committees of the RPTC, there are faculty representatives from each institution, but residents elected from each class constitute the majority of the committee members. The fact that residents in the Boston Combined Residency Program (BCRP) are primarily responsible for directing their own program and deciding critical details is one of the strengths of the program.

Based on new 2013 ACGME Program Requirements for Graduate Medical Education in Pediatrics the RPTC and its standing Committees redesigned the residency program curriculum while maintaining compliance with new program requirements. Our aim was to create an innovative curriculum that provided rigorous pediatric training, met curricular needs, and provided flexibility for professional development. We believe the new BCRP curriculum reflects the mission, vision, and values of our program and enhances the academic focus of residents, a focus that sets us apart as a pediatric residency program nationally.

BCRP Administration and Operations

The BCRP is the union of prior residency programs at Boston Children’s Hospital (BCH) and Boston Medical Center (BMC) and functions as a one integrated program with the leadership at each institution working collaboratively. At each site there are weekly meetings of the program leaders (program directors, chief residents, administrative staff, and, when appropriate, department chairs). The Executive Committee is composed of all program leaders and meets monthly and alternates sites.

Regular class meetings every few months allow for exchange of ideas, information, and address areas of needed improvement. Town hall meetings of the entire residency serve a similar function and occur every two to three months. These gatherings provide an open forum for discussion on a variety of topics related to residency education.

Progress Notes, a weekly newsletter, written by the chief residents, provides an opportunity for real time discussion of events, ideas for curricular change, areas of success to celebrate, or areas of improvement that need action.

In these multiples venues, we hope to continue to foster bidirectional exchange of information, ideas, and issues with the ultimate goal of constantly improving the education and training within the BCRP.

Residents serve as a driving force for change in the program. They play a key role in the Residency Program Training Committee and the resident voice at class meetings and town hall meetings is pivotal to curricular development. The wonderful collaboration of residents with chief residents and program leadership is a significant feature of the BCRP.

The 2019-2020 BCRP Program

The residency program is constantly seeking to improve and innovate the way we train pediatricians and pediatrics subspecialists. The Residency Program Training Committee reviews all aspects of the program and proposes new content and rotations to the Executive Committee. Many members of the residency community were involved in the in-person retreat including resident representatives, chief residents, program leadership and invited faculty from Boston Children’s Hospital and Boston Medical Center. In the coming academic year, we are introducing two new rotations for the Senior Year:

Senior in Charge: an overnight rotation Sunday through Thursday at Boston Children’s Hospital features a senior resident who will be the inpatient leader to assess the acuity of inpatient teams and assist with clinical care across the hospital by discussing challenging patient scenarios, assisting the overnight pulmonary intern, and offering to offload some clinical tasks as needed. If the situation warrants activating the back-up system, the Senior in Charge will contact the Chief on Call to bring in additional support. At other times the Senior in Charge will assist with some clinical tasks or discuss management options for challenging clinical cases. The Senior in Charge also carries the code pager and attends codes and does general pediatrics consults on other services. In the morning at 7:45 am, she/he will report on the State of the Hospital at Morning Report.

Behavioral and Mental Health Block: In light of the increasing prevalence of pediatric mental health disorders, a national movement towards integrated behavioral health in primary care, and a national shortage in child psychiatrists, the BCRP feels a strong
responsibility to improve residency training in pediatric mental health. As such, the BCRP created a 2-week behavioral and mental health block for senior residents in conjunction with an intentional integration of a mental health curriculum over the three years of residency. The overall goal of the block is to improve resident comfort and competence in evaluating and treating pediatric populations with behavioral and mental health conditions with a focus on depression, anxiety, and ADHD. The rotation includes outpatient clinical work in varied integrated behavioral health settings as well as experiences with our city’s mobile emergency response team to learn skills in crisis management, behavioral de-escalation as well as behavioral health triage. The emphasis will be on common behavioral and mental conditions including depression, anxiety, ADHD, and behaviors of children who are on the autistic spectrum.

Unique Educational Initiatives and Personal and Professional Development Program-wide in the BCRP

- **BCRP Wellness Committee** – This committee developed activities and programs to enhance the personal and professional development of residents. As an example, we designated February as “Funuary” (see Figure) and created a series of fun leisure activities that brought residents and program leaders together. We also offer a voluntary program for all residents several times a year for screening for depression and burnout with confidential referrals for evaluation and treatment.

- **BCRP Leadership Curriculum** – We introduced a Leadership Curriculum spanning all three years that focuses on team leadership within the program and leadership roles in one’s future career with an annual housestaff-wide retreat focusing on leadership topics. In addition, each resident is assigned a leadership mentor to facilitate their leadership roles within the program such as on supervisory rotations, but also with attention to their ongoing leadership skills as they advance in their careers.

- **BCRP Diversity Committee** – This committee focuses on the recruitment of individuals with diverse backgrounds to the BCRP. It is part of our program’s aim to attract people who bring diverse perspectives to enhance the program and serve our diverse patient population. The BCRP seeks to attract individuals from diverse backgrounds including, but not limited to race, ethnicity, disability, socioeconomic status, gender identity, and sexual orientation.

Other Program Features

**The BCRP Academies: Innovative Academic Homes**

The BCRP has a long history of producing academic pediatricians and have four academic homes or “Academies”, consisting of residents, faculty and other trainees who share intellectual interests:

- Academy of Basic and Translational Investigation
- Academy of Clinical Investigation
- Academy of Clinical Innovation
- Academy of Medical Education

The overarching goals of the BCRP Academies are to:

- Promote formal and informal faculty-resident interactions and mentorship
- Promote and support scholarly pursuits
- Develop Academy-specific concrete skills such as grant writing, bedside teaching and participating on project teams
- Assist residents as they make decisions about their academic careers

Faculty within the BCRP Academies are motivated individuals who may serve as project or career mentors and provide residents guidance, advising, coaching, and professional development. Each resident has 6 months of Individualized Curriculum built on the foundation of our longstanding and unique PL3 rotation, the Academic Development Block (ADB). This 3-month block provides each BCRP resident with the opportunity to do a scholarly project. Mentoring residents about their Individualized Curricula (ADB coupled with other clinical experiences) is a focus of the BCRP Academies.

Academy activities begin during Intern Orientation with scheduled time throughout the year. Interns select an Academy at the beginning of the year; however they are able to switch Academies throughout their residency if their interests change. Residents participate in a variety of Academy-related functions and events:

- Intern Orientation – Introduction to the Academies
- Noon Conferences and Journal Clubs
- Afternoon workshops and seminars six times per year
- Evening events such as networking receptions or Data Blitz Sessions (brief presentations by faculty of exciting research) about twice per year
- Individual mentoring by Academy leaders and faculty
- Academy-led sessions at the fall and spring retreats

The Academies are the professional development homes
<table>
<thead>
<tr>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td>FUN AT WORK!</td>
<td>FUN AT WORK!</td>
<td>FUN AT WORK!</td>
<td>Frog Pond Ice Skating</td>
<td>HSA FORMAL!</td>
<td>Pasta-Making with Bob and Tom</td>
<td>Surfing!</td>
</tr>
<tr>
<td>Post-call Waffles @ BCH</td>
<td>Loc: HSL</td>
<td>Time: 5-11a</td>
<td>Cost: FREE</td>
<td>Pick up your passes from Carolyn!</td>
<td>Loc: Bob's House</td>
<td>Time: 3:30pm</td>
</tr>
<tr>
<td>Yoga by Sam</td>
<td>Loc: BCH Byers A/B</td>
<td>Time: 6:30p-8:30p</td>
<td>Trivia Night</td>
<td>Loc: Clery's (South End)</td>
<td>Time: 7p</td>
<td></td>
</tr>
<tr>
<td>BMC: Chair Massages</td>
<td>(SOGH-UP)</td>
<td></td>
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<td></td>
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<tr>
<td>&quot;How-to Homebrew&quot; and Craft Beer Tasting</td>
<td>Loc: Emily's apartment</td>
<td>Time: TBD</td>
<td></td>
<td></td>
<td></td>
<td>Escape the Room</td>
</tr>
<tr>
<td>Pet therapy</td>
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<tr>
<td>Post call waffle making</td>
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</tbody>
</table>

Mixology session at Associate Program Director Tom Sandora's house

Pet therapy

Post call waffle making
within our training program. They serve the individual needs of our trainees as they launch their academic careers and provide a way to identify mentors and innovative projects.

Academies of Investigation

Overview: We have two investigation related Academies: the Academy of Basic and Translational Investigation and the Academy of Clinical Investigation. Each subgroup will host joint as well as separate events. These Academies will unite residents and faculty whose careers in pediatrics will include a significant component of clinical or laboratory research, including those in all pediatric subspecialties and general pediatrics. They strive to prepare house staff for all aspects of a research career, including identifying mentors, exploring subspecialties, conducting research, meeting world class researchers, keeping up with advances in research, and learning how to develop an academic career.

Leadership of Basic Translational Investigation
Adam Durbin, MD
Mariella Filbin, MD, PhD
Samuel Lux, MD
Joseph Majzoub, MD
Rick Malley, MD
Brian McAlvin, MD
Raif Geha, MD
Vijay Sankaran, MD, PhD

Leadership of Clinical Investigation
Michael Agus, MD
Todd Lyons, MD
Andrew Place, MD, PhD
Thomas Sandora, MD, MPH

Recent Activities:
• Mock study section
• Grant opportunities
• Research “Works in Progress” sessions
• Study Design and Statistics
• Data Blitzes (multiple 5-10 minute presentations of exciting research by faculty)
• Introduction to tools such as PubMed, MyNCBI, I2B2, Patient 360 that are valuable in clinical research
• Career trajectory of an investigator
• Hosting the Basic Science Journal Club/Seminar and the Clinical Science Journal Club
• Meet the Professor sessions

Academy of Medical Education

Overview: The Academy of Medical Education strives to develop skills necessary for achieving excellence in: 1) clinical and didactic teaching, 2) medical education scholarship and research, and 3) medical education leadership. They achieve these goals through formal and informal seminars, workshops, and mentoring. Areas of focus include: hot topics in medical education, curriculum development, learner assessment, exploration of learning theories, using technology in medical education, writing scholarly articles in medical education, developing and carrying out medical education research, reviewing and critiquing the medical education literature, and advanced development of skills in clinical teaching and supervision.

Leadership:
Alan Leichtner, MD, MSHPE
Colin Sox, MD
Recent Activities:
• Skill-building through micro-teaching exercises
• Workshops
• Duty hours and the impact of duty hour changes
• New pedagogies and technology: spaced education, flipped classrooms, simulation, virtual environments
• Competencies, milestones, and professional activities
• Humanism/professionalism and the hidden curriculum
• Medical Education Research methods
• Inter-professionalism, teamwork, and the social influence of performance
• Attitude formation and change
• Curriculum development
• Journal clubs
• Social events and evening activities

Interest Groups
The BCRP residents and faculty have established Interest Groups across a wide range of specialties. The purpose of these groups is to introduce residents to subspecialties they are considering after residency and to faculty in those fields, and to help in identifying mentors. Each interest group is headed by one or more residents and one or more faculty members, who recruit members and organize activities. The activities vary but often include dinners or other social affairs that promote discussion.

The interest groups include:
• Adolescent Medicine
• Allergy, Immunology & Rheumatology
• Cardiology
• Critical Care
• Developmental-Behavioral Pediatrics
• Emergency Medicine
• Endocrinology
• Gastroenterology & Hepatology
• General Pediatrics
• Genetics and Genomics
• Hematology/Oncology
• Hospital Medicine
• Infectious Diseases
• Nephrology
• Newborn Medicine
• Primary Care
• Pulmonology

Geographic Ward Team Structure and Family Centered Rounds
Several years ago, the BCRP created multiple geographic (unit-based) ward teams to improve patient care, optimize communication with the nursing staff, and enhance efficiency of team function. Subsequently, we implemented family centered rounds on our general pediatrics teams at BCH and BMC. The aim of this change was to increase time at the bedside, to empower interns with greater ownership of their patients and direct communication with patients and families on rounds, and to create a more efficient team structure. To facilitate this change in rounds format, we split our traditional four-intern teams (with one Senior and an Associate Senior) into two teams, each with its own Senior. The two projects have been a success and have improved nurse-resident communication (Gordon MB. Arch Pediatr Adolesc Med 2011; 165:424-428).

The I-PASS Handoff Curriculum
As part of our aim to improve communication and patient safety (reduction in medical errors), we piloted and implemented a standardized approach to resident handoffs on the inpatient units with the introduction of the I-PASS handoff process. We employ a standard language for our verbal handoffs to focus the discussion at evening sign-out. Using our EMR, we developed an electronic handoff tool that imports medical information automatically and residents update text fields within the electronic handoff tool to provide timely information about:
• Illness severity
• Patient summary
• Action lists
• Situation awareness and contingency planning
• Synthesis by receiver

This curriculum is evidence-based and ensures a shared mental model for the care of patients on the team. The pilot study demonstrated a 40% reduction in medical errors, a decrease of time at the computer (roughly 30 minutes per day), and increased time at the bedside (30 minutes per resident per day). On the basis of these results, we are implementing the I-PASS handoff process across our program. More information about the I-PASS study and the educational curriculum is available at www.ipasshandoffstudy.com, and in several publications:
As we have always done, we continue to emphasize educational scholarship in our program and study the impacts of curricular change.

Bringing I-PASS to the Bedside: Standardizing Patient Centered Communication to Improve Understanding and Enhance Patient Safety

This initiative aims to reduce medical errors, improve the patient, family, and provider experiences, and promote a shared mental model of the plan of care. Based on pilot data that patients and families had a discordant understanding of the plan of care, Boston Children’s investigators Alisa Khan and Christopher Landrigan developed an Intervention Bundle and launched a multisite project across North America. They found impressive results, with a 38% reduction in adverse events following implementation of the Intervention Bundle!

We have implemented the new approach to care at Boston Children’s Hospital and Boston Medical Center on the general inpatient units. The Intervention Bundle consists of: 1) engaging and empowering patients and families with an orientation to Patient and Family Centered Rounds on admission (with a brochure); 2) a new format of discussion on rounds based on the organizing framework of the mnemonic, I-PASS, plus a written Rounds Report that summarizes what we discussed; and 3) standardized communication techniques throughout the day and night shifts with an inter-professional Huddle at mid-shift. We have been training faculty at both sites this Spring and will do training at Rising Junior Orientation, Rising Senior Orientation and New Intern Orientation. Patients, families and nurses have responded positively to this enhanced rounds structure.

Special Class-wide and Residency-wide Educational Events

Intern Orientation

The BCRP features an intensive orientation process with the specific intention of better preparing interns for the first day of internship. Besides the traditional information sessions, we deliver simulation exercises to enhance the function of interns in their inpatient rotations, and provide modules and clear guidelines about written documentation, oral presentations, procedures, the I-PASS handoff curriculum, and on-call expectations. We also orient new interns to the information systems and have them gain competence in writing orders, viewing medical information, laboratory results and images, and in navigating the electronic health record systems. Although the Orientation covers many work topics, it is balanced by social events to facilitate your getting to know your new intern classmates very well.

Intern Boot Camp

Based on feedback from current residents and staff, the BCRP recently added a new clinical boot camp to intern orientation. During the boot camp, incoming interns spend time on the wards taking care of a small number of patients in a highly supervised fashion. Among other topics, there is instruction on how to present a patient on family centered rounds, how to call a consult, how to safely enter orders and how to document effectively and efficiently. Interns are able to practice these skills with increased supervision and guidance and therefore be better prepared for clinical practice on day 1 of their first rotation. This program has been enthusiastically received by the interns who feel it gives them confidence and better prepares them to start internship.

Retreats

There are two residency-wide retreats held in the fall and late winter in which we address a variety of topics that are part of the basic culture or values of the residency program. In the past, we addressed themes such as teaching, leadership, feedback, work-life balance, patient centered care, communication skills, the I-PASS handoff
curriculum, Patient and Family Centered Rounds based on the I-PASS mnemonic, and skills training. It is an opportunity for all residents to spend a day together to reflect on the topics and have a welcome break from the day-to-day grind of residency.

Residents provide the program with enormous feedback during these retreats, and this feedback drives curricular innovation, renovation and, at times, transformational change for the BCRP.

**Rising Class Orientations**

In the late spring, we host class-wide orientation for Rising Juniors and Rising Seniors, in which we focus on new aspects of the curriculum, leadership skills, and personal and professional development.

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**Flexibility: A BCRP Value**

The size of the program affords opportunities for residents to personalize their training experience. Many residents have unique educational and career objectives, and the BCRP makes every effort to adapt the standard schedule to accommodate these whenever possible. Requests for individual training experiences must be made well in advance of the next academic year (8-9 months).

Here are some of the ways our residents have used this flexibility:

- Attending national meetings related to pediatrics, pediatric subspecialties, and other areas of interest, and presenting work at these meetings
- Serving on national committees (AAP, AMA, etc)
- Pursuing international research and clinical experiences
- Taking advantage of unique elective experiences, like working for the Medical Unit of ABC News or working at the Federal Government Affairs Office of the American Academy of Pediatrics
- Participating in one of the ABP-approved research tracks (Integrated Research Pathway or Accelerated Research Pathway)
- Taking a year off to pursue other training or research
- Focusing on career-specific or subspecialty experiences in the senior year

Finally, size allows for flexibility with family issues, including paid maternity and paternity leave, leaves for illness or family emergencies, and occasionally for part-time schedules (for personal or academic reasons).
Rotations: Year-by-Year Snapshot

Overview
The BCRP curriculum is designed to provide increased responsibility during the first two years, culminating in a strong supervisory year. All rotations occur at either Boston Children’s Hospital, Brigham and Women’s Hospital, or Boston Medical Center. Residents are not asked to staff other hospitals during their training period. The intern year focuses on building a foundation in general pediatrics, beginning to build a longitudinal ambulatory practice, and gaining experience in advocacy. The junior year introduces rotations on subspecialty and acute care units, experiences that are often more challenging than those in the intern year and more suited to the enhanced capabilities of junior residents. Junior residents also acquire some supervisory experience, formal teaching experiences, and have time to individualize their curriculum. Notably, junior residents are introduced to multiple new learning experiences and are not asked to replicate intern rotations. The senior year focuses on supervisory experiences, acute care, individualized learning opportunities and research.

First Year, PL-1
The intern year experiences are intended to develop a foundation of pediatric knowledge, along with the practical skills and confidence needed to work independently and supervise other residents in the subsequent years of the residency.

Interns take front-line responsibility for the care of patients in the inpatient wards, ambulatory clinics, and emergency departments at both BCH and BMC, as well as in the NICUs at BMC and Brigham and Women’s Hospital (BWH). In these settings, interns learn how to care for patients with a wide range of pediatric illnesses and illness acuities. Interns also participate in teaching medical students from Harvard Medical School and Boston University School of Medicine.

Building the foundation: Most of the inpatient experiences during the intern year involve covering the pediatric wards at both BCH and BMC. These teams are geographically based and comprise a mix of general pediatric and subspecialty patients. Interns also cover the Intermediate Care Program (a PICU step-down/floor step-up unit at BCH). Neonatal experiences take place in the newborn nurseries and NICUs at BMC and BWH. Finally, interns work in the Emergency Departments of BMC and BCH. Interns also get an introduction to subspecialty care during their four-week Pulmonary rotation, a primarily inpatient service with one week of outpatient clinic.

Ambulatory experiences: All residents belong to a Continuity Clinic, where they care for their personal patient population panel over the course of three years including occasional work in Urgent Care. In addition to this, interns participate in longitudinal ambulatory experiences in Developmental and Behavioral Pediatrics and in Adolescent Medicine during the Keystone blocks. Interns are also exposed to subspecialty ambulatory clinics during their Pulmonary rotation.

Advocacy experiences: All interns participate in four total weeks of formal advocacy training during their Keystone blocks. During this time, they gain knowledge of community resources and local and state advocacy programs, skills in media and legislative advocacy, and broader understanding of career opportunities in advocacy, public policy and global health.

Second Year, PL-2
The junior year is when residents get their most concentrated exposure to subspecialty and acute care pediatrics accompanied by an increase in decision-making autonomy and responsibility for high-acuity, often critically ill patients. The junior year also introduces supervisory roles and affords more opportunities for leadership and teaching.

Increased acuity, increased autonomy: Juniors are the only residents on the following BCH subspecialty inpatient services: GI, Cardiology, Complex Care, and Oncology. Breadth of subspecialty experiences is maintained by building in protected ambulatory experiences into each of these primarily inpatient subspecialty units. Juniors also work with increased autonomy caring for acutely ill patients in the EDs at BMC and BCH, serve as the main responders to all deliveries requiring a pediatrician at BWH, and cover one of the three main teams in the Medical-Surgical Intensive Care Unit (MSICU). These rotations require juniors to build on the clinical skills and knowledge gained during the intern year, become more nuanced in their evaluations and differential diagnoses,
and more independent and efficient in patient management.

**Supervisory experiences:** Juniors supervise interns in the BMC Ward and NICU, in the BCH Intermediate Care Program, on two geographic subspecialty teams (a Hematology, Renal and Toxicology team, and an Allergy, Immunology, Rheumatology, Endocrine, Adolescent, and subspecialty Pulmonary team), and on the General Pediatrics Teams. They are also frequently role models and sources of support for interns in the EDs at BCH and BMC. Many of our residents love to teach and lead, and these experiences are highly valued by juniors as opportunities to participate in shaping the culture of the BCRP.

**Resident as Teacher Curriculum:** Juniors have a two week TEACH rotation focused on developing residents’ supervisory and teaching skills. It includes scheduled activities such as delivering a chalk talk, practicing feedback, and precepting medical students, as well as provides individualized time tailored to each resident’s career goals.

**Individualized Curriculum:** The junior year includes 6-10 weeks of elective time, of which 2 weeks are call-free. Juniors use this time to personalize their training experience by pursuing further exposure to pediatric subspecialties, dedicating time to research or teaching, engaging in global health experiences, and a myriad of other options. Some are structured by the residency program and others are individual and unique.

**Expanded UHAT opportunities:** UHAT residents have a half-day every month when they can choose between a second continuity clinic and a project in urban health, advocacy, global health or public policy.

**Third Year, PL-3**

The seniors are the main leaders and teachers for the residents of the BCRP. The General Pediatrics supervisory experiences are highly valued by seniors, allowing them to integrate the knowledge and skills acquired in the previous two years, while taking an active role in promoting the development of interns and medical students.

**Individualized curriculum:** Seniors are also provided time to focus on individual and career interests through the individualized curriculum which consists of 12 weeks time on the Academic Development Block and 8 to 12 additional weeks of elective time. The Academic Development Block is a unique opportunity for senior residents to spend a sustained amount of time focusing on research, education, policy or advocacy projects that fit their clinical interests and future career goals. Our residents have used this time in an incredible variety of ways!

**Team leadership and education:** Senior residents supervise on the General Pediatric services at BCH, the Intermediate Care Program at BCH, and on the Pediatric Ward at BMC. Categorical track residents generally spend more of their supervisory time at Children’s Hospital, while most Urban Health and Advocacy track residents spend more time at Boston Medical Center. However, individual preferences for supervisory experiences are considered whenever possible. Additionally, the Senior In Charge rotation is a night rotation that gives senior residents the opportunity to collaborate with residents and hospital leaders throughout the hospital to triage and manage acute problems overnight.

**Mental Health Rotation:** Senior residents have a two week call-free rotation in which they gain exposure to the management of mental health problems from the ambulatory setting to the acute setting, with opportunities to learn from community partners and mental health subspecialists.

**Call-free time:** All senior residents have approximately 6 weeks of call-free time during the year.
## Categorical Track

### PL-1 Rotation Schedule

<table>
<thead>
<tr>
<th>Service</th>
<th>Units</th>
<th>Night/Weekend Call</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inpatient Day Service (BCH Gen Peds, 7Subs, BMC Ward)</td>
<td>2-4</td>
<td>Work 2 wknds Off 2 wknds</td>
</tr>
<tr>
<td>Inpatient Day Service (6E/6Subs)</td>
<td>0-0.5</td>
<td>No overnights, Work 6 days/wk</td>
</tr>
<tr>
<td>Inpatient Day Service (Pulmonary)</td>
<td>1</td>
<td>Every 4th night.</td>
</tr>
<tr>
<td>Inpatient Night Service (BCH Gen Peds, 7Subs, BMC Ward)</td>
<td>0-1</td>
<td>Work 5 nights on night float, off 2 nights</td>
</tr>
<tr>
<td>Neonatal Intensive Care Unit</td>
<td>1-2</td>
<td>BWH: Every 4th night. BMC: Day shifts. On 2 wknds, off 2 wknds</td>
</tr>
<tr>
<td>Newborn Nursery</td>
<td>1</td>
<td>No overnights. Work 2 wknds Off 2 wknds</td>
</tr>
<tr>
<td>Child Development (Keystone)</td>
<td>1</td>
<td>4 to 5 nights in ICP during Keystone block</td>
</tr>
<tr>
<td>Adolescent Medicine (Keystone)</td>
<td>1</td>
<td>4 to 5 nights in ICP during Keystone block</td>
</tr>
<tr>
<td>Emergency Medicine</td>
<td>0.5-1</td>
<td>Day and evening shifts</td>
</tr>
<tr>
<td>Intermediate Care Program (ICP)</td>
<td>0-1</td>
<td>Work 2 wknds Off 2 wknds</td>
</tr>
<tr>
<td>Community Health and Advocacy (Keystone)</td>
<td>1</td>
<td>4 to 5 nights in ICP during Keystone block</td>
</tr>
<tr>
<td>Back Up</td>
<td>0-0.5</td>
<td>---</td>
</tr>
<tr>
<td>Vacations</td>
<td>Two 2-wk breaks</td>
<td>---</td>
</tr>
<tr>
<td>Continuity Clinic</td>
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<td>1 afternoon/wk on average</td>
</tr>
</tbody>
</table>

## Urban Health and Advocacy Track

### PL-1 Rotation Schedule

<table>
<thead>
<tr>
<th>Service</th>
<th>Units</th>
<th>Night/Weekend Call</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inpatient Day Service (BCH Gen Peds, 7Subs, BMC Ward)</td>
<td>2-4</td>
<td>Work 2 wknds Off 2 wknds</td>
</tr>
<tr>
<td>Inpatient Day Service (6E/6Subs)</td>
<td>0-0.5</td>
<td>No overnights, Work 6 days/wk</td>
</tr>
<tr>
<td>Inpatient Day Service (Pulmonary)</td>
<td>1</td>
<td>Every 4th night.</td>
</tr>
<tr>
<td>Inpatient Night Service (BCH Gen Peds, 7Subs, BMC Ward)</td>
<td>0-1</td>
<td>Work 5 nights on night float, off 2 nights</td>
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<tr>
<td>Neonatal Intensive Care Unit</td>
<td>1-2</td>
<td>BWH: Every 4th night. BMC: Day shifts. On 2 wknds, off 2 wknds</td>
</tr>
<tr>
<td>Newborn Nursery</td>
<td>1</td>
<td>No overnights. Work 2 wknds Off 2 wknds</td>
</tr>
<tr>
<td>Child Development (Keystone)</td>
<td>1</td>
<td>4 to 5 nights in ICP during Keystone block</td>
</tr>
<tr>
<td>Adolescent Medicine (Keystone)</td>
<td>1</td>
<td>4 to 5 nights in ICP during Keystone block</td>
</tr>
<tr>
<td>Emergency Medicine</td>
<td>0.5-1</td>
<td>Day and evening shifts</td>
</tr>
<tr>
<td>Intermediate Care Program (ICP)</td>
<td>0-1</td>
<td>Work 2 wknds Off 2 wknds</td>
</tr>
<tr>
<td>Community Health and Advocacy (Keystone)</td>
<td>1</td>
<td>4 to 5 nights in ICP during Keystone block</td>
</tr>
<tr>
<td>Back Up</td>
<td>0-0.5</td>
<td>---</td>
</tr>
<tr>
<td>Vacations</td>
<td>Two 2-wk breaks</td>
<td>---</td>
</tr>
<tr>
<td>Continuity Clinic</td>
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### Categorical Track
#### PL-2 Rotation Schedule

<table>
<thead>
<tr>
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<tr>
<td>Supervisory Experience: (GPB, GPC, BMC Ward, CCS, ICP, 6E/6Subs, 7Subs)</td>
<td>1-2</td>
<td>BCH Gen Ped/BMC Ward/7Subs: 2 Friday calls, 2 Sunday day shifts</td>
</tr>
<tr>
<td>Inpatient Wards (GI, CCS, Cardiology)</td>
<td>2-3.5</td>
<td>Every 4th night</td>
</tr>
<tr>
<td>Medical-Surgical Intensive Care Unit</td>
<td>1-2</td>
<td>Every 4th night</td>
</tr>
<tr>
<td>BWH Delivery Room (DR-1)</td>
<td>0.5-1</td>
<td>Every 4th night</td>
</tr>
<tr>
<td>Oncology</td>
<td>1</td>
<td>Every 4th night</td>
</tr>
<tr>
<td>Stem Cell Transplantation Unit</td>
<td>0-0.5</td>
<td>Day shifts 6 days/wk</td>
</tr>
<tr>
<td>Emergency Medicine</td>
<td>1-2</td>
<td>Overnight shifts in 2 week blocks (5 nights on, 2 nights off)</td>
</tr>
<tr>
<td>TEACH</td>
<td>0.5</td>
<td>2 weeks call-free</td>
</tr>
<tr>
<td>Admit</td>
<td>0-0.5</td>
<td>5 evenings on, 2 off/wk</td>
</tr>
<tr>
<td>Primary Care</td>
<td>0.5</td>
<td>No night/weekend call</td>
</tr>
<tr>
<td>Electives</td>
<td>2-3.5</td>
<td>8 wks every 4th night call. 2 weeks call-free</td>
</tr>
<tr>
<td>Back Up</td>
<td>0-0.5</td>
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</tr>
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### Categorical Track
#### PL-3 Rotation Schedule

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<th>Service</th>
<th>Units 1U = 4 wk</th>
<th>Night/Weekend Call</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inpatient Supervisory Experience - Days (BCH Gen Peds, 7Subs, BMC Wards)</td>
<td>1-2</td>
<td>Two Friday calls, 2 Sunday day shifts</td>
</tr>
<tr>
<td>Inpatient Supervisory Experience - Nights</td>
<td>0.5-1</td>
<td>Night Float - 5 nights on, 2 nights off per wk</td>
</tr>
<tr>
<td>Critical Care (BCH MICU, BMC PICU, NICU)</td>
<td>1-2</td>
<td>Every 4th night</td>
</tr>
<tr>
<td>Elective/Individualized Learning Time</td>
<td>2-3</td>
<td>6 weeks call-free, 6 weeks cross coverage (every 4th night call)</td>
</tr>
<tr>
<td>Emergency Medicine</td>
<td>1.5-2</td>
<td>Day and evening shifts</td>
</tr>
<tr>
<td>Academic Development Block (ADB)</td>
<td>3</td>
<td>1-2 months every 4th night; 1-2 months Saturday calls (Gen Peds cross-cover)</td>
</tr>
<tr>
<td>Mental Health</td>
<td>0-0.5</td>
<td>No night/weekend call</td>
</tr>
<tr>
<td>Senior-in-Charge</td>
<td>0.5</td>
<td>5 nights on, 2 nights off per wk</td>
</tr>
<tr>
<td>Back-up</td>
<td>0.5-1</td>
<td>---</td>
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![Longitudinal Ambulatory and Ward Supervisory Pie Charts](chart1.png)

![Longitudinal Ambulatory and Ward Supervisory Pie Charts](chart2.png)
Rotation Descriptions

Keystone Blocks
The Keystone blocks unify ambulatory experiences during the intern year. They consist of 12 weeks of integrated Child Development, Advocacy, Adolescent and Primary Care experiences split into two six-week blocks. A didactic lecture series complements residents’ outpatient clinic time and focuses on relevant topics ranging from clinical cases to advocacy issues. During the Keystone blocks, residents manage pediatric medical problems over time, learn to navigate care delivery systems, and hone skills in the delivery of comprehensive medical care. Residents complete a capstone advocacy project across their Keystone experiences during the intern year. Aspects of the individual components that comprise Keystone are discussed in the Child Development and Adolescent Medicine sections below. The Community Health and Advocacy rotation is discussed later in the Benefiting the Community section.

Keystone — Child Development
Child Development is a joint rotation between Boston Children’s Hospital and Boston Medical Center. The rotation is designed to provide residents with a rigorous foundation in normal and abnormal infant and child development. Interns and Med-Peds PL-2 residents gain exposure to multi-disciplinary clinical programs providing assessment and follow-up for infants, children, and adolescents with developmental, behavioral and/or learning problems. Residents participate in testing with developmental-behavioral pediatricians, psychologists and educational specialists. Given its prevalence and social impact, there is a special focus on autism. Non-clinical experiences in child development provide wonderful adjunct opportunities and more complete appreciation for this important discipline. Residents participate in Early Intervention home encounters, visit the Children’s Hospital Childcare Center, and observe in classrooms, including special education settings and an elementary school in the Boston Public School system. Some also attend special education evaluation meetings and special school events. Also, one morning a month, each intern attends the Comprehensive Care Program at Boston Medical Center, a multidisciplinary primary care outpatient clinic for children with complex medical problems, including children with significant developmental delays, mental retardation, seizure disorders, autism, and former premature infants. Didactics at both Boston Children’s Hospital and Boston Medical Center include topics such as developmental screening and surveillance in primary care, special education evaluations and services, mental health screening, failure to thrive, discipline, the child’s experience of grieving and loss, and the child’s experience of interpersonal violence.

Keystone — Adolescent Medicine
A joint venture between the outpatient adolescent centers at Boston Children’s Hospital and Boston Medical Center, the adolescent medicine portion of the Keystone block provides a solid foundation in the primary and specialty care of teenagers. Interns hone their skills in routine health maintenance for male and female patients, family planning, gynecologic care, and STD testing and treatment. Interns also gain skills in screening for substance abuse and responding appropriately to positive screens. During their adolescent medicine clinic time, interns are scheduled to see their own panel of adolescents and are precepted by adolescent medicine attendings. Interns also participate in specialty clinic experiences such as sports medicine, scoliosis, reproductive health and dermatology. Non-clinical learning opportunities include: visiting a school-based health center (September-June) and a field trip with an attending to a residential treatment school for teenage girls. A comprehensive didactic curriculum focused on a variety of adolescent issues as well as effective implementation of evidence-based medicine will be covered over the course of the Keystone block.

Admit
Admit is a two-week rotation for junior residents engineered to protect evening sign-out times for the general pediatrics teams at Boston Children’s Hospital. Admit residents are scheduled from 4 pm to 9 pm five or six days a week and are responsible for taking ER and direct admissions during that time to allow safe pass-off of patient care for the other teams. Junior residents work directly with the nighttime admitting attending and pass off care of admitted patients to the primary night team. In addition to protecting care transitions for the primary general pediatrics teams, this well-loved rotation also allows junior residents increased autonomy, honing of their general pediatrics skills, benefit of a lighter clinical workload.
Cardiology

BCRP junior residents spend one month as part of the inpatient cardiology team at Boston Children's Hospital. The service is composed of four primary residents in conjunction with first or second year cardiology fellows and often several medical students covering the Cardiac Medicine, Heart Failure, Electro-physiology, and Pulmonary Hypertension teams. The residents work closely alongside a separate team of nurse practitioners and both teams benefit from an administrative medical teams associate. Each resident has primary responsibility for the evaluation and management of patients with a wide range of congenital and acquired pediatric heart diseases, under the supervision of the cardiology attendings and fellows. Each resident spends roughly five days in the outpatient clinics at Boston Children's Hospital and Boston Medical Center evaluating common and uncommon problems encountered in an academic cardiology practice. Daily didactic sessions presented by faculty cardiologists and geared exclusively to residents and medical students focus on core topics in pediatric cardiology from EKG reading and understanding cardiac catheterization data to care of patients with complex congenital heart disease.

Complex Care Service (CCS)

Due to the increasing number of children with complex health care needs, Boston Children’s Hospital has created an inpatient team and an outpatient clinic solely dedicated to the care of these children and their families. These patients have medical problems involving a minimum of three organ systems and often participate in cooperative multidisciplinary programs at Boston Children's Hospital such as the Myelodysplasia Program, the Cerebral Palsy Program and others. Junior residents rotate for two 2-week blocks on the inpatient CCS service composed of two residents, a nurse practitioner, a clinical nurse specialist, a CCS social worker and a CCS attending. Patients may be hospitalized for acute medical problems such as aspiration pneumonia or increased seizure frequency, or they may be admitted for intensive management of more chronic issues, such as progressive weight loss. Residents gain proficiency in assessing medication interactions and are exposed to a wide variety of medical devices including gastrostomy and jejunostomy tubes, tracheostomy tubes, urinary stomas, ventriculoperitoneal shunts, and Baclofen pumps. Because many patients need input from multiple subspecialty teams, residents learn to synthesize consultant recommendations to deliver optimal care. A didactic lecture series provides education on the common problems that arise in children with complex medical disorders. Overnight, CCS juniors help to supervise interns on the pulmonary rotation, which adds more supervisory and teaching experiences to the junior year.

Electives

Residents have about four to five months of elective time distributed between their PL-2 and PL-3 years. Approximately two months of this elective time will be call free. All pediatric residents must complete seven months of subspecialty experiences. Because the BCRP curriculum incorporates several months of subspecialty experiences, residents may pursue a broad array of clinical and research interests during their electives, including rotations in complementary fields such as anesthesia, toxicology, transport medicine, international medicine, or surgery.

Emergency Medicine

In all three years of the training program, residents are exposed to emergency/acute illness experiences at both Boston Medical Center and Boston Children's Hospital. Both emergency departments are access points for Emergency Medical Services (EMS) transports and ambulance traffic, and receive seriously injured and acutely ill pediatric patients.

Boston Medical Center is a busy Level 1 Trauma Center. The Pediatric Emergency Department (ED) provides 24 hour attending coverage by pediatric emergency-trained
BOSTON COMBINED RESIDENCY PROGRAM

physicians, emergency medicine physicians, and 3rd year pediatric emergency medicine fellows. The BMC Pediatric ED treats approximately 30,000 patients a year, ranging in age from newborn to 21 years old. It receives more patients by EMS than any other pediatric facility in Boston. It has 12 fully equipped rooms for non-acute care, an acute care/observation area with 4 beds, and a trauma/resuscitation suite. It has 14 fully equipped rooms and a trauma/resuscitation suite.

The Emergency Department at Boston Children’s Hospital is also a Level 1 Trauma Center and provides 24 hour attending coverage by pediatric emergency-trained physicians and by 3rd year pediatric emergency medicine fellows. The Children’s ED sees more than 60,000 ill and injured children per year and has one of the premier fellowships in pediatric emergency medicine.

Resident responsibilities in both Emergency Departments include:

- Evaluation, management, and disposition of patients.
- Consultation and communication with other services and consultants.
- Disussion of cases with primary care and referring physicians.
- Performance of procedures (e.g., venipuncture, arterial puncture, spinal tap, laceration repair, abscess incision and drainage, foreign body removal, splinting, bag-mask ventilation).

Regular educational conferences occur at both Boston Medical Center and Boston Children’s Hospital, including didactic lectures, mock codes, hands-on practical workshops, and simulations.

Gastroenterology

Three primary junior residents rotate through the gastroenterology service at Boston Children’s Hospital each month with a first year fellow and attending. The resident team works alongside a separate team staffed by an attending and nurse practitioners. The rotation incorporates both inpatient and outpatient experiences to maximize resident exposure to the full spectrum of gastroenterology care. The goals of this rotation include assessment of patients with gastrointestinal complaints, the diagnosis and management of common gastrointestinal disorders, and introduction to endoscopy and other procedures unique to this specialty. All residents attend a daily didactic series before rounds that includes lectures on basic subjects including gastro-esophageal reflux disease, constipation, malabsorption, the pathogenesis of diarrhea, the diagnosis and treatment of inflammatory bowel disease, nutritional assessment, total parenteral

Residents having fun during a mock mock code

Exploring the pharmacokinetics of the chocolate bomb on GI

Team Rounds
nutrition, the approach to abdominal pain, neonatal cholestasis, and the evaluation of liver disease.

On the inpatient service, two residents, a first-year fellow, a nurse practitioner, and a gastroenterology attending manage a variety of severe gastrointestinal illnesses. Built into each month-long rotation are multiple outpatient experiences during which residents attend clinic and observe endoscopic procedures. Examples include Grow Clinic, hepatology clinic, IBD clinic, short-gut clinic, and new general GI referrals.

**General Pediatric Inpatient Services**

Every intern has at least three months of general inpatient pediatrics experience. Inpatient teams at Boston Children's Hospital (BCH) are typically location-based, allowing closer relationships with nurses, more contact with families, and less time spent commuting between floors. During the junior and senior years, residents assume a supervisory role in the care of general pediatrics patients. Supervising residents are team leaders and provide much of the bedside teaching to the interns and medical students. Inpatient ward teams are divided into “day” and “night” teams.

Organization of general inpatient services:

- BCH 9 East Gen Peds A and Gen Peds B: 1 senior resident and 2 interns (Gen Peds A), 1 junior resident and 2 interns (Gen Peds B), a nurse practitioner, 4 interns, and up to 4 medical students
- BCH 7 West Gen Peds C and subspecialty teams (Adolescent, Pulmonary, Endocrinology, Allergy/Immunology, Rheumatology): 1 senior resident and 2 interns on one team, 1 junior resident and 2 interns on the other team, a nurse practitioner, and up to 4 medical students. Resident teams switch between Gen Peds C and the subspecialties after 2 weeks.
- BCH 6 Northeast subspecialties (Hematology, Renal,

Toxicology): 2 junior residents (1 on the inpatient service, one in outpatient clinics and consult services), 1 intern, and up to 2 medical students. Junior residents spend a total of 4 weeks on the rotation, divided evenly between inpatient and outpatient/consults. Interns rotate for 2 week blocks on the inpatient side.

- Boston Medical Center (BMC) Inpatient Wards: 1 senior resident, 1 junior resident, 3 pediatric interns, 1 family medicine intern, and 3-4 medical students on a 22-bed unit. The pediatric ward team cares for general pediatrics patients and patients from subspecialty services, including endocrinology, gastroenterology, hematology, neurology, and pulmonology. The two resident teams round with the inpatient attending on alternate days, allowing increased autonomy for supervising residents.
Intensive Care Unit
Residents gain experience in Critical Care Medicine during both the PL-2 and PL-3 years. In the Children’s MSICU, junior residents serve as primary providers for medical and select surgical patients. They attend morning conferences and radiology rounds as part of a comprehensive didactic curriculum that includes formal mock code sessions delivered in the sophisticated simulator suite. Attendings conduct formal debriefings after mock codes using video footage to enhance feedback. There are also weekly sessions focused on procedures and emergency scenarios, with the assistance of simulation.

All PL-2 residents complete a four-week rotation in the 30-bed Medical-Surgical Intensive Care Unit (MSICU) at Boston Children’s Hospital. In the PL-3 year senior residents rotate in the 22-bed Medical ICU (MICU) at Boston Children’s Hospital and as the sole resident in the 6-bed pediatric ICU (PICU) at Boston Medical Center. These experiences help residents develop crucial decision-making skills. Building on concepts introduced in the PL-2 year, residents gain proficiency in the management of severe status asthmaticus, mechanically ventilated patients, hemodynamically unstable patients, patients with dangerous ingestions or toxic exposures, and patients in status epilepticus among many others. Residents also participate in advanced vascular access, airway management, and delivery of emergency medications. Faculty didactics complement the experiential learning on each unit.

Intermediate Care Program (ICP)
The ICP is a 12-bed unit on the 9 South ward at Boston Children’s that cares for patients who require more intensive nursing than can be provided on the floors. Commonly encountered disorders include diabetic ketoacidosis, severe status asthmaticus, complex medical patients requiring intensive respiratory monitoring or noninvasive ventilation, and significant electrolyte abnormalities (such as diabetes insipidus) requiring close monitoring and frequent blood analyses. The service is split into two teams, each with one senior or late-year junior resident, one intern, and one nurse practitioner that covers half of the unit (six patients). Both teams share the same attending. Resident teams round independently from the attending on a large subset of patients, providing additional supervisory skills and autonomy for juniors and seniors. One junior resident and 1 intern staff the ICP at night. The nursing staff (who care for one or two patients each) and a dedicated respiratory therapist participate actively in morning and night rounds. An interdisciplinary approach is emphasized. Given the intimate structure of the team and the higher acuity on the unit, many formal and informal teaching opportunities arise. Daily didactics focus on topics such as management of DKA, airway obstruction and respiratory compromise.

Newborn Care: Neonatal Intensive Care Unit, Newborn Nursery and Delivery Room
PL-1 year: Newborn Nursery
Interns rotate on either the well newborn hospitalist service at Brigham and Women’s Hospital or the Birth Place Newborn Care Service at Boston Medical Center. Interns are responsible for the evaluation and management of healthy newborns with the help of nurses and lactation specialists, and under the guidance of an attending pediatrician. Interns also attend didactic lectures, discussion sessions and demonstrations that focus on care of the newborn.

PL1 and Supervisory Years: Neonatal ICU
Interns and residents rotate through the NICU at Brigham and Women’s Hospital (BWH) and Boston Medical Center (BMC). The BWH NICU is a 64-bed unit divided into two 16-bed acute care pods, and two 16-bed intermediate care pods. Interns in the BWH NICU take q4 24-hour call and spend the majority of their time in the NICU caring for neonates in one acute care pod where they are supervised by a NICU fellow and attending physician. They also spend about four to five days caring for non-
critically ill neonates in the short stay unit. The BMC NICU is a 22-bed unit and the team consists of an attending neonatologist, one senior or junior resident, and two interns. There is no night call in the BMC NICU for interns and the unit is covered by a junior or senior resident at night.

Besides caring for critically ill neonates, residents obtain extensive experience in the resuscitation and stabilization of newborns at high-risk deliveries. At both sites neonatal attendings are on site 24 hours per day to provide supervision and teaching. Residents participate in a comprehensive educational curriculum including daily lectures by attending neonatologists covering common neonatal problems, such as respiratory distress syndrome, necrotizing enterocolitis, hyperbilirubinemia, and nutrition. All residents are trained in the Neonatal Resuscitation Program (NRP) during intern orientation and then recertify during their PL-2 year.

During the junior year residents rotate through the BWH NICU as the “DR1” delivery room resident — the first call to all deliveries requiring a pediatrician. The resident is responsible for attending deliveries with a NICU nurse and respiratory therapist, and for triaging newborns in the delivery room and well baby nursery.

Residents in both years recruit newborns from their newborn rotations to their continuity patient panels in their outpatient clinics.

Oncology

Inpatient oncology care at Boston Children’s is divided into three disease-specific teams: hematologic malignancy, solid tumor, and neuro-oncology.

There are two hematologic malignancy teams. One is staffed by an attending, a fellow and two PL-2 residents. Typically, they take all new diagnoses, relapses, and complications of treatment (e.g. pancreatitis, infections, etc). They also take some chemotherapy admissions and cover the ICU patients. The other heme malignancy team has an attending, two nurse practitioners and no residents. Typically, they take the long-term patients (AML, in the hospital for 4-6 months), and routine chemo admissions.

There are also two solid tumor teams: one inpatient and one outpatient. The inpatient service is staffed by an attending, a fellow, two PL-2 residents and two nurse practitioners (NP). The NPs and the residents split the patients, with NPs taking most routine chemo admissions and residents taking new diagnoses, relapses, ICU patients, and complications of treatment. Everyone rounds together but the work-flow after rounds is mainly divided into NP and resident groups. The outpatient solid tumor team is staffed by an attending, a fellow and a nurse practitioner with nom residents. They do outpatient consults, work-ups, and new diagnoses.

The neuro-oncology team consists of an attending, fellow and two nurse practitioners. They cover the inpatients, the ICU patients, and consults. Residents spend a day on the team during their Oncology block.

Goals of the rotation include: understanding common presentations of childhood cancer, management of oncologic emergencies, effective communication with families, management of febrile neutropenia, and identification and management of common complications of chemotherapy. The rotation also allows residents to gain an understanding of issues related to end-of-life care in a pediatric population. This rotation is augmented by daily didactic teaching sessions by oncology fellows and attendings, tumor boards and an outpatient experience in the Jimmy Fund Oncology Clinic at the Dana Farber Cancer Institute.

Primary Care

The newest rotation in the BCRP, the two-week junior year Primary Care immersion block was created in response to requests from residents for more contiguous outpatient time during a busy, mostly inpatient junior year. Residents hone their skills as primary care pediatricians by spending additional time in the continuity care clinics, attending multiple primary care-focused outpatient experiences, and precepting medical students during urgent care shifts. Select outpatient experiences include telephone triage for primary care clinic, audiology clinic, gastrostomy tube
clinic, growth and nutrition clinic, lactation clinic, NICU follow-up clinic, and young parents program.

**Pulmonary**
Interns spend 1 or 2 months of the PL-1 year on the Pulmonary service. The inpatient Pulmonary team consists of four interns, a pulmonary fellow, a nurse practitioner and an attending. Interns are responsible for pulmonary patients with a wide range of conditions including complicated asthma, interstitial lung disease, pulmonary hypertension and cystic fibrosis, as well as issues surrounding lung transplantation. Pulmonary fellows and attendings teach a morning curriculum Monday through Friday. Interns spend a week of the month in the outpatient pulmonary clinic evaluating and managing new patients. Afternoons during this week are spent in the PFT lab, performing consults, or participating in procedures such as sweat tests and bronchoscopies. Interns take q4 24-hour call during this rotation.

**Stem Cell Transplantation**
Most junior residents spend a two week, call-free block as part of the 13-bed inpatient hematopoietic stem cell transplantation (SCT) team at Boston Children’s Hospital. This is an opportunity to take responsibility, under the supervision of a fellow and attending, for patients preparing for and recovering from autologous or allogeneic transplants and those readmitted for complications following SCT. Rotation goals include: understanding the indications for SCT, donor selection, anticipated complications and time course relative to transplant, long-term effects of transplant, and the psychosocial challenges faced by children and families undergoing intensive therapy and long hospitalization. Besides the junior resident the team members include: a SCT attending, one first-year fellow, a nurse practitioner, and a pharmacist. The overnight call is covered by a heme/onc attending or fellow. The resident and nurse practitioner evenly divide the patients and are responsible for pre-rounding, presenting on rounds, writing daily notes, reviewing all radiologic and pathologic studies and running weekly family meetings. The rotation includes daily morning teaching sessions, a weekly SCT staff development conference and the Longwood Medical Area SCT conference.

**TEACH**
TEACH is a two week rotation for junior residents focused on developing supervisory skills and didactic and clinical teaching skills. It is call-free with some scheduled activities (including delivering a chalk talk, leading a noon conference, practicing feedback and precepting medical students) balanced with flexibility to allow individualization of each resident’s career goals. Residents receive guidance from a mentorship pair consisting of a faculty member and a Chief Resident.

**Night Call and Night Float Teams**
Patients admitted to each of the general pediatrics services at Boston Children’s and BMC receive care at night from a dedicated “night team” consisting of an intern and supervising resident. Each “night team” rotation lasts two weeks, affording the team continuity of care and consistency between the intern and the supervising resident. On average, interns have two 2-week “night team” rotations on a general pediatric service over the course of the year. On-call rooms and meal allowances are provided for house officers on night duty.
Extended Shifts
For rotations that do not employ "night teams", residents take in-hospital call every 4th night. On-call rooms and meal allowances are provided for house officers on call at all three hospitals. All rotations in the BCRP are in full compliance with the ACGME work hour regulations.

Longitudinal Ambulatory Experiences

Primary Care Experience
Longitudinal primary care clinic experiences at a variety of urban sites allow BCRP residents to foster the physical, intellectual and emotional growth of patients in their own panel, as well as to manage the course of certain diseases and therapies over an extended period of time. Residents care for children of all ages and children with diverse medical problems.

Continuity sites are available in hospital and community settings as well as a number of private practice locations. From the primarily Spanish-speaking clinics at Martha Eliot Health Center and East Boston Neighborhood Health Center to the Young Parent Program (YPP) continuity clinic at Boston Children's Hospital, residents may choose to tailor their longitudinal experiences based on their interests while enjoying exposure to a diverse, multicultural patient population.

Residents in the Categorical track devote one afternoon each week throughout the three years to their primary care practice. Similarly in the first year, Urban Health and Advocacy track (UHAT) residents spend one afternoon each week in their continuity sites. Throughout the second and third years of residency, UHAT residents select an additional half-day experience to augment their scholarly or advocacy interests; these may take the form of a second continuity clinic or an afternoon dedicated to their longitudinal UHAT projects.

Longitudinal Subspecialty Experience
The BCRP is invested in developing a longitudinal subspecialty experience whereby residents can achieve early and sustained exposure to outpatient subspecialty medicine.

During the PL-3 year, residents may choose to participate in a longitudinal subspecialty clinic in place of their primary care clinic. In 2019-2020 residents will participate in longitudinal subspecialty experiences at both affiliated hospitals in subspecialties including allergy/immunology, cardiology, endocrinology, genetics, gastroenterology, hematology, nephrology, neuro-oncology, neurology, oncology, pain medicine, pulmonary and rheumatology, and with the critical care, anesthesia, perioperative, extension (CAPE) team.
Electives and Funding Sources

Many different elective opportunities are available at both Children’s Hospital and Boston Medical Center, including experiences in clinical care, research, medical education, clinical outcomes and advocacy. In addition, residents can select a variety of international experiences.

Residents may apply to a variety of competitive scholarships to further support their elective and research pursuits (see table). Examples of available scholarships are outlined in the table below. Of note, the number per year and amount granted varies from year to year. The Departments of Pediatrics at Children’s Hospital and the Boston Medical Center award scholarships for travel to national meetings such as the American Academy of Pediatrics, the Pediatric Academic Societies, the Association of Pediatric Program Directors, and meetings of subspecialty societies. UHAT residents are granted

<table>
<thead>
<tr>
<th>Award</th>
<th>Granted By</th>
<th>Eligibility</th>
<th>Description</th>
<th>Time Frame</th>
<th>Amt.</th>
<th>No.</th>
<th>Contact</th>
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</thead>
<tbody>
<tr>
<td>Alumni Association Travel Award</td>
<td>Alumni Association</td>
<td>Residents and fellows. Only one nomination per program</td>
<td>Expenses associated with attending a scientific meeting</td>
<td>Spring</td>
<td>$1,000</td>
<td>4</td>
<td>Jane Newburger</td>
</tr>
<tr>
<td>Farley Award</td>
<td>MSEC</td>
<td>Residents and fellows. Must be nominated by Div Chief</td>
<td>Deserving housestaff as a hospital contribution to the std salary and benefits for their PGY level</td>
<td>Spring</td>
<td>$5,000</td>
<td>10</td>
<td>Justin Laughton</td>
</tr>
<tr>
<td>Global Health Travel Award</td>
<td>BCH Global Health Dept.</td>
<td>Residents and fellows</td>
<td>Travel to direct clinical care, education, mentorship or to participate as part of a larger program</td>
<td>March &amp; Oct</td>
<td>~$2,000</td>
<td>Unk</td>
<td>Christiana Russ</td>
</tr>
<tr>
<td>Harvard Macy Course for Trainees Scholarship</td>
<td>Harvard Macy Program</td>
<td>Residents or fellows who are strongly committed to an educational career in the academic health professions and have at least 1 year of post-graduate training.</td>
<td>Participants with at least one year remaining in their training program</td>
<td>Tuition Cost ($1,800)</td>
<td>Varies</td>
<td>Varies</td>
<td>Alan Leichtner</td>
</tr>
<tr>
<td>Lovejoy Research Award</td>
<td>BCH Dept of Pediatrics</td>
<td>BCRP residents</td>
<td>Research project</td>
<td>Spring &amp; Fall</td>
<td>Varies</td>
<td>Varies</td>
<td>Elayne Fournier</td>
</tr>
<tr>
<td>Joel and Barbara Alpert Grant</td>
<td>Joel and Barbara Alpert Endowment for the Children of the City</td>
<td>Residents and fellows</td>
<td>Projects that innovate and transform pediatric health care delivery and improve child health outcomes. Must include evaluation</td>
<td>Spring</td>
<td>Up to $3,000</td>
<td>Varies</td>
<td>Carey Howard</td>
</tr>
<tr>
<td>Palfrey Advocacy Fund</td>
<td>General Pediatrics/Global Health</td>
<td>Residents and fellows</td>
<td>For local or global advocacy projects to improve child health</td>
<td></td>
<td>$2,500</td>
<td>2</td>
<td>Christiana Russ</td>
</tr>
<tr>
<td>Paul Schlesman Memorial Award</td>
<td>BCH Dept of Pediatrics</td>
<td>BCRP residents</td>
<td>Travel to a third world country to work in primary care</td>
<td>June</td>
<td>$400-$1,000</td>
<td>Varies</td>
<td>Ted Sectish</td>
</tr>
<tr>
<td>PSQ GME Trainee Education Committee QI Grants</td>
<td>PSQ GME TEC</td>
<td>Residents or fellows in any program. Medical students working with a resident or fellow</td>
<td>For trainees to initiate new PSQI projects or enhance existing projects</td>
<td>Feb, June, Oct</td>
<td>Actual costs up to $5,000</td>
<td>Varies</td>
<td>Teri Noseworthy and Mari Nakamura</td>
</tr>
<tr>
<td>Von L Meyer Travel Award</td>
<td>MSEC</td>
<td>Residents or fellows in an ACGME accredited program</td>
<td>Educational travel for study in any specific area of individual interest</td>
<td>Late Fall</td>
<td>$500</td>
<td>Varies</td>
<td>Justin Laughton</td>
</tr>
<tr>
<td>Work/Family Balance Fund</td>
<td>BCH Dept of Pediatrics</td>
<td>BCRP residents</td>
<td>For work/life balance of residents who have financial needs or family activities</td>
<td>Sept</td>
<td>Varies</td>
<td>Varies</td>
<td>Ted Sectish</td>
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</table>
$1000 annually to invest in tools and experiences that contribute to their pediatrics education, including costs incurred from clinical electives or to support research and community projects.

**Individualized Curriculum**

Each resident will have six months of an Individualized Curriculum consisting of three months of the Academic Development Block and three months of other rotations relevant to his or her future career. The six months are distributed approximately as follows, with some variation from year to year:

- **PL-2 Year**: 1.5 to 2.5 months
- **PL-3 Year**: 4.5 to 5.5 months (includes 3 months of ADB time).

**Mentoring and Individualized Curriculum**

Each BCRP Academy is supported by a group of faculty members who have demonstrated an interest in serving as mentors and advisors for residents within the Academies.

**Academic Development Block**

One of the standout aspects of the BCRP curriculum is the Academic Development Block (ADB), an innovative, multifaceted experience for PL-3 residents to explore and foster their academic interests. This 3-month rotation is unique to the BCRP and is designed to allow residents to customize their training to attain the skills, experience and knowledge necessary to further their careers. The ADB contains a core seminar curriculum and allows significant dedicated time for individualized mentored research, education, quality improvement or advocacy projects.

The core curriculum, delivered in the second week of each block, is designed to augment knowledge gained during the first two years of residency and is directed towards fostering lifelong learning and skills-building; topics range from discussions about critical appraisal of the medical literature, understanding health care for children in the context of local, state and federal policies, and navigating academic promotion systems. It focuses on skills such as:

- Creating and applying new knowledge — research study design, biostatistics, epidemiology, evidence-based medicine, literature searching and human subjects considerations for children.
- Health care policy and environment — health care disparities, economics and funding, delivery systems, and resource allocation.
- Molecular Medicine — future “hot” areas of basic science research.
- Organization and quality of care — quality improvement, patient safety, and legal issues in the practice of medicine.
- Career-building — writing your CV, negotiating your first job, exploring avenues for future research funding, and non-traditional career paths.

These sessions are led by expert faculty from both institutions and include basic and clinical researchers with interests in translational medicine, clinical and outcomes research, public policy and advocacy, and medical education, as well as successful social entrepreneurs and community advocates.

The second major component of the block is protected time for residents to focus on research, medical education, quality improvement, community advocacy experiences, or more in-depth, individualized clinical experiences. Residents meet regularly with faculty mentors throughout ADB to design their projects and organize their time. Senior residents have used their ADB time in a wide variety of ways to explore career alternatives, start or complete a primary research project, or lead a unique endeavor that will enhance and expand their training (and that often contributes to the training of other residents). The diversity of ADB activities reflects the diversity of interests and career paths of our residents.

Over the past six years, the results from approximately half of the projects have been presented at national meetings and/or culminated in a peer-reviewed publication.

**Examples of Recent Projects**

- Quality improvement project to ensure limited English proficiency families have access to in-person interpreters on family-centered rounds.
- Design of an online, interactive simulation platform to help teach appropriate responses to urgent and emergent overnight clinical scenarios.
- Estimating the financial burden of accidental buprenorphine ingestion.
- Retrospective review of cases of aspiration pneumonia in the emergency room setting.
- Investigation of yield of lumbar puncture for meningitis following status epilepticus.
- Weight perception and unhealthy weight control behaviors among gay, lesbian and bisexual youth.
- Examination of fatty acid binding protein 4 expression in lymphatic malformations.
- Retrospective study of risk factors for fatal and non-fatal pediatric firearm injuries in the United States.
- Study of vaccine coverage and parental attitudes on immunization in India.
- Retrospective clinical review combined with blinded
bone marrow re-review to define clinical predictors of failure for patients with aplastic anemia treated with immunosuppressive therapy
• Investigation of seroconversion rates following double dose hepatitis B vaccine among HIV-infected children and adolescents
• Review of colonoscopies to determine agreement between endoscopic assessment of mucosal findings and pathologic findings on biopsy
• Genomics/proteomics approach to characterized differences between adults with acute myelogenous leukemia
• Summary of common practices in diagnosis and treatment of malaria in Nigeria
• Examination of methenyltetrahydrofolate dehydrogenase 2 as a target for treatment in acute myelogenous leukemia
• Chart review on aortic regurgitation after interventions for aortic stenosis in staged palliation of hypoplastic left heart syndrome
• Discovery and validation of role of mobile genetic elements in malignant rhabdoid tumors
• Retrospective chart review of TNF-inhibitors in refractory uveitis
• Educational trial examining different methods of teaching simulation and development of longitudinal residency simulation curriculum
• Completion of a study of procalcitonin as a test for serious bacterial infection among febrile infants
• Effect of pump type on mortality during pediatric ECMO
• Development of a pediatric training curriculum in Liberia
• Effect of hydroxyurea on emergency department visits in patients with sickle cell disease
• Study of long-term pulmonary artery stenosis after repair of aberrant pulmonary artery in infancy
• Effect of cranial radiation on growth hormone and parathyroid hormone abnormalities.
• Effect of pump type on mortality during pediatric ECMO
• Prospective multi-center study of bronchiolitis admissions
• Health needs assessment of orphaned children in Malawi

Residents work closely with senior faculty

Education

Education First

Education is a priority in the BCRP. From Grand Rounds by world-renowned specialists to impromptu overnight clinical instruction, teaching and learning permeate all aspects of residents’ daily lives. At both BMC and BCH, there are daily protected teaching rounds and noon conferences that foster discussion and debate between residents and faculty. Through Family Centered Work Rounds, residents benefit by learning directly from senior faculty, fellow residents, and their patients at the bedside.

Residents are also given the opportunity to learn to teach right from the start, cultivating their skills as teachers and reinforcing their own knowledge through the art of teaching. Our Boston University and Harvard medical students consistently identify residents as one of the most important sources of instruction. As part of our commitment to case-based teaching, residents supervise medical student patient encounters all the way from the initial history through the presentation on rounds.

Resident Involvement in Curriculum Design

Through the Residency Program Training Committee and the Medical Education Academy, resident feedback and input are driving forces behind changes in the curriculum, which is evolving to meet the educational needs of the residents. Recent resident-led innovations in the BCRP curriculum include restructuring the oncology subspecialty junior year rotation in order to enhance the on-service educational experience, developing a TEACH
rotation, creating an Admit rotation to protect sign-out time for inpatient residents while allowing increased autonomy, developing a Primary Care rotation for the junior year, creation of a racial justice seminar, creating a Mental Health Block to familiarize residents with the evaluation and treatment of children with behavioral and mental health conditions, and revision of the BCRP handbook which provides comprehensive review materials for residents, and more.

Educational Opportunities
Below are brief descriptions of the daily educational opportunities that have been built into the residency. This collection of case presentations, conferences and lectures work in conjunction to augment the learning that occurs organically through patient care. While this list is relatively comprehensive it is certainly not exhaustive. Residents can always avail themselves of the multiple educational opportunities within Harvard, Boston University and the city of Boston itself.

Medical Grand Rounds
Weekly Grand Rounds at both institutions provide exposure to leading clinicians and researchers providing cutting-edge information about their areas of expertise. Grand Rounds features topics from multiple areas of medicine including clinical topics, basic science research, global health, social determinants of health, narrative medicine, and public policy.

Conferences - Boston Children’s Hospital
BCH Noon Conferences
Based on feedback from residents, the Medical Education Academy revamped the noon conference curriculum over the past few years. The curriculum now features two-week subspecialty blocks, with each noon conference covering a topic within the specific subspecialty. The sessions are given by a combination of residents, chief residents, fellows known for their excellent teaching skills and expert faculty. Conferences employ a wide variety of educational formats, including traditional didactic teaching, case-based learning, hands-on/skills sessions, and educational games. A fantastic lunch is provided daily. There are daily e-mails sent out with a boards prep question relevant to that block’s subspecialty.

Senior Rounds
This daily conference is perennially one of the highest rated educational experiences at the BCRP. A chief or senior resident is charged with presenting a recently admitted patient with an unusual or unknown diagnosis. A discussion between the residents and senior faculty follows, with a focus on differential diagnosis, management and prognosis, as well as nuances in the individual case, which frequently prompt significant discussion. Priorities include developing generalizable lessons from unusual cases as well discussing unusual presentations of common diseases. Faculty from different specialties attend on different days, and are invited at the beginning of the year by the chief residents (considered a true honor by faculty).

Morning Report
This is a weekly conference on Friday mornings that occurs in place of Senior Rounds. One of the senior residents currently on general pediatrics night float presents an interesting patient admitted during the past week. He or she leads an informal discussion among interns, residents, chief residents and faculty focusing on diagnosis and management. While the conference does not always yield a diagnostic or therapeutic solution, the discussion often aids in the patient’s care.
Intern Report
This is a very popular conference one morning a week exclusively for interns. An intern presents a case and leads a discussion on differential diagnosis, work-up and management. A chief resident attends to participate in the discussion as well.

Subspecialty Conferences
While on certain rotations – pulmonary, GI, cardiology, oncology, ICP, and MSICU – residents attend daily morning lectures organized by that department. These sessions are led by the subspecialty fellows or faculty and cover a range of topics within that subspecialty.

Conferences – Boston Medical Center
BMC Noon Conferences
Noon Conference at BMC occurs daily and the curriculum parallels the two-week subspeciality blocks described above in BCH Noon Conference. Similar topics are covered simultaneously at both hospitals, so residents will have comparable learning no matter what rotation they are on. Chief residents and expert faculty lead the sessions. Residents can draw from the experiences and knowledge of the many senior faculty members who attend. Conferences employ a wide variety of educational formats, including traditional didactic teaching, case-based learning, hands-on/skills sessions, and educational games. Simulation and mock codes are incorporated frequently. A delicious lunch is provided daily.

Case of the Week
This weekly presentation at Boston Medical Center is organized and moderated by senior residents. The cases are current or recently discharged patients chosen to illustrate specific topics. The resident selects the case and works with a subspecialty faculty member(s) to develop the conference. All residents rotating at BMC, as well as the pediatric faculty, attend the presentation.

Morning Report
This morning conference occurs three times per week. On Monday mornings, the night team presents an interesting admission from overnight and leads a discussion on differential diagnosis, work-up and management. On Tuesday and Wednesday mornings, there are lectures for the interns focused on general pediatrics topics.

Monthly Conferences
Research, Advocacy, and Policy (RAP) Series
RAP is a monthly seminar organized by senior residents for UHAT residents. UHAT residents have protected time to attend these sessions and are freed from their clinical duties for the afternoon when their schedule allows. The seminar topics vary based on senior resident interests, and they invite community leaders to speak with and teach residents. Past topics have included lobbying around health and housing policy, featuring a Massachusetts lobbyist to run a skills session on effective communication with members of Congress. Other sessions have included housing options within the Boston area for those with housing insecurity, reproductive rights and how to advocate around them, weight bias, using geo-mapping to identify food deserts and high-risk areas of obesity, youth violence in the Boston area, and more. The RAP series is one of the UHAT residents’ favorite seminars of the year, highlighting work that residents are passionate about in addition to introducing community and national leaders to our residency.

Basic Science Journal Club/Seminar
In this bi-monthly conference, a resident selects a basic science article that illustrates a fundamental advance and has translational implications. He or she prepares a seminar designed to teach broadly about the topic as well as focus on the article or articles distributed in advance. One or two experts from the Boston area are selected by the presenter and invited to sit in and contribute to the discussion. Examples of recent topics include: highly specific new anesthetics, pitfalls in analysis of genomic data, auto-inflammation from escaped DNA, genomic screening for autism, microRNAs, diabetic autoimmunity, peptidomimetics, long QT syndrome, use of gene expression in new drug discovery, gene editing, and the molecular basis of gastrointestinal development.

Clinical Science Journal Club/Seminar
Similar to the Basic Science Journal Club, the Clinical Science Journal Club is a bi-monthly conference, moderated by a resident, who selects and presents a clinically based research article with support from specific faculty. He or she prepares a seminar on the topic designed to foster a larger discussion of evidence-based
clinical decision making. Besides discussing the clinical material, each session focuses on a specific biostatistics topic. Examples of recent topics include: a new targeted therapy for certain cystic fibrosis gene mutations, acyclovir after neonatal herpes, and screening for neuroblastoma.

Resident-as-Teacher

The BCRP emphasizes the vital role that residents play in teaching medical students from Harvard and Boston University Medical Schools during their pediatric clerkships and other residents during supervisory rotations. This important role in teaching helps prepare residents for their future careers as educators to colleagues and patients. To help residents become successful in these roles, educational sessions during rising intern, junior and senior orientations and during program-wide retreats are dedicated to exercises on effective teaching, such as teaching at the bedside, use of the “one minute preceptor”, giving effective feedback, and delivering effective presentations.

In addition, a formal TEACH rotation has been developed for junior residents. During this rotation, residents learn about adult learning theory and practice many methods of teaching, including leading senior rounds, chalk talks, and bedside physical exam rounds. They also develop their supervisory and feedback skills, with hands-on experience, including precepting medical students in the primary care setting. Residents are also paired with a faculty mentor and chief resident who are dedicated to giving constructive feedback on their teaching methods and helping them discover their supervisory style.

Finally, residents take the lead in presenting at many of our conferences, including Senior Rounds, Morning Report, Intern Report, Basic and Clinical Journal Clubs, Health Equity Rounds, and in selected Grand Rounds. These programs and experiences contribute to an atmosphere in which teaching is highly valued. As a result, medical students from both institutions regularly recognize members of our housestaff with accolades and formal teaching awards.

Leadership Seminar

Historically, medical schools and residencies have not given residents adequate skills and teaching to become great managers and leaders. A longitudinal leadership curriculum has been developed to formally train residents to be leaders in the field of pediatrics, both clinically and in career-specific interests. Residents will learn about leadership theories, explore concepts in social and emotional intelligence, and acquire skills in negotiation and managing teams. They are also assigned leadership mentors with whom they meet quarterly to discuss supervision, career aspirations, and leadership both within and outside of the medical setting.

Retreats

Semiannual, day-long, house staff retreats allow residents to reflect on their clinical experiences and on the training program and to obtain new skill sets. Topics have ranged from leadership sessions with respected faculty members discussing important leadership strategies, to redefining success and meaning in medicine, to health policy with experts in the field coming to discuss the changes to the Massachusetts system, and much more. Interns also attend a protected 2-day retreat in the fall of their intern year to allow for class bonding time. There are also rising junior and rising senior full day retreats in the springtime that cover topics for the upcoming year.

Simulators

Boston Children’s Hospital has invested in large, amazing, state-of-the-art, high-fidelity simulator programs to optimize learning in the acute care setting. Children’s Simulator Suite is a faithful reproduction of an intensive care unit bed space. The suite is outfitted with gas outlets, medical equipment, and both pediatric and infant patient
simulators. Next to the simulated patient room is a video control room linked to a conference room through closed circuit cameras for video-based debriefing sessions. The PL-2 year ICU rotation features weekly mock codes led by the residents with video debriefings. In addition, there are frequent procedure sessions led by the ICU fellows to practice procedures such as intubation, central line placement, and chest tube placement.

At BMC, simulation sessions occur either in a similar simulation suite or in the PICU by using a portable SimBaby, which can simulate a range of conditions and enables a number of procedures from intubation to IV placement.

Given the importance and complexity of running a code well, the practice of mock codes is not restricted to ICU rotations. They are scheduled throughout the intern, junior and senior years. The focus is on increasing skill level over time, knowing how and when to call for help and importantly, the basics of good communication in running a successful code.

**Role of Fellows**

Many of the fellowships at Boston Children’s Hospital are the best in their specialty, and the hospital has many fellows who are exceptional clinicians, teachers and individuals. They provide invaluable assistance in teaching about and caring for complex patients. Fellows are not residents, however, and they do not assume resident roles. Most residents feel that the fellows are an integral part of their education and augment their clinical experience through dedicated and impromptu teaching sessions. While all subspecialty services have fellows as part of the care team at BCH, there is minimal fellow presence at BMC with a few exceptions (ID, Neurology and Emergency Medicine departments).

**Libraries**

The Children’s Hospital Library and Archives have recently moved to the 5th floor of the Longwood Center at the corner of Brookline and Longwood Avenues, midway between the hospital and the clinical research complex on Autumn Street. It is a quiet respite with private carrels, computer work stations, collaboration rooms for 6 to 10 people with AV capacity for presentations, and other work and reading areas. The library offers a wide range of services including various databases, Up-To-Date, End Note, Mendeley, many electronic journals, free copying, scanning and printing facilities, and interlibrary loans. Laptops are available for loan. Staff librarians can assist you with performing complex literature searches, whether for immediate patient management or for ongoing research. They also offer introductory seminars on the use of EndNote, Mendeley, and PubMed for interested residents.

The Francis A. Countway Medical Library at Harvard Medical School, next door to Children’s Hospital, is one of the world’s largest medical libraries. The library holds over 630,000 volumes, subscribes to 3,500 current journals, of which over 1,500 are available in electronic form, and houses over 10,000 non-current journal titles. All the library's resources are available to residents, and all electronic journals articles can be downloaded as pdf files. Many electronic textbooks and other electronic databases, such as MD Consult are also available to BCRP housestaff. All electronic resources are available over the internet from home. The Countway also offers access to the extraordinary library resources of Harvard University and an exceptional History of Medicine collection.

The Boston University School of Medicine Alumni Medical Library is a state-of-the-art library that serves the faculty, staff and students of the Boston University schools of Medicine, Dental Medicine, Public Health, and the Boston Medical Center. Besides its excellent medical collection, it has over 1500 online journals and 30 current, clinical electronic textbooks available to all residents.
Medical Information Systems

Timely retrieval of clinical information is a priority for house officers. An integrated electronic hospital information system is available at both institutions to provide state-of-the-art information management. All vital signs and flowcharting, imaging, laboratory results, diagnostic studies, documentation by all outpatient and inpatient clinical services, physician orders, prescriptions, and drug formularies as well as some decision support capabilities exist in our electronic health records (EHR).

Children’s Hospital recently received HIMSS Analytics Stage 7 award for being completely paperless, putting it in rare company. Integrated email and paging systems facilitate communications across both sites. Residents play an important role in the implementation of the EHR and the improvement of these systems.

Highly secure remote access to both the Boston Medical Center and Children’s Hospital systems is available to all residents 24 hours per day, including records, lab results, radiology images, and paging. In addition, the BCRP website provides password-restricted access to useful information for residents such as colleague contact information, rotation survival guides, upcoming schedules and announcements, and a database of useful articles and presentations.

Research

Boston Children’s Hospital
Children’s is home to the world’s largest and most active pediatric research enterprise and one of the largest research programs of any independent hospital. The hospital has $368 million in research funding per year and more than 1,000,000 square feet of state-of-the-art laboratory space. The research mission of Children’s Hospital encompasses basic research, clinical research, community service programs and the training of new scientists. Our 740 investigators include 8 members of the National Academy of Sciences, 21 members of the National Academy of Medicine, 23 Fellows of the American Academy of Arts and Sciences, and 10 members of the Howard Hughes Medical Institute (HHMI).

are part of Children’s truly extraordinary research community. Two recent HHMI Investigators relinquished their positions to become Dean of the Harvard Medical School (George Daley) and Scientific Director of HHMI (David Clapham). Over the years, four Children’s investigators have won the Nobel Prize and six have won the nearly equally prestigious Lasker Award.

Boston Medical Center
BMC is nationally recognized for clinical, health services, and policy research as it relates to low income and minority children. Areas of research include child development and early literacy, perinatal epidemiology, gene-environment interactions and low birth weight, the impact of policy, such as welfare reform, housing and nutrition on health, prenatal drug exposure on child health and development, HIV/AIDS in children, the use of information technology to improve quality, environmental health and international and immigrant health.

Quality of Research
The quality of the research done by Children’s Hospital and Boston Medical Center faculty is especially impressive. During the ten years from 2006 to 2015, researchers from Children’s published more than 7 times as many papers in the top three basic science journals than any other pediatric program, and 2.4 times more than the top 20 ranked pediatric programs combined! The proportion of papers published in the top 30 basic science journals exceeded all the Boston ‘adult’ hospitals and all medical schools (including their basic science departments), except for Stanford. Indeed, when the 2006-2015 papers of the full-time faculty at the Whitehead Institute (17 members) and the top 17 faculty researchers at Boston Children’s Hospital are compared, the Children’s faculty published 13.9% of their papers in Cell, Science or Nature, while the Whitehead faculty proportion was only 4.6%.

Similarly, in clinical research BCRP researchers published 2.6 times more papers in the top three clinical journals
(New England Journal of Medicine, JAMA and Lancet) than the next best pediatric program. Indeed, at Boston Medical Center 3.8% of pediatric papers during 2006 to 2015 appeared in these three journals, compared to an average of just 0.58% for the other top 20 ranked pediatric institutions. Thus, by any measure, the quality of the research at Boston Children’s Hospital and Boston Medical Center is world class.

Research is an active aspect of the residency program as well. This is reflected in the high proportion of residents with previous research experience, the enthusiasm of the residents for their journal clubs and their own research, and just by conversations in the hallways or at rounds. Many outstanding physician-scientists and general academic researchers serve as attendings and they also help focus on the interplay between science and medicine.

Resident Research

Although there is no formal research requirement, many residents do research, particularly clinical research during their training. Children’s Hospital and Boston Medical Center both have federally funded General Clinical Research Centers (called the Experimental Therapeutics Unit at Children’s), and outstanding Institutional Centers for Clinical & Translational Research, with biostatisticians, epidemiologists, and o

Children’s is also part of Harvard Catalyst, a consortium of Harvard hospitals and resources dedicated to clinical research. The Harvard Catalyst provides incredible resources for interconnecting investigators with common interests across the Harvard community and has introduced very powerful tools that facilitate clinical research, such as the Shared Health Research Information

BCRP faculty who belong to the National Academy of Sciences (NAS), National Academy of Medicine (NAM), Howard Hughes Medical Institute (HHMI), or are Fellows of the American Academy of Arts and Sciences (AAAS)

(BIDMC, Beth Israel Deaconess Hosp; BMC, Boston Medical Ctr; BWH, Brigham & Women’s Hosp; Broad, Broad Inst; BCH, Children’s Hosp Boston; DFCI, Dana-Farber Cancer Inst; HMS, Harvard Med School; HSPH, Harvard School of Public Health; Wyss, Wyss Inst for Biologically Inspired Engineering,)
Residents present at national conferences every year


Autophagy is an intercellular pathway that is essential to the development and function of all major organs. Disorders of this pathway offer a unique opportunity to understand the importance in health and disease – a concept that recent residents Lara Wahlster and her husband, Darius Ebrahimi-Fakhari, explore on a clinical, genetic and molecular level. While Lara’s work has focused on congenital anemias and hematopoiesis, Darius is interested in neurogenetic diseases and movement disorders. Their scientific paths often cross around autophagy.

Working with George Daley at Children’s Lara generated hematopoietic progenitor cells from induced pluripotent stem cells of patients with Diamond-Blackfan anemia (DBA). Using an unbiased chemical screening she helped identify SMER28, a small molecule inducer of autophagy that enhances erythropoiesis in a range of in vitro and in vivo models of DBA (Nat Cell Biol). These findings point to autophagy as a therapeutic pathway in DBA (Sci Transl Med). As a resident in the accelerated research pathway, Lara worked with her mentor and former BCRP graduate Vijay Sankaran to identify genetic variants that affect engraftment and clinical outcomes after stem cell transplantation.

As a student in the lab of Pamela McLean at MGH, Darius became interested in the role of autophagy in neurons, when he found that the Parkinson’s disease associated protein α-synuclein is targeted by this pathway (J Neurosci. Autophagy). In Mustafa Sahin’s laboratory at Children’s, he used Tuberous Sclerosis Complex (TSC) as a genetically tractable model of mTORC1-dependent autophagy in neurons (Cell Rep). For this work, Darius was awarded the Outstanding Junior Member Award from the Child Neurology Society and the Outstanding Investigator Award from the German Society for Pediatric Neurology. In addition, Darius has led several clinical research projects aimed at understanding rare genetic movement disorders associated with PRRT2 mutations (Neurology, Brain) and more recently hereditary spastic paraplegia type SPG47, a disorder again linked to deficits in autophagy. Most of his work is inspired by patients and families that he cared for as a medical student and as a BCRP resident.

In other studies, Lara and Darius collaborate on diseases that share both hematologic and neurological problems, such as the lysosomal storage disorders (Hum Mol Gen). Following their research and clinical interests, Lara began a Hematology/Oncology Fellowship this year and Darius joined the Child Neurology Residency after graduating from the BCRP.

- Mgbako O, Park SH, Mayer KH, Schneider JA, Goedel WC, Hambrick HR, Duncan DT. Transactional Sex and Preferences for Pre-Exposure Prophylaxis (PrEP) Administration Modalities
As an MD/PhD student at Yale, recent resident Emily Bucholz studied socio-demographic disparities in health outcomes and quantified the long-term impact of quality metrics on patient life expectancy. She continued her work in quality measurement as a pediatric resident in the Integrated Research Pathway (IRP) studying pediatric readmissions under the mentorship of Dr. Mark Schuster and Dr. Jay Berry. Her work focused on characterizing the timing and causes of pediatric readmissions as well as the association of pediatric and adult readmissions and trends over time. The goal of this research was to better understand when children are at greatest risk of readmission, how patterns of readmission vary by index diagnoses and causes of readmission, and whether large-scale readmission efforts in adult populations have had an effect on pediatric readmissions. In addition, she continued to investigate socio-demographic disparities in health outcomes among children with single ventricle heart disease and disparities in cardiovascular risk factor awareness among young adults. She has been awarded young investigator awards by both the American Heart Association and the American College of Cardiology; and more recently, her work evaluating the relationship between hospital performance and patient life expectancy (N Engl J Med) was awarded one of the Top 10 Clinical Research Achievement Awards of 2017 by the Clinical Research Forum. Emily is currently a pediatric cardiology fellow stationed at Boston Children’s Hospital.


2018

Dark Matter of the Cancer Genome

After completing undergraduate degrees in English literature and history, recent resident John Prensner embarked on a career shift towards the sciences. He took a research position at the then newly-minted Broad Institute of Harvard and MIT and became absorbed in the study of cancer genomics. He followed this by enrolling in the MD/PhD program at the University of Michigan in Ann Arbor, where he completed his dissertation work under the mentorship of Arul Chinnaian. For his research, John delved into the “dark matter” of the cancer genome—the 98% which is not known to produce proteins and has few described functions. John’s work pioneered the use of next generation sequencing in human cancer research and used human prostate cancer samples to delineate an unknown network of long non-coding RNAs (lncRNAs). He discovered PCAT1 as a lncRNA that controls cell proliferation (Nat Biotechnol), functioning as a sponge that interferes with the ability of one microRNA to degrade the cMYC oncoprotein (Neoplasia). He further found a separate function of PCAT1 as a regulator of genome maintenance through antagonism of the BRCA2 tumor suppressor gene (Ca Resch). He then defined the SChLAP1 IncRNA as a central mediator of cancer cell invasion and metastasis, functioning by blocking the SWI/SNF epigenetic complex and altering cell gene expression globally (Nat Genet). He also showed that SChLAP1 expression is one of the single best clinical predictors of prostate cancer relapse, metastasis, and death (Lancet Oncol). He was able to translate these findings into two patents with one commercial biomarker assay developed. As a BCRP resident, John continued his research efforts back at the Broad Institute, under the mentorship of Todd Golub, where he worked to characterize a class of unknown proteins, termed micropeptides, and how these micropeptides offer new clinical and therapeutic angles for translational cancer science. In other studies, John has been a collaborator on efforts to translate genomics to pediatric clinical medicine (JAMA) and previously studied pediatric cancer patients who had their genomes sequenced (Pediat Blood Cancer). John is currently a pediatric hematology/oncology fellow at Boston Children’s/Dana-Farber Cancer Institute.


BOSTON COMBINED RESIDENCY PROGRAM

occurrence and severity of neurodevelopmental burden (cognitive impairment, cerebral palsy, autism spectrum disorder, and epilepsy) at age ten years in children born extremely preterm. Pediatr Neurol. 2018;79:45-52.


Research Tracks
The BCRP supports both research pathways approved by the American Board of Pediatrics.

Accelerated Research Pathway (ARP)
This pathway is for residents committed to an academic career as a physician-scientist. It allows the resident to complete pediatrics training in two years in exchange for adding an extra year of research as a fellow. Since almost all fellows training to be physician-scientists do more than three years of fellowship research anyway, this is an attractive pathway.

Integrated Research Pathway (IRP)
This pathway is open to those with MD/PhDs. The pathway allows residents to combine 24-months of clinical residency with up to 12-months of research, beginning after the PL-1 year. At least 5-months of the research must be in the PL-3 year.

These pathways are described in detail in the American Board of Pediatrics website.

Eligibility for Research Tracks
Technically, intern applicants cannot be guaranteed acceptance into these pathways before the beginning of their internship since clinical performance and PL-1 in-service exam scores are used to judge a candidate’s suitability for accelerated training. However, nearly all residents who wished to pursue one of these pathways over the past decade have been allowed to do so.

Housestaff who wish to pursue these pathways instead of a senior year, must notify Ted Sectish by January 1st of their internship year and demonstrate superior clinical competence and scores on the In Training Examination of the American Board of Pediatrics that predict successful passage of the general pediatrics certifying examination. The Executive Committee oversees the selection process for interested candidates.

Special Tracks
The BCRP makes every effort to allow residents the freedom to pursue special pathways that meet their needs. For example, some residents have extended their period of training for family reasons, and a few have left the program for a year to write a book, start a company or undertake or complete a project.

Physician-Scientist Fellowship Training
During the past 9 years 96.3% of physician-scientist residents who wanted to remain at Boston Children’s Hospital for their fellowship training were able to do so. So, while we do not have a program that guarantees a fellowship position for incoming residents, as some institutions do, for all practical purposes, incoming physician-scientists (and indeed most housestaff) who want to remain for fellowship are able to do so.

The Personal Touch
The BCRP is a family made up of over 150 residents, program directors, and administrative staff. Many residents have recently moved to Boston, some with partners and young children and all are working hard to balance their busy professional and personal lives. We value providing a strong support network for our residents, and we strive to give the BCRP community as many opportunities as possible to spend time together outside the hospital.

Intern Orientation
New interns participate in a unique 12-day Orientation before their first day of work. This is dedicated to helping interns explore Boston, learn their way around the hospitals, take care of logistics, and – most importantly – get to know their new family so they can hit the ground running having already forged many of the friendships that will continue throughout the rest of their lives.

During Orientation, incoming interns participate in structured modules that highlight a variety of important areas such as communication, professionalism, humanism, resident wellness, individualized learning plans, and procedural competency; complete certification courses in PALS and NRP; get oriented to the wards and emergency departments in which they will soon be working; and enjoy a variety of social activities, such as:
• Traditional New England clambake and lobster fest
• Family barbecue and lawn games
• Red Sox games
• Chief Family Dinners
• Happy Hours
• And more…

Advisors and Mentorship
The BCRP strives to provide the best possible educational experience for every resident, to foster personal and professional growth, and to encourage the pursuit of individual passions. Our program prides itself on carefully guiding residents along their chosen career path in order to help them become leaders in clinical care, research, medical education, quality improvement, advocacy, or other areas of their choosing. We take a dual approach, with advising being provided primarily through the five “Chief Families,” and mentorship being accomplished primarily through the four Academies and Global Health Pathway discussed elsewhere.

Advising
Each of the Chief Families includes about 30 residents and is led by a Chief Resident and two faculty advisors. At least four times per year, residents meet individually with their Chief Family leadership to discuss rotation feedback and peer and faculty Milestones assessments, progress towards individual personal and professional goals, and any issues they may encounter. The advisors often provide guidance on career choices and advocate on behalf of the resident in many forums.

Mentorship
While mentorship overlaps significantly with advising, the primary focus of mentorship through the Academies and Global Health Pathway is professional development and career planning. The Faculty Advisors, affiliated faculty members, and Chief Residents who lead each Academy/Pathway organize specific opportunities for residents to identify mentors through networking events, career nights, and research-in-progress events, among others. Residents are encouraged to identify mentors that share their interests, with help from chief residents and program leadership, or the Academy leadership may assign a mentor at the resident’s request.

Housestaff Lounge
The Housestaff Lounge at Boston Children’s Hospital is a recently renovated, casual space dedicated to BCRP residents. It contains workspaces with computers, a printer, a fax machine/scanner and individual mailboxes; a Keurig coffee machine with free coffee and tea; a full-size refrigerator and microwave; and a 50-inch HD television with surround sound. Residents use this room to relax, gather for informal meetings, and for various morning and lunchtime conferences.

Retreats
House officers participate in a variety of different kinds of retreats throughout the three years of residency. These provide time for resident bonding, reflection on education, and discussion of issues important to the entire residency.

Intern Retreat
All interns participate in a weekend retreat in the Fall to relax, reflect, and enjoy each others’ company in a more casual setting after the first three months of residency. It has been held at different locations including faculty members’ summer homes (sans the faculty member), rustic summer camp facilities, or lodges far enough from Boston to serve as a welcome escape from city life. Recently, the interns have spent the night on Cape Ann and Squam Lake, enjoying activities including BBQ, kayaking, swimming, and hiking.

Fall Housestaff Retreat
All residents receive coverage to attend this all-day, all-housestaff retreat, which has traditionally involved activities that promote bonding across residency classes and develop their professional or clinical skills. Fellows and attendings cover clinical services while residents are at the retreat. Resident input is solicited to plan activities and topics of discussion, such as curricular changes, how to be an effective teacher on the wards, and more recently, dedicated time for Academy-specific skills building.

Spring Housestaff Retreat
The Spring all-day, all-housestaff retreat is also held off the hospital premises. This retreat is typically used as a...
Rising Senior Orientation
This is a springtime junior-only retreat focused on building skills essential to the role of the senior resident. Usual topics include: leadership and communication skills; principles of medical education and “resident-as-teacher” skills; tips on licensure and career planning; and recertification in NRP and PALS. Both the Rising Junior and Rising Senior orientations end with Happy Hour and time to socialize as an entire resident class.

Family Friendliness
Parenting as a Resident
The BCRP actively supports residents who are parenting during their training years. As a program, we recognize the difficulties inherent in managing the dual roles of parent and house officer. We are proud to offer a variety of supports to help residents strike their work-family balance with grace and confidence.

• **Peers who are Parents.** You will find parents of infants, toddlers, and school-age children among fellow residents. As a group they socialize and share information about how to strike the right work-family balance. Events are held throughout the year for resident families, including both formal residency-wide events and more informal gatherings.

• **Maternity and Paternity Leave.** The program offers paid parental leave. With advance scheduling anywhere from 8 to 12 weeks usually can be accommodated for the primary caregiver. Although the maximum time is limited by training requirements of the American Board of Pediatrics, program leadership works with all residents to accommodate additional clinical time if the resident extends the period of training to include the extra leave.

• **Flexible Scheduling.** The BCRP has assisted several residents with arranging half or three-quarter time schedules designed to allow completion of residency at
a slower pace over a longer interval. Although we cannot always guarantee flexible scheduling, we try to accommodate such requests to the best of our ability. The BCRP has more residents on flexible schedules than any other program, as noted in an article in Newsweek magazine.

• **Supportive Colleagues and Mentors.** House officers returning to work after the birth of a child report that their colleagues and mentors are supportive during the transition back, including attitudes towards breastfeeding and the short but frequent absences it requires from the wards.

• **Lactation Support.** Both Children’s Hospital and Boston Medical Center have extensive lactation resources, including dedicated RN lactation consultants and multiple comfortable, quiet areas in which mothers can pump in private. Pumps and associated accessories can be purchased from the hospital at a discount.

• **Child Care.**

  **Children’s Hospital Child Care Center.** Children’s Hospital has an excellent affiliated day-care center, that is available to Categorical track residents (though there is a long waiting list). It is directed by Donna Warner and is located 21 Autumn Street, just a short walk from Children’s Hospital. It is open year round on weekdays from 6:30 AM to 6:00 PM. Phone: (617) 355-6006.

  **Bright Horizons Family Center at Landmark.** The Bright Horizons center is located at 401 Park Drive, 4th Floor West, Boston, MA 02215, only a few blocks from the medical area, is open weekdays from 6:30 AM to 6:30 PM and serves children from infancy to preschool. Phone: (617) 450-0790. The hospital has a contractual relationship that reserves 20 slots for BCH employees.

  A subsidy is offered to benefit eligible employees if they enroll at Children’s Hospital Child Care Center or Bright Horizons at LandMark and meet the necessary criteria.

  **The LMA Family Childcare Network** is a network of licensed family childcare providers who provide childcare in their homes for families who work in the Longwood Medical area. Network Family Childcare Providers with varying vacancies are in the following towns: Brookline, Roxbury, Milton, Hyde Park, Needham, and Dorchester. Contact Nina Dickerman, Director of Family Child Care Institutional Services Nurtury, directly at (617) 695-0700 x244. Nina can also direct you regarding the Bromley Heath Center in Jamaica Plain, as well as other Nurtury owned centers.

  **Backup Care.** The hourly cost of adult and childcare through Care.com back-up care is now only $7.50/hour! Once the care is complete and the hours have been confirmed, your credit card will be charged for your hourly co-payment. You may use up to a combined total of 15 days of backup child care and adult care per year (October 1 through September 30). Sign up using your Boston Children’s Hospital email address at bch.care.com.

  A similar benefit through Care.com is available to UHAT residents through BMC. Last-minute care for work related needs such as school snow days, sick days, school vacation, or if your normal child or adult care falls through are included at $6.00/hr for in-home child and adult backup care, and $10.00/day/child for in-center backup childcare. You may use up to 10 days per year in any combination of backup care.

  **Au Pair Services.** Cultural Care Au Pair (CCAP) is the largest Au Pair company in the world, with more than 90,000 au pairs in the U.S. CCAP is an affordable child care option for benefits eligible Boston Children’s employees. CCAP is offering a $500 discount to employees new to their program. They also offer our employees customized consultations and webinars at no cost. For more information, please contact a program consultant at 800-333-6056 x 3605.

  • **Community Offerings for Families.** Boston and the surrounding communities provide a
Getting to know you games

Famous Dr. Vinci waffles

New name tags

New pagers

New long white coats

Practicing procedures

Bad breath protection

REALLY bad breath protection

Color Coded Chief Families

Field Day with Chief Families

Escaping the room

Scavenger Hunt
Intern Orientation

Enjoying the Boston summer  
Softball  
Red Sox Game

Intern Retreat

Grilling  
Hanging out  
Beach football

Family style meals  
Playing Scatagories  
Breakfast together

Kayaking  
Group hikes  
Nothing but the finest accommodations
wide array of enjoyable and enriching opportunities for kids, such as playgrounds and parks, the Aquarium, the Children’s Museum, the Science Museum, and numerous day trips outside the city.

- **Schools.** Many of the local school systems, including Brookline and Newton, enjoy nationwide recognition for excellence.

**Benefiting the Community**

The BCRP is actively engaged in the Boston community and committed to providing outstanding care for Boston’s children. Given their proximity to urban centers, both Boston Children’s Hospital and Boston Medical Center are community hospitals for residents from Roxbury, Dorchester and Mission Hill where many families are living at or below the poverty line. Boston Medical Center is the largest safety net hospital in New England, and Children’s Hospital’s Primary Care at Longwood is the largest provider of pediatric primary care to children in the city, seeing 11,000 patients, 65% from low income neighborhoods. In addition to serving Boston’s urban population clinically, residents receive additional community health training and immersive experiences in the Keystone blocks as part of the Advocacy, Adolescent Medicine, and Child Development curricula. Immersive experiences during Keystone allow residents to learn about and address the needs of many underserved neighborhoods in Boston.

Residents often organize and participate in other community efforts including supporting local organizations like Forest Hill Runners and Best Buddies, joining with pediatric residents from other programs in the state for the Residents and Fellows Day at the State House, and engaging in fundraising efforts by cycling in the annual Rodman Ride and running in the Boston Marathon.

**Community Health and Advocacy Rotation**

The Community Health and Advocacy Rotation is based at Boston Medical Center and is incorporated into the Keystone blocks during the PL-1 year. The curriculum leverages resident experience on the wards and in outpatient clinic to provide context for screening for and addressing social determinants of health. Interactive didactic sessions explore the impacts of systemic racism, discrimination and poverty on child health outcomes. Through discussion with many Boston-based advocacy groups and community agencies, residents build familiarity with the many resources available to patients at both institutions and in the Boston community. Residents also receive training in legislative advocacy, participate in skill building workshops, and learn through structured community exercises that complement targeted didactic training in topics such as disability services, family law, health insurance, housing, hunger and nutrition, and immigration services. In addition, residents learn to seamlessly incorporate their advocacy skills into their primary care clinic, developmental and behavioral pediatrics clinics, and adolescent clinics framing advocacy as a central component of being a pediatrician. Every resident is tasked with designing an advocacy initiative during their Keystone rotation.

Residents also have the opportunity to explore careers in advocacy and public health at the local, national and global levels.

For residents with a special interest in legislative advocacy, elective opportunities at both the local and national levels can be arranged.

**Some Examples of Recent Resident Advocacy Accomplishments**

- Worked with a local charter middle school on a sleep hygiene project. Students with daytime sleepiness or behavioral issues were identified by the teaching staff. Each student received a wristband accelerometer (FitBit) to track sleep and activity, and in monthly visits we reviewed the data together and did counseling on healthy sleep habits.
- Partnered with the Boston Children’s Community Asthma Initiative to target health-related social needs to improve asthma outcomes in this vulnerable population of low-income families with chronically sick children. We did this by implementing a standardized Rodman Ride for Children, which raises money for social services for at-risk youth.
Urban Health and Advocacy Track (UHAT) residents spent a Research, Advocacy and Policy (RAP) afternoon with Boston Children’s Office of Government Relations staff Amy DeLong and Kate Audette, learning how to lobby and speak to politicians. They put their skills to use that day, meeting with staffers in the offices of Senator Elizabeth Warren and Senator Ed Markey to advocate for legislation that would strengthen the NIH’s commitment to pediatric research.

BCRP residents Elyse Portillo and Amanda Stewart at the Massachusetts State House after they and two other Boston Children’s Hospital providers shared testimony on a bill that would improve the way the Children’s Medical Security Plan—a safety net insurance plan for underserved children—is structured, allowing for a flexible program that would better serve the needs of children in the Commonwealth. Elyse and her fellow advocates from Boston Children's shared patient stories as they urged policymakers to move forward on this important legislation.
Confronted with the fact that patients with limited English proficiency are more likely to suffer adverse events and the realization that residents in the BCRP are caring for an increasing portion of non-English speaking patients, BCRP residents Neeru Narla and Zeena Audi created a cultural communication curriculum to improve the quality of care delivered to ethnically and linguistically diverse pediatric patients and their families. After completing a needs assessment of residents and interpreters and conducting focus groups with interpreters from different cultures, they realized that the obstacles to effective communication identified by interpreters were similar across cultures. They distilled these gaps in culture knowledge and interpreter interaction into the theme of a “10 and 10” curriculum – ten tips on working with interpreters and ten tips on working with multicultural patients. Every BCRP intern rotating on the BMC Pediatric Ward team will now experience this curriculum, which combines interpreter feedback, an online virtual classroom, and simulation to disseminate the “10 and 10” and provide opportunities for residents to practice these skills. Neeru and Zeena also presented their curriculum to a national audience at the Annual Meeting of the Association of Pediatric Program Directors.

StreetCred

One of every five children in the United States is growing up poor, which means America’s future faces increased risk of preventable disease, poor school performance, and loss of future economic productivity. In response, residents Michael Hole and Lucy Marcil teamed up and founded StreetCred, a social impact organization highlighted by Forbes Magazine and NPR. StreetCred is building one-stop shops of anti-poverty tools to help low-income families visiting pediatric clinics access basic resources and build assets while they wait on their doctor. In its first four months, StreetCred prepared tax returns and led voter registration for patients’ families, ultimately returning nearly $400,000 of Earned Income Tax Credit and Child Tax Credit to caregivers raising children. StreetCred’s Research Team is studying the program’s impact on long-term childhood toxic stress and health outcomes, and the organization has plans to expand its services to setting up savings accounts and bonds, financial literacy, filing for health insurance, and food, housing, utilities, and family budgeting assistance in Boston and other urban settings across the United States. To-date, StreetCred is financially supported by BMC’s Department of Pediatrics, BMC’s Philanthropic Trust, BMC’s Committee on Residents and Interns, a Boston Children’s Hospital’s Fred Lovejoy Award, the American Academy of Pediatrics, and several private donors. Six BCRP residents devoted their protected advocacy time to StreetCred during the 2016 tax season.
implicit bias and structural racism. Participants learn how to analyze the effects of implicit bias and structural racism in individual clinical scenarios and their overall impact on the health care system. Resident conference leaders employ evidence-based tools to help participants recognize and mitigate personally held implicit biases, and leverage these skills to reduce the impact of bias on doctor-patient and interprofessional relationships as a means to reduce structural racism at the institutional level. The Health Equity Round structure has been rolled out at both Boston Medical Center and Children’s Hospital, and now has been adopted a national model for other institutions to begin discussions aimed at dismantling systemic racism.

International Opportunities

BCRP Global Child Health Initiative
The goals of the BCRP Global Child Health initiative are to increase knowledge and awareness of global health issues; to provide specialized knowledge, skills and mentorship to residents with career interests in global child health; and to provide high-quality opportunities for meaningful international clinical experiences. The initiative offers exposure to international and refugee patients, as well as faculty working on cutting-edge, grass-roots policy and health service delivery in the developing world. It has three major components for residents with varying degrees of interest in global health:

- The BCRP Global Health Pathway, which includes dedicated mentorship for global health careers, flexibility in call-free elective time to arrange away rotations in both junior and senior years, and a robust curriculum delivered during individualized resident learning time, for two residents per year (from either categorical or UHAT tracks).

- Global health teaching curriculum for all BCRP residents delivered during the PL-1 Keystone blocks and during noon conferences.

- Global health electives at supervised, partner international sites with pre-departure preparation and post-travel debriefing for interested BCRP residents.

Additionally, residents can apply for a traditional post-residency Global Pediatric Fellowship in Health Services Delivery through Boston Children’s Hospital (described in the section on Fellowships below).

BCRP Global Health Pathway
In 2019 the BCRP launched a Global Health Pathway. Two Categorical or UHAT residents per year with significant career interest in global health are selected from the incoming intern class and join the Global Health Pathway in lieu of an Academy. Our goal is for participants to develop an in-depth understanding of child global health to prepare for leadership roles in clinical care, healthcare delivery and child health advocacy for the underserved globally.

This goal is achieved by:

- Formation of a community of six residents (two per year) and dedicated faculty with a deep interest in Global Child Health.
- Providing each resident with mentorship for a global health career.
- Providing a robust and well-developed curriculum to these residents during Academy afternoons, as well as allowing them time to attend the BCH Global Health Clinical Skills Week in either their junior or senior year.
- Supporting additional resident-driven curricula, including resident-led journal clubs, networking events with other global health tracks in Boston area residencies, etc.
- Allowing for up to 4 weeks of contiguous call-free field work during the junior year and 6 weeks of contiguous call-free field work during the senior year.
- Supporting the resident in the presentation of a final project on their global health work near the end of their senior year.

More information about the BCRP Global Health Pathway application process is available [here](#).

Please contact the BCRP Global Health Pathway Director, Christiana Russ, with any questions.

Global Health Teaching Curriculum
The BCRP global health teaching curriculum provides didactic and case-based instruction on the fundamentals of pediatric international health, integrated throughout existing noon conferences and resident lectures. During the PL-1 year, additional educational sessions occur during the advocacy section of the Keystone blocks. Residents in the Urban Health and Advocacy Track are
also exposed to topics in global health through monthly Research, Advocacy and Policy sessions.

**Global Health Seminar Series**
The Global Pediatrics Program at Boston Children’s Hospital hosts a monthly seminar series pertaining to child health in low-resource settings. Additionally, the Global Health Initiative Seminar Series, which is jointly held by Dana Farber Cancer Institute and Boston Children’s Hospital, has a regular seminar series that residents are welcome to attend. Please contact Katy Weinberg for more information.

**Global Health Clinical Skills Week**
BCRP residents are invited to participate in many of the sessions offered for BCRP Global Pediatric Fellows during a clinical skills week in the Fall of each year. The course is run by multidisciplinary faculty from across Harvard, and includes didactics, case based teaching, and hands-on skills workshops to teach learners practical management of common illnesses and tropical diseases affecting children in low income countries.

**BMC International Health Clinics**
Boston Medical Center has an International Refugee Clinic, Travel Clinic and Tuberculosis Clinic. Residents have the opportunity to rotate through these clinics during their elective time.

**BCH Global Health Program**
Boston Children's Hospital's Global Health Program includes more than 100 individuals from almost every department in multidisciplinary efforts in 40 countries to improve pediatric care globally. More information and links to recent Annual Reports are available [here](#).

**Global Health Electives**
Residents have elective time in their second and third years, during which they can pursue clinical rotations at international sites. Our goal is that all residents interested in global health rotations will receive preparation and support to facilitate their participation in elective rotations in resource limited settings that are educational, safe, and responsive to their host communities. The purpose of these rotations is to teach residents about health care in an under-resourced setting with a focus on improving their knowledge about major causes of global pediatric morbidity and mortality, improving clinical skills, and increasing residents’ understanding of how culture, ethics, policies and health systems can affect pediatric health. Housestaff may take advantage of several established partnerships or they may arrange rotations or research projects at other sites with faculty mentorship. A database of institutional, regional and national grants is available to assist residents with funding. The more established programs are described here. The BCRP can only arrange global health rotations for current BCRP residents.

**Rwanda**

- **Central Hospital University of Kigali, Rwanda**

  **Program:** University of Rwanda Pediatrics Dept
  **Site:** Centre Hospitalier Universitaire de Kigali (CHUK; University Teaching Hospital of Kigali), Kigali, Rwanda
  **Minimum Time:** 3-4 weeks
  **Activities:** Residents work alongside pediatric faculty from Rwanda or US faculty with the Rwanda Human Resources for Health Program as well as residents, medical students and staff in the main tertiary referral hospital for the country. Residents can choose between the pediatric emergency dept (through which almost all admissions come) and Inpatient wards. The wards include a high dependency unit, a 3-bed PICU with ventilators, a NICU (without ventilators), and general wards including oncology, cardiology, malnutrition, chronic and surgical wards.
  **Cost:** Plane ticket, lodging, $200 administrative fee
  **Language:** No requirement, French is helpful but all education is conducted in English
  **Contact:** Kim Wilson and Samantha Rosman

**Laos**

- **Lao Friends Hospital for Children**

  **Program:** Lao Friends Hospital for Children
  **Site:** Lao Friends Hospital for Children, Luang Prabang, Laos. Luang Prabang (~54,000 pop) is a world heritage site in north central Laos and is the capital of its province.
  **Minimum Time:** 4 weeks
**Activities:** Working alongside Laos physicians and nurses providing clinical care in urgent/outpatient, inpatient, ER and postoperative care.

**Cost:** Flight ($2,000), accommodations (~$500/month)

**Language:** Hospital practices in English

**Contact:** Michelle Niescierenko.

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### Tanzania

![Muhimbili National Hospital in Tanzania](image)

**Program:** Muhimbili University Pediatrics Dept

**Site:** Muhimbili National Hospital, Dar es Salaam, Tanzania

**Minimum Time:** 3-4 weeks

**Activities:** Residents work alongside pediatric faculty, residents and staff in a large department that serves as a referral center for the country. They can choose to work in subspecialty clinics, the acute care ward, general ward, NICU, or the diarrhea ward. They can also focus on research or quality improvement projects, and enhancing education.

**Cost:** Plane ticket, lodging, $200 administrative fee

**Language:** No requirement

**Contact:** Christiana Russ

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### Indian Health Services

![Northern Navajo Medical Center](image)

**Program:** Indian Health Services Pediatric Program

**Site:** Northern Navajo Medical Center, Shiprock, New Mexico

**Minimum Time:** 1 month

**Activities:** The pediatric rotation includes mostly outpatient urgent care and primary care visits. Residents may also observe numerous community-based healthcare initiatives, including school visits. This is a unique opportunity to work with a medically underserved community with a distinctive culture while gaining outpatient primary care and public health perspectives.

**Language:** No requirement

**Contact:** Christiana Russ

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### Global Health Fellowships

**Global Health Fellowships**

**Boston Children's Hospital Postgraduate Global Pediatric Fellowship in Health Service Delivery**

The Global Pediatrics Program offers a postgraduate fellowship program in global health, in collaboration with Partners in Health. Fellows combine work in Laos, Haiti or Rwanda with clinical service and course work in Boston. While abroad, fellows work with local colleagues to improve the quality of pediatric services. Fellows share their clinical experience through bedside and didactic teaching, and work with local staff to implement specific programs and projects. Areas of focus for the fellows' have included prevention of maternal-to-child transmission of HIV, neonatology, oncology, and care of children with chronic and non-communicable disease. This focus on global health service delivery provides critical support to our partners and provides fellows with an opportunity to develop skills and experience in clinical care in low resource settings, in medical education, and in program design, management and evaluation. Contact Kim Wilson or Michelle Niescierenko, Fellowship Directors, at Boston Children's Hospital for more details or see the fellowship brochure here.

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### Grants for Global Travel and Projects

**Grants for Global Travel and Projects**

The Boston Children’s Hospital Global Health Program was founded in 2013 to gather global health practitioners from across the hospital into a multidisciplinary approach to our global work. As part of this initiative the program provides grant funding for residents. Residents can apply for grants of up to $3,000, $5,000 or $10,000. The Schliesman and Von L Meyer Funds are also specifically dedicated to fund overseas experiences of residents and several residents per year receive up to $1,000 each for this purpose.

**Recent Examples of Funded Research Projects:**

- Quality Improvement study on hand hygiene in an urban pediatric tertiary care hospital (Vietnam)
- Developing protocols for fever in patients with sickle cell disease in West Africa (Ghana)
- Qualitative research on community care of newborns (Tanzania)
Global Health Experiences
Global Health Experiences
Diversity and Inclusion

The Boston Combined Residency Program in Pediatrics (BCRP) links the pediatric training programs of Boston Children’s Hospital and Boston Medical Center. With Boston being a minority majority city, both hospitals have at their core a commitment to diversity on all fronts including advancing community outreach, reducing inequitable health care outcomes, and promoting and cultivating a diverse workforce within an inclusive environment. This mission is reflected in both institutions being designated LGBTQ Healthcare Leaders by the Healthcare Equity Index as well as the robust network of institutional resources dedicated to reaching these goals.

The BCRP is committed to reducing healthcare disparities and creating a workforce that reflects the diversity of our patient populations. Providing children and families with the very best care requires an understanding of their physical, emotional, and cultural needs. For this reason, we seek diverse residents who possess an intellectual curiosity, a passion for medicine, and a compassionate commitment to patients and their families.

The BCRP embraces all forms of diversity and intersectionality including, but not limited to, race, ethnicity, disability, socioeconomic background, gender identity, sexual orientation, and life experience. We are committed to recruiting and supporting a diverse resident workforce and have outlined the following goals:

- To increase the number of BCRP housestaff from underrepresented minority groups.
- To provide support to our trainees that are underrepresented in medicine through faculty engagement, mentorship, education, and resident attendance to national conferences such as SNMA and LMSA.
- To shape the professional development of a cadre of minority physicians who will become leaders in all aspects of pediatrics including patient care, research, medical education, health care policy and child advocacy.

Diversity Council

The council is made up of residents and faculty who share diverse backgrounds, as well as their allies. All residents and faculty are invited to join the Diversity Council.

Structure

The BCRP Diversity Council is led by a faculty member and chief residents each year, the BCRP Diversity Officer and Diversity Chief Residents. The Council is divided into three working groups that each focus on an important part of our mission and are led by resident and faculty leaders who are dedicated to these ongoing efforts each year.

Working Groups

- **Recruitment:** Focuses on creating an inclusive environment for incoming applicants while also organizing opportunities for applicants to meet resident and faculty members of the Diversity Council. We offer the following programming each recruitment season to our applicants:
  - **Diversity Dinners** prior to each interview day with residents, fellows, and faculty who are a part of the diversity council in a relaxed atmosphere
  - **Council Connect:** The ability to be paired with a current BCRP resident via email should you have any questions before, during, or after your interview.
  - **Diversity Council Hosting:** Stay with a current Diversity Council resident during your visit to the BCRP.
BOSTON COMBINED RESIDENCY PROGRAM

- **Education:** Reviews our curriculum to ensure that we are spending time educating our residents and faculty on topics that will improve their ability to care for our diverse patient populations.

- **Community:** Fosters and supports our community within the BCRP by providing opportunities for mentorship, collaboration with pipeline programs within our partner institutions, and ensuring that our residents are represented at national and regional conferences such as LMSA and SNMA by providing financial support for them to attend these important events. We routinely have many events to help bring us together including potlucks, mixers, and professional development sessions in order to reach our goals above. We also are committed to helping our diverse residents take advantage of specialized programing at national conferences, including participation in the APA New Century Scholars Program.

**URM Second Look Day**

The BCRP is committed to training a workforce that reflects the diversity of our patient population. As part of our intern recruitment program, we offer a funded second look day for traditionally underrepresented minority (URM) in medicine interviewees, including as defined by the AAMC. The goal of this program is to provide more familiarity and exposure to our program, our affiliated institutions, the city of Boston, and BCRP residents and faculty from traditionally underrepresented backgrounds. This sponsored second-look day for URM interviewees is scheduled on Monday, January 27, 2020 this year, which is approximately two-weeks after our final interview day. The day’s program has included introductions from leadership at both institutions, a faculty panel, a candid discussion about race relations in Boston, lunch with residents, individual meetings with faculty, time to explore the city, and a Diversity Council Mixer with invited residents and faculty. The BCRP provides second-look attendees with lodging and meals for the visit and financial support to defray travel costs for this event.

**Some of Our URM Faculty**

- Adolphe, Soukaina MD; BMC, Ambulatory Pediatrics and Newborn Nursery
- Anglero Diaz, Yohannis MD; BCH, Psychiatry/ Psychology
- Allende-Richter, Sophie, MD; BCH, General Pediatrics
- Archer, Natasha, MD; BCH, Hematology/Oncology
- Becerra, Lino, PhD; BCH, Anesthesiology
- Boynton-Jarrett, Renee, MD; ScD, BMC, General Pediatrics
- Camargo, Fernando, PhD; BCH, Stem Cell Program
- Castro-Aragon, Ilse, MD; BMC, Pediatric Radiology
- Cherry, Marcus, PhD; BCH, Psychiatry/Psychology
- Churchwell, Kevin, MD; BCH, Executive Vice President of Health Affairs and Chief Operating Officer, BCH
- Corzo, Deya, MD; BCH, Genetics
- Daniel, Jessica Henderson, PhD; BCH, Psychiatry/ Psychology
- Davis, Carmon J., MD, MPH; BCH, Primary Care
- Del Nido, Pedro J., MD; BCH, Chief of Cardiac Surgery
- Drubach, Laura A., MD; BCH, Radiology
- Epee-Bounya, Alexandra A., MD; BCH, Emergency Medicine
- Estrada, Carlos R. Jr., MD; BCH, Surgery
- Egbuta, Chinyere, MD; BCH, Anaesthesia
- Feliciano-Alvarado, Tamara, MD; BMC, Gastroenterology
- Figueira, Marisol, MD; BMC, Infectious Diseases and Ambulatory Pediatrics
- Flores, Alejandro F., MD; BCH, Gastroenterology
- Fortuna, Lisa, MD, BMC, Child Psychiatry
- Freundlich, Charise, MD; BMC, Emergency Medicine
- Fynn-Thompson, Francis, MD; BCH, Cardiac Surgery
- Gomez-Morad, Andrea, MD; BCH, Anesthesiology
- Gonzalez-Heydrich, Joseph M., MD; BCH, Psychiatry/ Psychology
- Gutierrez, Alejandro, MD; BCH, Hematology/Oncology
- Gutierrez-Ruiz, Melissa, MD; BMC, Hematology
- Harper, Marvin B., MD; BCH, Infectious Diseases and Emergency Medicine
- Hatcher, Cyndie, MD; BMC, Primary Care
- Hernandez, Michael R, MD; BCH, Anesthesiology
- Holder-Niles, Faye, MD; MPH, BCH, Primary Care
- Ibeziako, Patricia, MD; BCH, Psychiatry
- Ibla, Juan C., MD; BCH, Anesthesiology
- Isong, Inyang, MD; BCH, General Pediatrics
- Jarrett, Delma, MD; BCH, Radiology
- Joseph, Luc F., MD; BCH, Primary Care
- La Roche, Martin, PhD; BCH, Psychiatry/Psychology
- LeClair, Elaine G., PhD; BCH, Psychiatry/Psychology
- Lopez, Mary Frances, PhD; BCH, Endocrinology
- Louis, Emault, MD; BMC, Pediatric Primary Care
BOSTON COMBINED RESIDENCY PROGRAM

- Martin, Camilia R., MD; BCH/Beth Israel Deaconess, Newborn Medicine
- Martinez, Enid, MD; BCH, Anesthesiology (Diversity Council Faculty Leader)
- Mateo, Camila, MD; BCH, General Pediatrics (BCRP Diversity Officer)
- McAlmon, Karen R., MD; BCH/Winchester Hospital, Newborn Medicine
- McKay, Jheanelle, MD; BCH, General Pediatrics (Diversity Council Faculty Leader)
- Melo de Gusmão, Claudio, MD; BCH, Neurology
- Morera, Claudio, MD; BMC, Gastroenterology
- Muñoz, Carlos, MD; BCH, Anesthesiology
- Mustafa-Kutana, Suleiman, MD; BMC, Endocrinology
- Navedo-Rivera, Andres T., MD; BCH, Anesthesiology
- Nethersole, Shari, MD; BCH, General Pediatrics, Community Health
- Nurko, Samuel, MD; BCH, Gastroenterology
- Perez-Rossello, Jeanette M. MD; BCH, Radiology
- Pierre-Joseph, Natalie MD; BMC, Adolescent Medicine
- Poe, Dennis S. MD; BCH, Otolaryngology
- Poussaint, Tina Y. MD; BCH; Neuro-Radiology
- Prudent, Nicole MD; BMC, Primary Care
- Pursley, DeWayne M. MD; BCH/Beth Israel Deaconess Med. Ctr., Newborn Medicine, Division Chief
- Quinones-Perez, Bianca, MD; BCH, Complex Care Service
- Ramirez-Schrempp, Daniela MD; BMC, East Boston Neighborhood Health Center
- Redd, Sharon L. MD; BCH, Anesthesiology
- Rey-Casserly, Celiane M. MD; BCH, Psychiatry/Psychology
- Sanchez, Ana, MD; BMC Developmental Pediatrics
- Smith, Vincent C. MD, MPH; BMC, Neonatology, Division Chief
- Soros, Arlette, MD; BMC, Endocrinology
- Soto, Carmen, MD; BCH, Endocrinology
- Torres, Aly, MD; BMC Child Neurology
- Velarde, Jorge, MD, PhD; BCH, Infectious Diseases
- Ward, Valerie L. MD; BCH, Radiology
- Watnick, Paula, MD, PhD; BCH, Infectious Diseases
- Wilson, Celeste R. MD; BCH, General Pediatrics, Child Protection Program
- Wong Quiles, Chris MD; BCH, Hematology/Oncology
- Woods, Darryl A., MD; BMC, Ambulatory Pediatrics and Newborn Nursery
- Zendejas-Mummert, Benjamin, MD, MSc; BCH, Surgery

Visiting Electives

Through both Boston University and Harvard University there are several programs that allow you to come visit the BCRP throughout medical school prior to applying that are focused on underrepresented groups in medicine.

Harvard Medical School Office of Diversity, Inclusion, and Community Partnership

- Visiting Research Internship Program: The Visiting Research Internship Program (VRIP) is an eight-week mentored, summer research program designed to enrich medical students’ interest in research and health-related careers, particularly clinical/translational research careers. Eligible participants are first and second year medical students, particularly individuals from groups underrepresented in medicine and/or disadvantaged individuals. Housing is provided and financial assistance is also provided for transportation costs. To find out more, visit their website.

- Visiting Clerkship Program: the Visiting Clerkship Program (VCP) provides support for fourth-year and qualified third-year medical students from groups underrepresented in medicine (African-American, Hispanic/Latino and American Indian/Alaska Native) to participate in the HMS Exchange Clerkship Program. Housing is provided and financial assistance is also provided for transportation costs. To find out more, visit their website.

- Harvard Affiliated Residency Programs Showcase: An extension of the VCP program, the Harvard Affiliated Residency Programs Showcase provides support for URM medical students in their 3rd or 4th year from the New England region as well as other states with an opportunity to meet and network with Harvard affiliated residency program training directors, attending physicians, fellows and residents. The BCRP is always in attendance and it is a great way to chat with our current trainees and faculty!

Boston Medical Center Office of Minority Physician Recruitment

- Subsidized Visiting Elective Program (SVEP): This program provides financial assistance and support for under-represented minority medical students to gain clinical exposure within any of our departments in the form of a month long elective at Boston Medical Center. Eligible participants are third year medical students who belong to a group considered to be underrepresented in medicine (Black/African-American, Hispanic/Latino, Native American, and Pacific Islander/Native Hawaiian). Students that are accepted into the SVEP will be reimbursed up to $2,000 for travel, housing, and VSLO registration fee. To find out more, visit their website.

Institutional Resources

Because we are a combined program, the BCRP has access to resources and supports at both institutions. The Diversity Council works together with the following offices and groups to meet our goals:

- The Office of Health Equity and Inclusion at Boston Children’s Hospital. Please contact healthequity@childrens.harvard.edu
Salaries and Benefits

Residency appointments are for one-year but house officers are accepted with the expectation that they will complete the full course of training needed for board certification. Depending on track, residents receive their salary and benefits from Children's Hospital or Boston Medical Center. Salaries and benefits are not identical, but the program directors continually review the benefits packages work to adjust salaries when needed to ensure benefits are as comparable as possible.

The Categorical and UHAT tracks have different pay scales because they are generated from the institutional pay scales at Boston Children's Hospital (Categorical Track) and Boston Medical Center (Urban Health and Advocacy Track). For the last 7 years, the pay scale at Boston Medical Center has been lower than that at Boston Children's Hospital, however each year the hospital leadership has been able to pay this difference to UHAT residents. Although we are not able to predict how salaries will differ between the two institutions in the future, we will make every effort possible to reconcile the salary differences between the two tracks each year.

<table>
<thead>
<tr>
<th></th>
<th>Categorical (salary from BCH)</th>
<th>Urban Health (salary from BMC)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PL-1</strong></td>
<td>$67,900</td>
<td>$61,367</td>
</tr>
<tr>
<td><strong>PL-2</strong></td>
<td>$70,600</td>
<td>$63,688</td>
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<tr>
<td><strong>PL-3</strong></td>
<td>$73,600</td>
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<tr>
<td><strong>PL-4</strong></td>
<td>$77,300</td>
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</tr>
<tr>
<td><strong>PL-5</strong></td>
<td>$82,600</td>
<td>---</td>
</tr>
<tr>
<td>Chief Resident</td>
<td>$89,000</td>
<td>---</td>
</tr>
</tbody>
</table>

* Applies to combined programs

** The UHAT salaries for 2019-2020 are still being negotiated and will be posted once they are known.

Benefits (Both tracks unless noted)

Insurance
- Professional liability (malpractice) insurance
- Life insurance
- Long-term disability insurance
- Short-term disability insurance
- Business travel accident insurance
- Subsidized health insurance, including spouse and children
- Subsidized dental insurance
- HIV supplemental benefit plan

Other Employment Benefits
- Vacation (4 weeks)
- Leave of absence: medical, family medical or child care/adoption, maternity and paternity, bereavement.
- Child Care Center (Categorical track, subsidized, waiting list)
**BOSTON COMBINED RESIDENCY PROGRAM**

- Discounted parking in hospital lots with shuttle bus service
- Discounted night and weekend parking in patient parking garage
- Discounted public transportation (MBTA) pass
- Voluntary tax-deferred annuity and investment (403b) plan
- Lease Guarantee Program (both hospitals will guarantee payment of security deposit and/or advance payment of last month’s rent if required by landlord)
- Taxi Voucher Program (Lyft program for late night BMC shifts)
- Travel reimbursement for specific community-based continuity clinics

**Residency Benefits**

- Daily lunches
- On-call accommodations, including an on-call meal
- Two hospital (BCH & BMC) and medical school (Harvard & BU) appointments
- Department pays for USMLE III
- Department pays 50% of Pediatric Board Certifying Exam fee
- Department pays American Academy of Pediatrics dues
- Professional Education Allowance (Urban Health and Advocacy track): $1000 per year
- Free BLS training for all housestaff
- Free PALS, NRP training courses during orientation and free refresher courses during senior orientation
- Salary payment during intern orientation
- Five-day break between PL-1 and PL-2 years
- Flex spending account for child and dependent care and out of pocket medical expenses
- Office of Clinician Support for work-related or personal problems
- Reimbursement of $500 to attend a medical meeting once during residency as well as an additional $500 if presenting
- Office of Fellowship Training that supports residents and fellows

**Social Benefits**

- Full day fall and spring retreat for all residents
- Intern overnight retreat in the fall
- Full day junior and senior orientations
- Faculty dinners
- Winter Formal (dinner-dance)

- House staff show
- House staff auction
- Use of Harvard University and Harvard Medical School athletic facilities

**Funding Sources for Academic Pursuits**

- Schlesman 3rd World Awards (3-4/yr) (Up to $1000/Award)
- Von L Meyer Travel Awards (12-13/yr) ($700/Award)
- Lovejoy Research Awards (5-8/yr) ($2,000-$6,000/Award)
- Alpert Children of the City Endowment Grants (2-3/yr) ($5,000-$7,000/Award)

**Child Care Center**

The Children’s Hospital Child Care Center provides high quality childcare for children of hospital employees and staff, including Categorical residents. They accept children three months through five years without regard to race, creed, cultural heritage or religion. They offer a safe, supportive environment that fosters self-esteem, growth and cultural diversity.

The Center is located at 21 Autumn Street, just a short walk from Children’s Hospital. It is open year round on weekdays from 6:30 AM to 6:00 PM. The Center is closed on weekends and hospital recognized holidays. The center can accommodate 42 children, but there is nearly always a waiting list. Reduced tuition rates are available based on gross family income.

For more information about the program, or for a tour, please call the Center at (617) 355-6006.

**Office of Fellowship Training**

Children’s Hospital maintains an Office of Fellowship Training that serves both clinical and research fellows and offers a multitude of services. Examples include: conferences and seminars on topics related to career, family, leadership, mentoring and funding; clinical and basic science discussion groups; and journal clubs, social events, group dinners, and a research day poster session. They also have programs devoted to getting settled in the Boston area that address topics such as: housing, finances (Boston on a Budget), transportation, childcare, family, family activities, sports and fitness, and arts and entertainment. And, there are important sections on credentialing, moonlighting, and preparing a Harvard formatted CV on their website. There is also a fellow-to-fellow forum, including a list of housing...
opportunities. There is an excellent “Welcome to BCH and Boston” section on their website that lists many useful resources.

Cost of Living
Boston is relatively expensive, though less so than many people imagine. The tables below compare: 1) the cost of living in different US cities in 2016 based on an income of $65,000, which is approximately the salary of a junior resident in the BCRP, and 2) the average monthly rental for a two bedroom apartment. Comparatively, Boston is similar to Oakland, Seattle, New Haven, Los Angeles, and Baltimore, less than New York, Washington, Palo Alto, and San Francisco, and more than Philadelphia, Denver and Cincinnati. BCRP salaries, which are higher than average, and the extensive benefit package make the relative costs even lower. In addition, Boston Children's Hospital is only 4 blocks from the elegant suburb of Brookline, with one of the best school systems in the Boston area, and the hospital is very near two subway lines that serve the downtown and suburban neighborhoods. So residents can live in high quality communities without the expense of a car (or extra car) to get to work. In our experience, the cost of living is only restrictive for couples with multiple children and one salary, particularly if there are extra expenses for schooling or child care or loan repayments. We are happy to connect applicants who wish to explore cost of living with current or recent past residents in similar situations. Though Massachusetts
### TOTAL LIVING COSTS

<table>
<thead>
<tr>
<th>City</th>
<th>Comparative Living Costs 2016*</th>
<th>Percent Difference</th>
<th>Pediatric Residency</th>
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</thead>
<tbody>
<tr>
<td>New York, NY</td>
<td>$81,849</td>
<td>126</td>
<td>Columbia, Cornell, Mt Sinai</td>
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<tr>
<td>San Francisco, CA</td>
<td>$73,342</td>
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<td>UCSF</td>
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<td>Washington, DC</td>
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<td>Children's National</td>
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<td>Palo Alto, CA</td>
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<td>Stanford</td>
</tr>
<tr>
<td>Oakland, CA</td>
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<td>100</td>
<td>Oakland Children's</td>
</tr>
<tr>
<td><strong>Brookline, MA</strong></td>
<td><strong>$65,000</strong></td>
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<td><strong>BCRP</strong></td>
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<tr>
<td>Rochester, NY</td>
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<td>Rochester</td>
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<td>Los Angeles, CA</td>
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<td>USC, UCLA</td>
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<td>New Haven, CT</td>
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<td>Baltimore, MD</td>
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<td>Durham, NC</td>
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<tr>
<td>St Louis, MO</td>
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<td>Washington Univ</td>
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<tr>
<td>Salt Lake City, UT</td>
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<td>Utah</td>
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</table>

*Data are average of cost of living figures from CityRating.com and CNNMoney.com
<table>
<thead>
<tr>
<th>City</th>
<th>Median 2-Bedroom Apartment Rent per Month in 2016*</th>
<th>Percent Difference</th>
</tr>
</thead>
<tbody>
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<td>San Francisco, CA</td>
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<td>Palo Alto, CA</td>
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*Data from Zillow.com
After Hours

With Colleagues

**Winter Formal**
Each winter, the House Staff Association organizes a formal dinner and dance for residents, significant others, and invited faculty, either at the Harvard Club of Boston or the Trustee's Ballroom at Boston University. All residents are covered from hospital responsibilities during this event.

![The Winter Formal](Image)

**Housestaff Auction**
The House Staff Association organizes an auction every Spring in which residents, faculty and community businesses donate anything from cooking lessons, to a weekend at a summer home, Red Sox and Patriots tickets, or a new Vespa. All proceeds go to the House Staff Association to support residency-wide events throughout the year.

**The Spring Show**
The BCRP houseofficers produce an annual show: a comedy "spoof" of the faculty and the vagaries of residency. The show is a long tradition and provides an opportunity for housestaff to showcase their remarkable singing, dancing, instrumental, organizational and comedic talents.

![Practicing for The Show](Image)

**Theme Dinners and Beef Fest**
Residency leaders host theme dinners that show off the diversity of backgrounds, geographic origins, and cultures of our residents. Some of the most recent events have included Turkish Night, Caribbean Night, Midwestern Night, and Middle Eastern Night. In addition, every year the male residents gather for a beef-eating and mustache-growing competition. Vegetarian participants are also welcome!

![Africa Night theme dinner](Image)

**Diversity Dinners**
Faculty and residents interested in supporting underrepresented minorities in medicine from all backgrounds working at both institutions host and meet at monthly Diversity Dinners at faculty homes or favorite Boston restaurants. These dinners offer opportunities for improved networking, community-building, and socializing.

**Chief Family Dinners and Events**
Each Chief organizes a quarterly (or more often) dinner or social event for the 25-30 residents in their Chief Family. These dinners and events are excellent opportunities to relax, unwind and enjoy each other's company in a more intimate setting with residents from each class represented. Recent gatherings have included BBQs, cookie-decorating parties, and game nights.

**Tox Rounds**
The House Staff Association sponsors frequent evening get-togethers at restaurants and bars around Boston. In the past year, the House Staff Association has hosted a Match Day celebration along with many additional Happy Hours.

**Resident Get-Togethers**
The residents arrange many other events together including Halloween parties, engagement parties, karaoke nights, ice cream parties, apple picking weekends, bowling parties, Red Sox games, dessert parties, and more. In recent years the residents have averaged one or more social events each week!
Sports

Many BCRP residents participate in organized sports. In the past, residents have organized BCRP softball, basketball, and soccer teams in leagues throughout Boston, and some have won titles! One example is the Malpractice Dodgers, pictured to the right, a team of BCRP residents, alumni, and significant others that play in the Boston Children’s Hospital league in Hyde Park. Other residents take advantage of hiking and biking trails in Boston and the region or have memberships in local gyms such as the YMCA, Crossfit or Boston Sports Club. Harvard University and Harvard Medical School athletic facilities are available to residents for a small fee, and residents enjoy benefits of discounted memberships at many gym facilities across the city. Harvard Medical School has a gymnasium, squash courts, extensive exercise equipment and an outdoor tennis court.
Having Fun Together

Winter Formal

Winter Formal Dinner

BCRP Engagement Party

Italian Night

Oktoberfest

Chicago Night

India Night

Chinese Night
Having Fun Together

Halloween Party

Apple Picking Weekend

Ice Skating Party

Ice Cream Party

Thanksgiving

Chicken Pox

Dessert Contest

Febrile Seizure

BOSTON COMBINED RESIDENCY PROGRAM
Having Fun Together

Housestaff Show

Residents Wailing on Karaoke Night

Housestaff-Faculty Chorale Caroling

Intern Trip to Puerto Rico

Beef Fest and Mustache Contest

Bowling

Two of Many Many Tox Rounds
Having Fun Together

- BBQ
- Rooftop shrimp boil
- Biking to the beach
- Hiking
- Sports
- Running the Boston Marathon
- Ugly Christmas sweater party
- St. Paddy’s day
- Talk like a pirate day in the hospital
- Chiefs at Red Sox game
- Taylor Swift concert
- BCRP on the slopes
Boston

Boston is a medical center like no other, with three major medical schools and about 27 hospitals. Immensely diverse and vibrant, Boston is a city of some twenty neighborhoods with Cambridge and Brookline as bordering communities. Persons of color comprise over 40% of the city’s population and over one-third of all students enrolled in Boston Public Schools speak a language other than English at home.

Transportation

Boston is blessed with excellent public transportation. The MBTA subway system (or just “the T”) extends throughout Boston, most of Brookline and Cambridge, parts of Newton, and to near north and south shore suburbs. More distant towns are served by commuter rail. The Longwood Medical area is centered within 2-3 blocks of two different Green line routes. There is also an extensive bus system, including a shuttle bus from Harvard University to the Medical School. Parking is expensive in the Longwood area, but residents who drive can park in cheaper outlying lots and use Children’s shuttle buses. Residents can park in the patient lot across from Children’s for free at nights (6 pm to 10 am) and on weekends. Residents who leave the hospital late at night can also obtain free taxi vouchers. Residents who enroll in the Hospital’s T-Pass Program receive a 40% discount on monthly MBTA passes. For those who park in more distant lots, the hospital provides a free shuttle service. There is also a free shuttle (M2 Shuttle) from the Longwood Medical Area to Harvard Square in Cambridge.

Residents who do not have their own cars can obtain Zipcars for occasional use. In addition, Children’s Hospital provides a free bike cage in the Patient/Family Garage for employees who cycle to work.

History

Boston was founded in 1630 and is central to American history. History buffs can trek the Freedom Trail, which connects many historically important sites, from the Old State House, where the Declaration of Independence was first read, to Paul Revere’s House to the USS Constitution (“Old Ironsides”). Sites of pivotal battles at Bunker Hill, and in Lexington and Concord, are also national monuments and nearly every town has a historical society. Old Sturbridge Village is an authentic recreation of a colonial village, with historic housing and costumed inhabitants that is located in Sturbridge, an hour west of Boston. Plimoth Plantation is a similar recreation of the original Plymouth Colony just south of Boston. And touristy Salem, home of the infamous witch trials, lies to the north.

Arts and Culture

Boston is a cultural Mecca. The Boston Symphony and Boston Pops are world-renowned, but there are several other professional symphonies and innumerable civic and college orchestras. In fact, the medical area has its own
The outstanding Longwood Symphony is composed predominantly of doctors from the hospital area

orchestra, the Longwood Symphony, composed mostly of physicians, that is very high quality. There are also over 150 amateur choral groups (and here), including many outstanding ones: the Cantata Singers, the Boston Cecelia and the Handel and Hayden Society to name just three.

The Museum of Fine Arts and the Isabella Stuart Gardner Museum are world-class fine art museums and are only a 3-block walk from Children’s Hospital. The Institute of Contemporary Art and the Harvard Art Museums are two others of note.

The Museum of Science and the Harvard Museum of Natural History and the John F. Kennedy Library and Museum are also outstanding.

The Boston Lyric Opera highlights a growing opera scene, and the Boston Ballet is one of the country’s best.

There are numerous theater companies including the Harvard-affiliated American Repertory Theater (ART), the Huntington Theater Company and the Lyric Stage of Boston. Plus, Boston is an increasingly frequent venue for pre-Broadway tryouts and touring national companies — at the ART and in the gilded grandeur of the splendid Colonial Theater, the grand dame of Boston theater venues.

Sports

Boston is a great sports town. The Red Sox, Celtics, Patriots and Bruins have often been outstanding in recent years. Unfortunately, the Revolution (soccer) have not been very competitive. Fenway Park is only a 10-minute walk from the hospital (~5 blocks) and the TD Garden, where the Celtics and Bruins play, is a short subway ride. The Patriots and Revolution play in Foxboro, MA, which is about 20 miles south of the city.

For those who prefer participatory sports, the Harvard University Athletic Facilities and Harvard Medical School Athletic Facilities are available for a small fee. Harvard University offers facilities for indoor and outdoor tennis, swimming and diving, ice skating, jogging, squash, basketball, baseball, field hockey, lacrosse, rugby, volleyball, rowing, and sailing, plus others, and extensive exercise and weight training. The Medical School has a gymnasium, squash courts, cardiovascular and strength training equipment and an outdoor tennis court. Groups

Bob Vinci and BCRP residents with the Stanley Cup

Some residents (and resident supporters) participate in the marathon
like the Boston Ski and Sports Club organize year round sports leagues, as well as sporting trips.

Boston is a great running and biking city. There are numerous Bikeways, particularly along the Charles River and through the 'Emerald Necklace' string of parks, which lies just 3 blocks from the Longwood area. The same routes are popular for running. For serious runners, the famous Boston Marathon occurs each spring on Patriots Day, which is a local holiday, allowing those who wish to run, to participate. Many housestaff and faculty do.

Golfers have many opportunities in the Boston area. There are 102 18-hole public courses within an hour of Boston including many award winning courses, such as Pinehills in Plymouth, Red Tail in Devens, Shaker Hills in the town of Harvard, Shining Rock in Northbridge, Butter Brook in Westford, Stow Acres in Stow, and George Wright in Hyde Park, the latter a Boston Municipal course designed by Donald Ross.

Housing and Schools

Housing is relatively expensive in Boston, roughly equivalent to Seattle, though less than New York City, Washington, DC, or the major cities in California (see examples). To compensate, the BCRP offers higher than average salaries. In addition, Children’s Hospital offers a Lease Guarantee program. If a landlord requires advance payment of the last month’s rent and/or a security deposit, Children’s Hospital will guarantee payment to the landlord. Details of the Lease Guarantee Program and other useful housing information is available on the Children’s Hospital website. Real estate information is available from a number of sources including the Boston Globe, which also publishes a useful rental search engine.

Other good sources for rental housing are Rental Beast, Craig’s List, Zillow, the Harvard Off-Campus Rentals website, the Harvard Housing Office, and the information on Housing and other topics on the website of the BCH Office of Fellowship Training. For those interested in purchasing property, the Harvard Faculty Real Estate Office provides useful services.

Boston and Cambridge schools are variable but the schools in Brookline, Newton and many other suburban communities are outstanding. The Greatschools website contains considerable information about individual schools. Data on test scores for children in Massachusetts schools is also available.

Kids

Boston is a great city for kids because there are so many things to see and do in the city and nearby, and because the transportation system is safe and extensive. The Children’s Museum and the Museum of Science are each among the best in the country. The inexpensive Community Boating Program ($1 to $300 per year for kids depending on family income) is also outstanding and is an incredible bargain for many. It offers sailing, windsurfing and kayaking on the Charles (lessons included). A good list of activities for kids can be found at Alpha Mom, Family Days Out, Family Friendly Boston, Mommynearest, and at Boston Central. The latter site also contains lots of useful information about Boston suburban communities.

Children’s Hospital has its own Child Care Center and there is a Bright Horizons Family Center at the nearby Landmark Center that is available to employees of Harvard Medical School and the Longwood Area hospitals. Kathleen Greer Associates (KGA, Inc) is Children’s Employee Assistance and Information Program. They will help residents find childcare services. The Longwood Medical and Academic area (LMA) Family Childcare Network (FCCN) also matches LMA employees with family child care providers who provide childcare in

Construction Zone at the fabulous Boston Children’s Museum
their homes for families who work in the Longwood Medical area. Learn more here.

For those interested in nannies, the Brigham and Women’s Hospital's Office for Women's Careers, hosts a Nanny Network list-serve, which offers a forum for faculty and residents to share nanny requests, as well as information on nannies who may be leaving your family once you’ve ‘outgrown them’. To join the list-serve send an email to owc@partners.org with “I want to join the Nanny Network” in the subject line. Care.com also offers listings of nannies.

Cultural Care Au Pair (CCAP) is the largest Au Pair company in the world and offers affordable child care option for benefits-eligible Boston Children’s employees.

For grown-up kids, the Boston Event Guide is a collection of local events for those nights off. The Mass Vacations website contains scads of useful information about the region and things to do.

**Restaurants and Night Life**

Boston is a world-renowned center for ideas and learning. Some 65 colleges, universities and other institutions of higher education attract more than 200,000 students. No other major city has such a high proportion of students. Their energy invigorates the city’s restaurant and nightlife, from club hopping on Lansdowne Street to the live music scene in the cafes and coffeehouses. Live music includes Latin, jazz, blues, gospel, folk and classical. Boston is a great restaurant town. There are many outstanding restaurants and enormous variety. The restaurant reviews in the Boston Globe and Zagats are particularly useful.

**Waterfront**

Downtown Boston is a peninsula, surrounded by water on three sides: the harbor on the east and north, and the Charles River on the west. Unlike many cities, much of the waterfront is recreational space. The harbor offers boating of all kinds, fishing, and a number of community beaches. There is a Harborwalk with many parks and other venues. The Harbor Islands are part of the National Park system and are accessible by ferry for day trips and picnicking.

The Charles River side is even more scenic, with a 17-mile Esplanade along the shore, the Hatch Shell for summer concerts, the famous Duck Boat Tours and a Community Boating Program that allows individuals or families to sail any of a fleet of 113 boats (or kayaks or wind surfers) in the Charles River Basin and that provides children with instruction and all-summer boating. Every July 4th, the Esplanade is packed with crowds for a spectacular Boston Pops concert and fireworks show. The Charles River is also known for its rowing and sculling. The famous Head of the Charles regatta, the world’s largest 2-day rowing event, is held every year in October.
Boston Neighborhoods and Nearby Communities

Boston is a city of neighborhoods. Beacon Hill dates from the 18th century and features cobblestone streets, gaslights and brick front Georgian townhouses. Back Bay was built a century later by the Boston elite and contains gorgeous Victorian townhouses with wide streets and small front gardens. It also includes the fanciest shopping area in Boston, along lower Newbury and Boylston streets plus the Prudential Center and Copley Place shopping centers. The old North End, which dates from Colonial times, still retains much of its strong Italian heritage. The South End is a vibrant newly restored, cosmopolitan district and includes the Theater District and many of the best restaurants. Bay Village is a charming historic part of the South End. The Harbor area is also newly renovated. Many wharves have been recycled as high-end condominiums. Chinatown is Boston’s center for the Asian community. The Fenway area, which is closest to the hospitals and includes Fenway Ball Park, has a particularly high concentration of student housing, cultural organizations and parkland.

Charlestown, Brighton, Allston, South Boston, East Boston, Roxbury, Dorchester, Mattapan, Jamaica Plain, West Roxbury, Hyde Park and Roslindale are other Boston neighborhoods. Some housestaff have recently purchased homes in parts of Jamaica Plain, West Roxbury and Dedham, which are reasonably close to the Longwood Medical Area.

Brookline is a very high quality suburb that begins just 3 blocks west of the Longwood Medical Area. It has superb schools and shops and multiple subway lines. Although homes in Brookline are extraordinarily expensive, condominiums and apartments are more reasonably priced, and many interns and residents live there.

Cambridge lies just across the Charles River from Boston and is home to Harvard University and MIT. Many housestaff enjoy the intellectual ferment of Cambridge and live in the residential areas near Harvard Square. There is a regular shuttle bus from Harvard Square to Harvard Medical School and good subway connections.

For those interested in identifying the most prestigious communities, a list of towns with the most millionaires is available.

Similarly, there is a useful map defining the level of education of those who live in various communities throughout metropolitan Boston.

The website Jumpshell has useful information about Boston area neighborhoods and median rental prices.

Suburban Communities

Greater Boston is actually a conglomerate of over 100 small to medium-sized towns and villages, most of which were incorporated in the 17th and 18th centuries. As such it differs greatly from the more homogeneous towns in many other parts of the country, because each of the Greater Boston communities has its own character, government and school system. The range of variation is quite remarkable. Marblehead is centered on sailing, Lincoln and Hamilton on horseback riding, Lexington and Concord on colonial history, and so on. The Boston Globe contains many tables of useful facts about local towns. In addition, Children’s Hospital has created a downloadable brochure that contains useful advice and data about local communities, transportation, relevant phone numbers, housing searches, the CHB Lease Guarantee Program, Harvard and Children’s housing resources and voter registration.
Within Massachusetts

Beaches
The Massachusetts shoreline is dotted with beaches, some, like Revere Beach, even serviced by the MBTA. Beaches on the outer arm of the Cape and north of the Cape tend to have colder water than beaches on the south coast of the Cape, on Martha’s Vineyard and Nantucket, and lining Long Island Sound, which are brushed by fringes of the Gulf Stream. It’s difficult to choose the Perfect Beach because tastes and uses vary, but we recommend Horseneck Beach in Westport, MA, near the Massachusetts-Rhode Island border. This 2.5-mile beach features beautiful dunes, warm(ish) water and adequate parking. Other beaches are also recommended. For those looking to do more than just enjoy the sun and sand at the beach there are other choices.

The Cape and Islands
Cape Cod is Boston’s summer vacation spot. It offers a wide variety of attractions. From quaint, historic old towns like Sandwich, founded in 1638, or charming, gray-shingled Chatham, to the Cape Cod National Seashore, with its 40 miles of ocean beaches, dunes, salt marshes and pine barrens, to free-living, freethinking Provincetown at the tip of the Cape. There is a ferry to Provincetown from Boston.

Nantucket and Martha’s Vineyard are reached by ferry from Woods Hole or Hyannis on the Cape. Nantucket Town is historic and charming, with cobblestone streets and 18th century homes. Outside the town one finds an otherworldly landscape of ponds, thickets, moors and heath. There are 80 miles of gorgeous beaches, great biking trails and the village of Siaconset (‘Sconset) with its privet hedges and rose-covered trellises. Martha’s Vineyard is more varied and more Victorian, but also charming.

Rockport and Cape Ann
Cape Ann, on the North Shore of Boston, extends from the classic fishing port of Gloucester around to the quaint English-like village of Annisquam. It includes Rockport, a charming artist’s colony, and the bizarre Hammond Castle.

Marblehead
Lying between ‘witchy’ Salem and Cape Ann, Marblehead was one of the earliest and richest settlements in America. This charming early Colonial era town with narrow streets has over 300 pre-Revolutionary War homes and overlooks a spectacular harbor filled with boats. Called the Yachting Capital of America, Marblehead was the birthplace of the American Navy and retains its sailing focus.
Berkshires and Tanglewood
The Berkshires refers to the area around Lenox and Stockbridge in the western portion of Massachusetts. It is a region of green hills, quaint New England villages, the Norman Rockwell Museum, and Tanglewood, the summer home of the Boston Symphony Orchestra.

Williamstown
A beautiful New England town in the mountainous heart of the northern Berkshires, Williams-town is home to two extraordinary art museums—the Sterling and Francine Clark Art Institute and the Williams College Museum of Art—and the renowned Williamstown Theatre Festival, arguably America’s premier summer theater. The exceptional collection of impressionist paintings alone makes the Clark worth a visit.

Amusement Parks, Trampoline Parks and Escape Rooms
Canobie Lake Park lies just over the New Hampshire border and is a beautiful, old-time (117-years old), family-oriented park that is especially appropriate for preschoolers to preteens. Lake Compounce in Bristol, CT is another excellent family-oriented park. Six Flags Amusement Park is the big-coaster-type park, near Springfield, MA, that is more oriented to teens and adults. Six Flags also has an excellent water park, but the closest big water parks are Water Country in Portsmouth, NH and Water Wizz, in Wareham, MA. Water Country is especially good and not that far. For kids in the winter, Coco Key in Danvers and Great Wolf Lodge in Fitchburg are indoor waterparks. Companies like Escape The Room, Room Escapers and Trapology present puzzle challenges that are a new kind of amusement that is great in the winter months. The Sky Zone has tons of trampolines and related attractions like trampoline dodgeball and basketball that will also keep kids, from toddlers on up, entertained.

New England Getaways
One of Boston’s gifts is its proximity to great natural beauty. Right in the city is the famous ring of connected parks called the Emerald Necklace, which includes the Arnold Arboretum. A short drive will get you a relaxing weekend listening to the Boston Symphony play at Tanglewood in the Berkshire Mountains of Western Massachusetts, or hiking Mount Monadnock, or hiking and biking in the White Mountains of New Hampshire. A free day from the hospital could mean escaping to scenic Vermont, or to miles of rugged coastline in Maine or to the beaches of Cape Cod. Or exploring the nation’s maritime history in Mystic, CT. Take a ferry ride to the islands of Martha’s Vineyard or Nantucket. And, New York City is only four-hour drive from Boston.

Newport
Newport is both a historic town with more 17th and 18th century homes than any other place in the country, and the fabled summering place of the fabulously wealthy during the Gilded Age at the end of the 19th century. The mansions, like the Vanderbilt’s opulent ‘The Breakers’ or ‘Rosecliff’, of Great Gatsby fame, or Marble House are worth the trip, as is the Ocean Drive along Newport’s spectacular rocky shore.
One of our faculty, who summers in Acadia has created a useful guide to the activities there.

Lakes

There are many beautiful lakes in New England. Indeed many in northern Maine are wilderness lakes, only accessible by floatplane or logging road. Nearer Boston, Lake Winnipesaukee in mid-New Hampshire is a recreational paradise, especially along its western shore. The Squam Lakes, just south of the White Mountains, depicted in the movie "On Golden Pond", are more peaceful. Sebago Lake in southern Maine is also a popular resort area.

Outdoors Activities

Hiking

The hiking in New England is some of the best anywhere. The Appalachian Trail extends through Massachusetts, Vermont and New Hampshire, terminating at Mt Katahdin in Maine. The White Mountains in New Hampshire are among the very best with 48 peaks above 4000 ft and many dozens of hikes. Some of these are described at Hike the Whites. The Appalachian Mountain Club and trails.com are also excellent resources. The Boston Globe has published a nice compilation of early season hikes in New Hampshire. Acadia National Park is another extraordinary place for hiking. The 120 miles of (and here) were mostly built in the early 20th century and vary from gentle woodland and oceanside walks to exhilarating cliff climbs along ledges assisted by iron ladders and steps cut into the rocks. Mt Monadnock is another excellent spot for hiking. The solitary mountain is located just over the Massachusetts-New Hampshire border, about an hour from Boston, and has excellent views. The surrounding region is charming and contains numerous prototypical New England villages. For kids, the 70 ft high, quarter mile long Purgatory Chasm in Sutton, MA, offers rock caves and many fun climbing challenges.

Biking

Biking is also excellent in New England, both mountain biking and trail riding, including numerous rides in the Boston area. Acadia National Park has 50 miles of beautiful, fine gravel carriage roads (and here) which wind

Mystic Seaport

Site of shipbuilding since the 17th century, tiny Mystic, CT contains Mystic Seaport, the country’s premier maritime museum. There is also an aquarium and, nearby, two of the world’s largest casinos: Foxwoods and Mohegan Sun.

Maine Coast

Maine is famous for it’s pinewoods, rugged, rocky shore, and lobsters. Southern Maine is more accessible and also beautiful, but 'Downeast' Maine, north of Portland, is even more so, particularly the areas around Boothbay Harbor, Camden, Blue Hill and Bar Harbor. Bar Harbor is located on Mt Desert Island, which also houses Acadia National Park, one of the most popular national parks in the US. Acadia has the highest mountains on the ocean north of Rio de Janeiro and the only fiord in the Americas. The scenery is spectacular and is amplified by an extraordinary variety of outdoor activities (hiking, biking, rock climbing, canoeing, sea kayaking, sailing, deep sea fishing, whale watching), along with outstanding restaurants, art galleries and opportunities for antiquing.

Lakes

There are many beautiful lakes in New England. Indeed many in northern Maine are wilderness lakes, only accessible by floatplane or logging road. Nearer Boston, Lake Winnipesaukee in mid-New Hampshire is a recreational paradise, especially along its western shore. The Squam Lakes, just south of the White Mountains, depicted in the movie "On Golden Pond", are more peaceful. Sebago Lake in southern Maine is also a popular resort area.
among the lakes and mountains, with fabulous views and some exciting ups and downs. They were built at great expense by John D. Rockefeller, Jr. between 1913 and 1940, and are now used for biking and horseback riding (no motor vehicles allowed). The trails are listed among the "Most Epic Rides in US National Parks". On Cape Cod, the 22-mile Cape Cod Rail Trail is newly refurbished. It extends from Dennis to Wellfleet along ponds, salt marsh and cranberry bogs. This is only one of many bike paths created from old railroad lines. In Rhode Island, the 14.5-mile, paved East Bay Bike Path hugs the coast from Providence to Bristol, passing a wildlife refuge, salt- and freshwater marshes and an open panorama of Narragansett Bay. For mountain bikers, Sunday River Ski Resort in Maine offers weekend lift service to 25 trails covering over 20 miles of terrain.

Ziplines
There are numerous opportunities for zip lining in New England. For adrenaline junkies, some lines are more than a half mile long and 200 ft in the air. Others involve tours combining multiple zip lines, sky bridges, rappels and other challenges.

Canoeing and Kayaking
In the Boston area there is very enjoyable canoeing on the Charles River and on the Concord-Sudbury-Assabet Rivers. The latter offers an opportunity to paddle under the historic Old North Bridge and into the Great Meadows National Wildlife Refuge beyond. The enormous numbers of lakes in the northern Maine Wilderness offer exceptional opportunities for extended fishing, camping and canoeing trips. One of the most famous is the trip down the Allagash Wilderness Waterway. For something more casual on a summer day, Farmington River Tubing in New Hampshire provides a cooling 2.5-mile tube ride down the Farmington River and a bus ride back to the launch point.

Whitewater Rafting
There are a wide variety of whitewater rafting trips available in Western Massachusetts and elsewhere in New England, varying from Class II-III rapids up to Class IV on parts of the Kennebec and Dead Rivers in Maine.

Skiing and Snowboarding
New England has 56 downhill ski areas, from small family run operations to giant destination resorts. The snow conditions are less predictably excellent than in the West, but the resorts are more accessible to those wanting day trips. The Blue Hills is a small area just south of the city and offers night skiing. Larger areas within 1.5-2 hrs distance include Waterville Valley, Sunapee and Loon in New Hampshire. The largest and most popular areas, like
Killington, Stratton, Sugarbush and Stowe in Vermont; Cannon and Wildcat in New Hampshire; and Sunday River in Maine are 2.5-3 hours driving distance. Sugarloaf, a terrific mountain in Maine, is even a bit further. Virtually all New England ski areas also cater to snow boarders.

For cross-country skiing, it’s hard to beat the trail system in Jackson, NH, which is also about 2.5-3 hrs away. Imagine a whole New England Village dedicated to Nordic skiing, with a white-steepled church, covered bridges, rivers with cascading waterfalls, sundry eateries, charming country inns and 100 miles of cross country ski trails. Its no wonder that the Jackson Ski Touring Foundation is listed #1 in the US. For cross-country skiing close to Boston, the Weston Ski Track is recommended.

**Fishing and Whale Watching**

Boston is a worldwide destination fishery for striped bass, blue fin tuna, bluefish, flounder and cod. Salt-water fishing is especially popular, and colleagues with boats and experience are available within the program to introduce interested individuals to the sport. Boston Harbor has been completely cleaned up beginning in the 1980s with the installation of the massive Deer Island water treatment plant, and its waters are now pristine. Striped bass migrate north to Boston harbor in early May, and the 39 Boston Harbor Islands provide ideal structure and a very picturesque venue for striped bass fishing. In August and September, medium sized blue fin tuna (30 to 120 lbs) move into Cape Cod Bay near Boston, and feed actively on the surface, becoming prime targets for light tackle fly and spin fishing anglers. Tuna travel with whales, providing interesting whale watching opportunities on Stellwagen bank while searching for the elusive schools of tuna. Bluefish arrive around the same time as the tuna, and provide exciting surface action as they feed on schools of baitfish in Boston Harbor. All fish species are safe to eat due to the successful harbor clean up. Fresh water fishing is also popular. Freshwater species include: large and small mouth bass, lake trout, perch, walleye, northern pike and land-locked salmon. Fly-fishing for trout in New England streams is also popular. And, for the hardy there is ice fishing in the winter.
Fellowships

A variety of fellowship programs are offered at Children’s Hospital and Boston Medical Center for qualified physicians who have completed their residency training and want to prepare for academic careers in pediatrics or allied fields. The fellowships and fellowship contacts are listed here for intern applicants who want to investigate fellowship opportunities as well as the BCRP residency. We are happy to help applicants who want to explore fellowships and are willing to devote part of an extra day to meeting with faculty or fellows in a particular field.

Boston Children’s Hospital

**Adolescent Medicine**
Catherine Gordon, M.D.

**Allergy/Immunology**
Hans C. Oettgen, M.D., Ph.D.

**Cardiology**
David W. Brown, M.D.

**Child Neurology Residency**
Mustafa Sahin, PhD, M.D., Dir Residency Selection
David K. Urion, M.D., Program Director
  - **Neurodevelopmental Disabilities**
    David K. Urion, M.D.
  - **Clinical Neurophysiology/Epilepsy Fellowship**
    Phillip Pearl, M.D.

**Clinical Informatics**
Jonathan Hron, M.D.

**Critical Care**
Meredith van der Velden, M.D.

**Developmental Medicine**
  - **Developmental-Behavioral Pediatrics**
    Lisa Albers Prock, M.D., M.P.H.

**Emergency Medicine**
Joshua Nagler, M.D.

**Endocrinology**
Diane Stafford, M.D.

**Gastroenterology and Nutrition**
Paul A. Rufo, M.D.
  - **Advanced Hepatology and Transplant Fellowship**
    Paul A. Rufo, M.D.

**General Pediatrics**
  - **General Academic Pediatrics**
    Joanne E. Cox, M.D.
  - **Pediatric Environmental Health**
    Alan D. Woolf, M.D., M.P.H.
  - **Harvard Pediatric Health Services Research**
    Jonathan Finkelstein, M.D.

**Genetics**
Amy E. Roberts, M.D.

**Global Health Services Delivery**
Michelle Niescierenko, M.D.

**Hematology/Oncology**
Jennifer Kesselheim, M.D.
  - **Neuro-oncology Fellowship**
    Susan Chi, M.D.
  - **Palliative Care Fellowship**
    Joanne Wolfe, M.D.
  - **Stem Cell (Bone Marrow) Transplant**
    Leslie Lehmannm M.D.

**Hospital Medicine**
Sarah McBride, M.D. and
Christopher P. Landrigan, M.D., M.P.H.

**Infectious Diseases**
Tanvi S. Sharma, M.D.

**Medical Toxicology**
Michele M. Burns Ewald, M.D.

**Nephrology**
Michael A. Ferguson, M.D.

**Newborn Medicine**
John A. F. Zupancic, M.D., Sc.D.

**Psychiatry**
Oscar Bukstein, M.D.

**Respiratory Diseases**
Debra M. Boyer, M.D.

**Rheumatology**
Hans C. Oettgen, M.D., Ph.D.

**Sports Medicine**
Pierre A. d’Hemecourt, M.D.

Boston Medical Center

**Child Neurology Residency**
Rinat Jonas, M.D.

**Developmental and Behavioral Pediatrics**
Naomi Steiner, M.D.

**General Academic Pediatrics**
Carolyn J. Kistin, M.D.

**Infectious Diseases**
Elizabeth D. Barnett, M.D.

**Pediatric Emergency Medicine**
David Dorfman, M.D.
Results

What Our Residents Do Next
The BCRP specializes in training academic pediatricians. **Eighty-six percent** of the program’s graduates during the past five years have continued on a pathway leading to an academic career. This is an **exceptionally high percentage**.

The residents enter a wide variety of fields. Although some go to programs across the country, about 75% continue their training at Boston Children’s Hospital.

Careers of Our Residents
The “graduates” of the residency program during the past 40 years best illustrate the success of our approach to training and our ability to achieve our goal of training leaders in American pediatrics. To evaluate our success, one must consider the cohort who completed their residencies between 1968 and 1992. More recent residents are still finishing their training or are relatively early in their academic careers and have not reached their full potential.

Leadership Positions
The 1968-1992 cohort contains 559 individuals of whom we have follow-up information on 87 percent (as of 2007). **Seventy-one percent of these are currently in academic medicine** or are recently retired from academic positions and **44 percent are leaders in academic medicine**. An additional 15 percent hold senior academic ranks. **Thus, 83 percent of the group in academic medicine have reached positions of prominence**. An additional 7% have had major success within the biotech or business community, as authors, or in other medical pursuits.

Select Societies and Awards
As of 2007, a remarkable number of the 1968-1992 graduates of our residency program were members of institutions that guide American medicine and pediatrics and that select their members based on scientific accomplishment.

- National Academy of Sciences and/or National Academy of Medicine - 14 members (currently 20 active members from all years)
- American Society of Clinical Investigation - 36 members
- American Pediatric Society - 84 members
- Society for Pediatric Research - 112 members

| What Residents (N=809) Did in the Year Following Residency (2002-19) |
|---------------------------|--------|-----|
| Number | % |
| Academic Career | |
| Second residency or fellowship | 627 | 84 |
| Chief residency | 87 | 12 |
| Faculty | 30 | 4 |
| Practice Career (Private practice, neighborhood health centers & HMOs) | |
| 65 | 8 |

Residencies and Fellowships Chosen (2002-15)

<table>
<thead>
<tr>
<th>1968-1992 Residents: Current Jobs</th>
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<tbody>
<tr>
<td>• Academic</td>
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<tr>
<td>- Senior Administrator or Dean</td>
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<td>- Department Chair</td>
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<tr>
<td>- Division Chief</td>
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<tr>
<td>- Head of Major Clinical Program</td>
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<tr>
<td>- Sr Researcher/Research Administrator</td>
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<tr>
<td>- Educator</td>
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<tr>
<td>- Senior Academician</td>
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<td>- Junior Academician</td>
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<tr>
<td>• Nonacademic</td>
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<tr>
<td>- Hospital-based private practice</td>
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<tr>
<td>- Private practice</td>
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<tr>
<td>- Authors</td>
</tr>
<tr>
<td>- Business, Biotech or Biopharm</td>
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<tr>
<td>- Other</td>
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BOSTON COMBINED RESIDENCY PROGRAM

National Academies

Election to the National Academy of Sciences or the National Academy of Medicine is one of the highest honors a physician or physician-scientist can achieve. No pediatric program has had more residents selected for membership in these two academies than the BCRP.

Active members of the National Academy of Sciences or the National Academy of Medicine who are graduates of the residency program

<table>
<thead>
<tr>
<th>Nancy C. Andrews</th>
<th>Stephen Joseph</th>
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<tr>
<td>Donald M. Berwick</td>
<td>Samuel Katz</td>
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<tr>
<td>Diana W. Bianchi</td>
<td>Isaac S. Kohane</td>
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<tr>
<td>Jan L. Breslow</td>
<td>Philip J. Landrigan</td>
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<tr>
<td>Michael Brown</td>
<td>Rudolph Leibel</td>
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<tr>
<td>Atul Butte</td>
<td>Louis J. Muglia</td>
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<tr>
<td>Patrick Conway</td>
<td>Stuart H. Orkin</td>
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<tr>
<td>Jonathan E. Fielding</td>
<td>Philip A. Pizzo</td>
</tr>
<tr>
<td>Jonathan D. Gitlin</td>
<td>Bonnie J. Ramsey</td>
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<tr>
<td>Todd R. Golub</td>
<td>Frederick Rivara</td>
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<tr>
<td>Alan E. Guttmacher</td>
<td>Mark C. Rogers</td>
</tr>
<tr>
<td>Robert Haggerty</td>
<td>Joshua Scharfstein</td>
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<tr>
<td>Jodi Heymann</td>
<td>Mark A. Schuster</td>
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<tr>
<td>Margaret K. Hostetter</td>
<td>Alan L. Schwartz</td>
</tr>
<tr>
<td>Anna Huttenlocher</td>
<td>Kathy Wilfert</td>
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</table>

E. Mead Johnson Award for Research in Pediatrics

The 1968-1996 graduates won 35% of the E. Mead Johnson awards (the most prestigious research award in pediatrics) that could have been won by their classes. Overall, Children’s trainees and faculty have won 37% of the 154 awards given since the inception of the award in 1939.

Residents (1968-2000) who were awarded the E. Mead Johnson award for research in pediatrics (year awarded)

<table>
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<tr>
<td>Steve A.N. Goldstein (2001)</td>
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</table>

Society for Pediatric Research Young Investigator Award

Since the inception of the SPR Young Investigator award in 1983, Children’s Hospital or BCRP-trained Faculty have won 42% of the awards given.

Residents who won the SPR Young Investigator Award (year awarded)

<table>
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<tr>
<td>Brian J. Feldman (2008)</td>
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</table>
Examples of Resident Careers

These examples are chosen from more than 250 leaders who graduated from residency between 1968 and 1992. The data were compiled in August 2007 and have been updated where changes in status are known. The year of graduation from residency is listed in parentheses.

Senior Administrators

Steven M. Altschuler, MD (1982) - CEO of UHealth and Senior VP of Health Affairs, University of Miami. Previously, President and CEO, Children’s Hospital of Philadelphia

Jonathan R. Bates, MD (1976) - President and CEO Emeritus, Arkansas Children’s Hospital.

Donald M. Berwick, MD (1977) - Senior Fellow at the Center for American Progress. Previously, Director, US Government Centers for Medicare and Medicaid Services. Previously, President and CEO of the Institute for Healthcare Improvement; Lecturer, Department of Health Policy and Management, Harvard.

Diana W. Bianchi, MD (1983) - Director of the National Institute of Child Health and Human Development (NICHD). Previously, Vice Chair for Research and Executive Director of the Mother Infant Research Institute. Dept. of Pediatrics, Tufts.

Kevin B. Churchwell, MD (1990) - Executive Vice President for Health Affairs and Chief Operating Officer, Boston Children’s Hospital. Previously, Sr Vice-President, Nemours and CEO, Nemours/Alfred I. duPont Hospital for Children in Wilmington, DE, and CEO and Executive Director, Monroe Carell Jr. Children’s Hospital, Vanderbilt.


Jonathan Finkelstein, MD (1991) - Chief Safety and Quality Officer, Boston Children’s Hospital, Harvard Medical School, Boston

Alan L. Goldbloom, MD (1976) - President and CEO, Children’s Hospitals and Clinics of Minnesota, St Paul, MN, Emeritus Vice President and CEO, Hospital for Sick Children, Toronto, Canada.

Steve A. N. Goldstein, MD, PhD. (1989) - University Professor, Senior Vice President and Provost, Brandeis University. Previously Chair, Dept of Pediatrics, Univ. of Chicago.

Raymond S. Greenberg, MD, PhD (1983) - President, Medical University of South Carolina.

Alan E. Guttmacher, MD (1985) - Previously, Director, National Institute of Child Health and Human Development, and before that Deputy Director, National Human Genome Research Institute, Director, Office of Policy, Communications and Education, NIH

Ellis J. Neufeld, MD, PhD (1988) - Executive Vice President, Clinical Director, Physician-in-Chief, of the St. Jude Children’s Research Hospital. Previously Associate Chief, Hematology/Oncology Boston Children's Hospital, Harvard Medical School.

Charles W. Roberts, MD, PhD (1995) - Executive Vice President and Director of the St Jude Comprehensive Cancer Center, St Jude Children’s Research Hospital, Memphis.

Mark C. Rogers, MD (1972) - Previously, Vice Chancellor of Health Systems, Duke Univ. Med. Ctr, Senior VP, Perkin-Elmer, and CEO Duke Hospital. Chairman and CEO of Bradmer Pharmaceuticals, Chairman of Cardiome Pharma Corp, and Chief Executive Officer of Paramount Capital Inc. Currently, Accounts Manager of AtCor Medical Limited.

John R. Schreiber, MD (1983) - CEO, Baystate Health and President, Baystate Medical Practices. Chair Emeritus, Dept. of Pediatrics, Tufts Univ and Dept of Pediatrics, Univ. of Minnesota.

Stephen P. Spielberg, MD, PhD (1976) - Previously, Dean, Dartmouth Medical School, Vice President of Pediatric Drug Development at Johnson & Johnson, and Deputy Commissioner of the Food and Drug Administration (FDA) for Medical Devices, Drugs, Biologics and Tobacco Products, and Special Medical Programs. Currently, Professor of Pediatrics and of Pharmacology and Toxicology at Dartmouth Medical School.

Donald L. Weaver, MD (1976) - Rear Admiral, US Public Health Service and previously, Acting Surgeon General, Deputy Associate Administrator for Primary Health Care in the Health Resources and Services Administration, and Director National Health Service Corps.

Deans

Herbert T. Abelson, MD (1971) - Previously, Associate Dean of Admissions, Chicago, Chair, Dept of Pediatrics, Univ of Chicago, and Chair, Dept. of Pediatrics, Univ. of Washington, Seattle.

Nancy C. Andrews, MD, PhD (1990) - Dean Emeritus, Duke University School of Medicine. Previously, Dean for Basic Sciences and Graduate Studies, Harvard Medical School and Investigator, Howard Hughes Medical Institute.

Ellis D. Avner, MD (1978) - Associate Dean for Research and Director, Children’s Research Institute, Medical College of Wisconsin. Ex-Chair, Dept. of Pediatrics, Case-Western Reserve Univ. School of Medicine.


S. Bruce Downotn, MD (1984) - Principal of Downot Consulting International, Inc. Previously, Dean of Medicine, University of New South Wales, Sydney, Australia, and Senior Vice-President and CEO, Partners Harvard Medical International.

Lewis First, MD (1984) - Chair of Pediatrics and, previously, Sr Associate Dean, Educational and Curriculum Affairs, Vermont.

Jody Heymann, MD, PhD (1992) - Dean, Fielding School of Public Health, UCLA. Previously, Canada Research Chair in Global Health and Social Policy and Founding Director, Institute for Health and Social Policy, McGill University.

Alan M. Krensky, MD (1980) - Vice Dean for Development and Alumni Relations, Northwestern Feinberg School of Medicine. Previously, Deputy Director, NIH, and Associate Dean for Child Health, Stanford Medical School.

Philip A. Pizzo, MD (1973) - Dean Emeritus, Stanford University School of Medicine. Emeritus Chair of Pediatrics and Physician-
in-Chief, Boston Children's Hospital.

Norman Rosenblum, MD (1984) - Associate Dean, Physician-Scientist Training and Associate Director, McLaughlin Centre for Molecular Medicine. Univ Toronto and Hosp for Sick Children.

Mark A. Schuster, MD, PhD (1991) - Dean, Kaiser Permanente School Of Medicine. Formerly, Chief of General Pediatrics, Boston Children's Hospital, Harvard Medical School, and Chief of General Pediatrics and Vice Chair for Health Services, Policy, and Community Research, UCLA.

**Department Chairs**

Scott A. Armstrong, MD, PhD (1998) - Chair, Dept. of Pediatric Oncology, Dana-Farber Cancer Institute, Harvard Medical School. Previously, Director, Leukemia Center, Memorial Sloan Kettering Cancer Center

Harvey J. Cohen, MD, PhD (1973) - Chair Emeritus, Dept. of Pediatrics, Stanford.

J. Devn Cornish, MD, PhD (1981) - Chair Emeritus, Dept. of Pediatrics. Currently, Vice-Chair for Faculty Development, Emory.

Paul H. Dworkin, MD (1976) - Chair of Pediatrics and Physician-in-Chief, Connecticut Children's Medical Center.

Eric Eichenwald, MD (1987) - Chair, Dept of Pediatrics, Univ of Texas, Houston.

Erwin W. Gelfand, MD (1970) - Chair, Dept of Pediatrics, National Jewish Hospital, Denver.

Jonathan D. Gitlin, MD (1981) - Chair Emeritus, Dept. of Pediatrics, Monroe Carell Jr. Children's Hospital, Vanderbilt University.

Margaret K. “Peggy” Hostetter, MD (1978) - Chair, Dept. of Pediatrics, Cincinnati Children's Hospital. Chair Emeritus, Dept. of Pediatrics, Yale.

Isaac S. "Zak" Kohane, MD, PhD (1990) - Chair, Dept of Biomedical Informatics and Director, Countway Library of Medicine, Harvard Medical School. Director, Boston Children's Hospital Informatics Program.

Bruce Korf, MD, PhD (1983) - Chair, Dept. of Genetics, Alabama.

Philip J. Landrigan, MD (1970) - Professor & Chair, Dept. of Preventive Medicine and Director of the Children’s Environmental Health Center, Mt Sinai, NY.

Nobutake Matsuo, MD (1971) - Chairman Emeritus, Dept of Pediatrics, Keio University School of Medicine, Tokyo, Japan.

John F. Modlin, MD (1974) - Chair, Dept. of Pediatrics, Dartmouth.

E. Richard Moxon, MB BCh, FRS (1972) - Professor and Chair, Dept. of Paediatrics, University of Oxford.

Richard "Rick" J. O'Reilly, MD (1973) - Chair, Dept. of Pediatrics, Memorial Sloan-Kettering Cancer Institute

Stuart H. Orkin, MD (1975) - Chair Emeritus, Dept. of Pediatric Oncology, Dana-Farber Cancer Institute, Harvard Medical School, Investigator, Howard Hughes Medical Institute.

Scott Pomeroy, MD, PhD (1985) - Neurologist-in-Chief and Chair, Dept. of Neurology, Boston Children's Hospital, Harvard.

DeWayne M. Pursley, MD (1987) - Neonologist-in-Chief, Beth Israel Deaconess Medical Center, Harvard Medical School

David S. Rosenblatt, MD (1976) - Chair, Dept. of Human Genetics, McGill.

David H. Rowitch, MD, PhD (1992) - Chair, Dept of Pediatrics, Cambridge University, Cambridge, England. Previously, Chief, Div. of Neonatology, UCSF.

J. Philip Saul, MD (1985) - Chair, Dept. of Pediatrics, Nationwide Children's Hospital, Ohio State Univ., Columbus, OH.

Nina F. Schor, MD, PhD (1984) - Chair, Dept. of Pediatrics, Rochester.

Alan L. Schwartz, MD, PhD (1979) - Chair, Dept. of Pediatrics, Washington Univ., St Louis.

Gary A. Silverman, MD, PhD (1987) - Chair, Dept of Pediatrics, St Louis Children’s Hospital, Washington Univ. in St Louis.

Charles F. Simmons Jr, MD (1983) - Chair, Dept. of Pediatrics, Cedars-Sinai Medical Center, Los Angeles.

Mitchell J. Weiss, MD, PhD (1991) - Chair, Dept. of Hematology, St Jude Children’s Research Hospital, Memphis.

Christopher B. Wilson, MD (1975) - Chair, Dept. of Immunology, Univ. of Washington, Seattle. Previously, Interim Director, Global Health Discovery, Bill and Melinda Gates Foundation.

**Division Chiefs**

Kenneth Alexander, MD, PhD (1991) - Chief, Infectious Diseases, Chicago.

Richard G. Bachur, MD (1992) - Chief, Div. of Emergency Medicine, Boston Children’s Hospital, Harvard

Charles Berde, MD, PhD (1983) - Chief, Division of Pain Medicine, Boston Children’s Hospital, Harvard.

Melvin Berger, MD (1979) - Chief Emeritus, Allergy/Immunology, Case-Western Reserve. Currently, Senior Medical Director, Clinical Research and Development, CSL, Behring, LLC.

Judith E. Brill, MD (1980) - Chief, Pediatric Critical Care, Mattel Children’s Hospital, UCLA.

Jeffrey P. Burns, MD (1991) - Chief, Critical Care Medicine, Boston Children's Hospital, Harvard.

F. Sessions Cole, MD (1978) - Director of Pediatric Newborn Medicine, Vice-Chair, Dept of Pediatrics, Washington Univ. School of Medicine, St Louis.

Jonathan M. Davis, MD (1984) - Chief, Newborn Medicine, Tufts.

S. Jean Emans, MD (1973) - Chief Emerita, Adolescent Med, Boston Children's Hospital, Harvard Medical School.

James J. Filiano, MD (1985) - Chief, Pediatric Critical Care, Dartmouth.

Raif S. Geha, MD (1971) - Chief, Div. of Allergy and Immunology, Boston Children's Hospital, Harvard Medical School.

Stephen E. Gellis, MD (1976) - Chief, Division of Pediatric Dermatology, Boston Children's Hospital, Harvard Medical School.

Jeffrey S. Gerdes, MD (1980) - Chief, Section of Newborn Pediatrics, Associate Chair, Dept of Pediatrics, Pennsylvania Hospital.

Ira H. Gewolb, MD (1979) - Chief, Neonatology and Assoc Chair for Research, Michigan State
Catherine M. Gordon, MD (1994) Chief, Division of Adolescent Medicine, Boston Children's Hospital.Previously, Chief, Division of Adolescent Medicine, Brown and Director of Division of Adolescent and Transition Medicine, Cincinnati
Ian Gross, MD (1972) - Chief, Div. of Perinatal Medicine, Yale.
Jin S. Hahn, MD (1985) - Chief Emeritus, Div. of Neurology, Stanford
Jeffrey S. Hyams, MD (1978) - Head, Div. of Gastroenterology and Nutrition, Connecticut Children's Medical Center
Janice D. Key, MD (1983) - Director, Div. of Adolescent Medicine, Medical Univ. of South Carolina.
Barry Kosofsky, MD, PhD (1988) - Chief, Div. of Pediatric Neurology, Cornell.
Karl Kuban, MD (1978) - Chief, Pediatric Neurology, Boston Medical Center, Boston Univ.
Andrew L. Kung, MD, PhD (1996) - Chief, Division of Hematology, Oncology and Bone Marrow Transplantation, Columbia
Roger L. Ladda, MD (1972) - Chief, Human Genetics, Growth & Development, Penn State.
Edward Lawson, MD (1975) - Director, Neonatal-Perinatal Medicine, Johns Hopkins.
Donald Y.M. Leung, MD, PhD (1980) - Head, Div. of Pediatric Allergy and Immunology, National Jewish Medical and Research Center, Denver,
Michael Link, MD (1977) - Chief, Pediatric Hematology/Oncology, Stanford
Jeffrey M. Lipton, MD, PhD (1978) - Chief, Hematology-Oncology and Stem Cell Transplantation, Schneider Children's Hospital, Albert Einstein.
Samuel E. Lux IV, MD (1970) - Director of Intern Selection, Chief Emeritus, Div. of Hematology/Oncology and Vice-Chair for Research Emeritus, Boston Children's Hospital, Harvard Medical School.
William Maniscalco, MD (1975) - Chief, Div. of Neonatology, Rochester.
Peter E. Newburger, MD (1977) - Chief, Pediatric Hematology/Oncology, Univ. of Massachusetts
John A. Phillips III, MD (1975) - Director, Div. of Genetics and Genomic Medicine, Vanderbilt.
David A. Piccoli, MD (1983) - Chief, Gastroenterology, Hepatology and Nutrition. Children's Hospital of Philadelphia
David G. Poplack, MD (1972) - Chief, Pediatric Hematology/Oncology, Baylor.
Leonard A. Rappaport, MD (1980) - Chief Emeritus, Division of Developmental Medicine, Boston Children's Hospital, Harvard.
J. Routt Reigart II, MD (1970) - Director Emeritus, General Pediatrics, Medical Univ. of South Carolina.
Clement L. Ren, MD (1990) - Chief, Div. of Pediatric Pulmonology/Allergy, Rochester.
Mark E. Rothenberg, MD, PhD (1992) - Director, Div of Allergy/Immunology, Cincinnati.
Philip J. Saul, MD (1985) - Chief, Div. of Pediatric Cardiology, Medical Univ. of South Carolina.
Charles D. Scher, MD (1972) - Chief, Pediatric Hematology-Oncology, Tulane
Robert D. Sege, MD, PhD (1991) - Previously, Director, Div. of Ambulatory Pediatrics, Boston Medical Center, Boston Univ.
Yao Sun MD, PhD (1992), Chief, Division of Neonatology, University of California, San Francisco.
Victor C. Strasburger, MD (1978) - Chief, Div. of Adolescent Medicine, New Mexico
Stephen J. Teach, MD (1991) - Chief, Div. of Allergy and Immunology, Children's National Medical Center
Alan S. Wayne, MD (1988) - Chief, Division of Pediatric Hematology/Oncology, Univ of Southern California. Previously, Head, Hematologic Diseases Section, Pediatric Oncology Branch, National Cancer Institute, NIH.
Lawrence C. Wolfe, MD (1979) - Chief Emeritus, Div. of Pediatric Hematology/Oncology, Tufts. Currently at Schneider Children's Hospital, New Hyde Park, NY.
Peter F. Wright, MD (1970) - Chief Emeritus, Div. of Pediatric Infectious Diseases, Vanderbilt. Currently at Dartmouth-Hitchcock Medical Center.

Heads of Major Clinical Programs
Corrie T. M. Anderson, MD (1985) - Previously Clinical Program Director, Pain Management, Dept. of Anesthesia, Univ. of Washington, Seattle
Marc Baskin, MD (1986) - Chief, Short Stay Unit, Boston Children's Hospital, Harvard
Leslie V. Boyer-Hassen, MD (1988) - Medical Director, Arizona Poison Control Center, Medical Director, Toxicology Laboratory, Arizona
Lisa R. Diller, MD (1988) - CMO, Dana-Farber/Children's Hospital Cancer and Blood Disorders Center. Clinical Director of Pediatric Oncology, Dana-Farber Cancer Institute and Boston Children's Hospital, Harvard Medical School
Alan M. Leichtner, MD (1980) - Vice-Chair for Clinical Services and Associate Chief, Div. of Gastroenterology and Nutrition. Boston Children's Hospital, Harvard Medical School
Edgar K. Marcuse, MD (1970) - Associate Medical Director of Quality Improvement, Univ. of Washington, Seattle
Lynne M. Mofenson, MD (1980) - Chief, Pediatric, Adolescent and Maternal AIDS Branch. Center for Research for Mothers and Children, NICHD, NIH.
D. Holmes Morton, MD (1986) - Previously, Director, Clinic for Special Children, Strasburg, PA.
James Moses, MD MPH (2005) - Director of Quality and Patient Safety, Department of Pediatrics, Boston Medical Center
Jane Newburger, MD (1977) - Associate Chief for Academic Affairs, Dept. of Cardiology, Boston Children's Hospital, Harvard Medical School
Hans C. Oettgen, MD, PhD (1990) - Associate Chief, Div. of Allergy/Immunology, Boston Children's Hospital, Harvard Medical School.
Peter C. Phillips, MD (1981) - Director, Pediatric Neuro-oncology, Children's Hosp of Philadelphia
Thomas N. Robinson, MD (1991) - Director, Ctr for Healthy Weight, Div of General Pediatrics, Stanford
Jonathan J. "Jack" Rome, MD (1986) - Director, Cardiac Catheterization Laboratory, Associate Chief for Clinical Affairs, Children's Hospital of Philadelphia
BOSTON COMBINED RESIDENCY PROGRAM

Stephen J. Roth, MD (1989) - Director of Pediatric Cardiovascular Intensive Care, Stanford
Benjamin L. Schneider, MD (1989) - Director, Hematology Center, Children’s Hospital of Pittsburgh.
Anne M. Stack, MD (1991) - Vice Chair for Quality and Outcomes, Dept of Pediatrics, and Director of Clinical Operations, Div of Emergency Medicine, Boston Children’s Hospital, Harvard Medical School.
Elizabeth Woods, MD (1982) - Associate Chief, Div of Adolescent/Young Adult Medicine, Boston Children’s Hospital, Harvard Medical School.

Senior Researchers and Research Administrators

Jan L. Breslow, MD (1971) - Head, Lab of Biochemical Genetics and Metabolism, Rockefeller Univ. Past-President, American Heart Association.
James L. M. Ferrara, MD (1983) - Professor and Director, Hematologic Malignancies Translational Research Center, Tisch, School of Medicine, Mount Sinai.
Todd R. Golub, MD (1992) - Chief Scientific Officer and Director, Cancer Program, The Broad Institute of Harvard and MIT. Professor, Pediatrics, Boston Children’s Hospital and Dana-Farber Cancer Institute. Investigator, Howard Hughes Medical Institute.
Lisa Guay-Woodford, MD (1986) - Director, Center for Translational Science, Children’s National Medical Center, Washington, DC. Previously, Director, Division of Genetic and Translational Medicine and Vice Chair, Dept of Genetics, Univ. of Alabama.
Mark A. Israel, MD (1976) - Director, Norris Cotton Cancer Center, Dartmouth.
Julie R. Korenberg, MD, PhD (1982) - Director, Center for Integrated Neurosciences and Human Behavior at the Brain Institute, Utah. Previously, Director of Pediatric Research and Director of Neurogenetics, Medical Genetics Inst. Vice-Chair for Pediatrics Research, Cedars-Sinai, Los Angeles.
Stephan Ladisch, MD (1976) - Previously, Director, Ctr for Cancer and Transplantation Biology and Scientific Dir., Children’s Research Inst., Vice-Chair, Pediatrics, George Washington.
Roderick R. McInnes, MD, PhD (1978) - Director of Research, Lady Davis Institute of Medical Research, Jewish General Hospital, McGill. Previously, University Professor, Chair, Dept of Molecular Medicine and Scientific Dir., Inst. of Genetics, Hospital for Sick Children, Toronto.
Louis J. Muglia, MD, PhD (1991) - Co-Director, Perinatal Institute, Division of Neonatology and Director, Center for Prevention of Preterm Birth, Cincinnati Children’s. Previously, Vice Chair for Research Affairs in Pediatrics, Vanderbilt and Director, Div. of Pediatric Endocrinology and Diabetes, Washington University, St Louis.
Stuart H. Orkin, MD (1975) - Investigator, Howard Hughes Medical Institute, Boston Children's Hospital. Chair, Dept. of Pediatric Oncology, Dana-Farber Cancer Institute. Harvard Medical School.
Edward V. Prochownik, MD, PhD (1981) - Director of Oncology Research, Pittsburgh.
Bonnie W. Ramsey, MD (1979) - Director, Center for Clinical and Translational Research, Univ. of Washington.
Evan Y. Snyder, MD, PhD (1983) - Program Director, Stem Cells and Regeneration, Burnham Institute, La Jolla.
Anne E. Trontell, MD (1990) - Program Director, Center for Education & Research on Therapeutics. Agency for Healthcare Research and Quality, Dept. of Health and Human Services.
Linda Van Marter (1983) - Vice Chair for Research, Dept of Newborn Medicine, Brigham and Women's Hospital.
Paul H. Wise, MD (1981) - Director, Center for Policy, Outcomes and Prevention, Stanford.

Education Leaders

William A. "Jerry" Durbin, MD (1977) - Vice Chair and Residency Program Director, Dept. of Pediatrics, Univ. Massachusetts.
Alan M. Leichtner, MD, MSHPEd (1980) - Chief Medical Education Officer in the Dept of Medical Education at Boston Children’s Hospital.
Frederick H. Lovejoy Jr, MD (1969) - Vice Chair for Academic Affairs and Associate Physician-in-Chief. Previously, Residency Program Director, Boston Children's Hospital, Harvard Medical School.
Theodore C. Sectish, MD (1980) - Vice Chair for Education and Pediatric Residency Program Director, Boston Children's Hospital, Harvard Medical School. Executive Director, Federation of Pediatric Organizations. Previously, Residency Program Director, Stanford. Past-President of the Association of Pediatric Program Directors.
Emmett V. Schmidt, MD, PhD (1984) - Previously, Pediatric Residency Program Director, MassGeneral Hospital for Children, Harvard Medical School.
Edwin Zalneraitis, MD (1978) - Assistant Dean for Medical Education and Residency Program Director, Connecticut.

Biotech or Other Business Leaders

Spencer Borden IV, MD, MBA (1971) - Senior Managing Scientist, Exponent Consulting and Director of Employer Outcomes Research, Johnson & Johnson Health Care Systems, Inc. Previously, Senior Medical Consultant of Watson Wyatt Worldwide; Medical Director of Value Health Sciences, MedQual Systems and of Astera Life Insurance Company; and CEO, Integrity Consulting. Emeritus Chair, Depts of Pediatric Radiology, CHOP & MGH.
Kenneth M. Borow, MD (1977) - President and CEO Encomium Group, Inc. Previously, President and CEO, Covalent Group, Inc.
Michael J. Brownstein, MD, PhD (1974) - Co-Founder and Chairman of the Board, Alluvium Biosciences. Previously, Chief Scientific Officer, Exponential Biotherapies, Bethesda, MD. Director of Functional Genomics, J Craig Venter Institute, Rockville, MD, and Chief, Laboratory of Genetics, NIMH/NHGRI.
R. Alan B. Ezekowitz, MB ChB, DPhil (1988) - President, Co-Founder and CEO, Abide Therapeutics. Previously, Senior Vice President and Franchise Head, Immunology, Respiratory and...
Endocrine, Merck Research Laboratories. Chief, Dept of Pediatrics, Massachusetts General Hosp, Harvard Medical Sch.

Roslyn Feder, MD, PhD (1988) - Previously, Senior Vice President for External Development at Bristol-Myers Squibb.

William H. Harris, MD, PhD (1984) - Co-Founder, President and Chief Scientific Officer, MariCal, Inc., Portland, ME.

Allen J. Hinkle, MD (1979) - Executive Vice President and Medical Affairs Officer, MVP Health Care. Previously, Sr VP and Chief Medical Officer, Tufts Health Plan and Senior Medical Director and Vice President of Health Care Quality, Policy and Innovations at Blue Cross Blue Shield of Massachusetts.

David S. Hodes, MD (1972) - Previously, Medical Director, Roche Laboratories. Chief Emeritus, Pediatric Infectious Diseases, Mt Sinai

Anula Jayasuriya, MD, PhD, MBA (1992) - Life science private equity and venture capital investor with ATP Capital in San Francisco. Co-founder and Managing Director of the EvolveIndia Life Science Fund, based in Hyderabad. Previously a partner with Skyline Ventures, a principal with Techno Venture Management, and Vice President and Head of Corporate Development for Genomics Collaborative.

Cameron “Geo” McDonough, MD (1997) - Chief Executive Officer and President at Swedish Orphan Biovitrum AB. He also held several senior leadership positions at Genzyme Corporation and is currently its President of the organization in Europe.

Linda McKibben, MD, DrPh (1986) - Medical Officer, Food and Drug Administration. Principal, Linda McKibben Health Policy & Research Consulting. Previously, Vice President, The Lewin Group (Health Care and Human Services Consulting) and Senior Advisor on Health Services Research in the Office of the Director of the Division of Health Quality Promotion at the CDC’s National Center for Infectious Diseases.

Mark C. Rogers, MD (1972) - Accounts Manager of AtCor Medical Limited. Previously, CEO of Paramount Capital, Chairman and CEO of Bradmer Pharmaceuticals; and Chairman of Cardiome Pharma Corp; Founder, Officer or Director at Genta Inc., Adherex Technologies Inc., PolaRx Biopharmaceuticals Inc., and Aptamera; Sr VP and CTO, Perkin-Elmer Corp; President, Paramount Capital; Chairman of Anesthesiology and Critical Care, Johns Hopkins; Vice Chancellor of Health Systems, Duke Univ. Med. Ctr and CEO Duke Hospital.

James (Jim) Woody, MD, PhD (1971) - Venture Capital Partner, Latterell Venture Partners, Menlo Park, CA. Formerly President of Roche Bioscience in Palo Alto, California. Previously Chief Scientific Officer and Senior Vice President of R&D for Centocor.

Authors


Claire McCarthy, MD (1991) - Medical Communications Director, Boston Children’s Hospital and Senior Medical Editor for Harvard Health Publications. Author of two books (“How the Heart Beats” and “Everyone’s Children”) and frequent contributor to Newsweek and other magazines. Previously, General Pediatrician Director, Martha Eliot Health Center, Boston Children’s Hospital, Harvard.

Other Leaders

David M. Bell, MD (1980) - Sr Medical Officer, Maternal and Child Health Branch, Division of HIV/AIDS, National Center for Infectious Diseases, Centers for Disease Control and Prevention.

Jonathan E. Fielding, MD, MPH, MBA (1972) - Director of Public Health and Public Health Officer, Los Angeles County, and Professor of Public Health and Pediatrics, UCLA. Previously Vice President, Johnson & Johnson; and Massachusetts Commissioner of Public Health.

Jed Gorlin, MD (1985) - Medical Director, Memorial Blood Centers, Minneapolis.

Richard A. Insel, MD (1972) - Chief Scientific Officer, Juvenile Diabetes Research Foundation International. Previously, Director of the Center for Human Genetics and Molecular Pediatric Disease, Rochester.

Nabil M. Kronfol, MD (1972) - Professor, Health Services Administration, American University of Beirut; Senior Consultant, Health Systems and Health Manpower, President of the Lebanese Health Care Management Association, Beirut.

Jon E. Rohde, MD (1973) - International Public Health Consultant. Professor and Co-chair of the Board of the James P Grant School of Public Health, BRAC University, Dhaka, Bangladesh. Former Director of the EQUITY Project, South Africa and Emeritus Professor, University of Cape Town, SA.

Lauren A. Smith, MD (1996) - Director Emeritus and before that Medical Director of Massachusetts Department of Public Health.

David N. Sundwall, MD (1973) - Previously, Executive Director, Utah Department of Health; Vice President and Med Director, American Healthcare Systems; Administrator in the Health Resources and Services Administration; and Assistant Surgeon General, U.S. Public Health Service.
What Are We Looking For?
Graduates of medical schools in the United States and other countries are eligible to apply. We seek applicants who are intelligent, curious, creative, energetic, personable, and accomplished. We are very interested in having a diverse residency class and wish to attract exceptional applicants with wide-ranging interests and talents from all parts of the country and beyond. We are especially interested in those who will become leaders in one or more of the many areas of academic pediatrics: medical care, laboratory or clinical research, teaching, patient advocacy, public policy or global health.

PL-1 Applicants

Three Year Pediatric Residency Positions
We accept up to 36 PL-1 residents in the Categorical Track, including the various combined program described below, and up to 11 residents in the Urban Health and Advocacy Track. For PL-1 positions, the Boston Combined Residency Program in Pediatrics (BCRP) participates in the National Resident Matching Program (NRMP) through the Electronic Residency Application Service (ERAS). Applications will only be accepted through ERAS. Candidates may apply to either one or both tracks. We recommend applying to both. Each track has its own NRMP match number. The tracks are listed in the NRMP Directory as follows:

- Boston Combined Residency Program in Pediatrics
  - Peds/Boston Children's Hospital: #1259320C0
  - Peds-Urban Health Advocacy/Boston Medical Center: #1259320C1

Two Year Pediatric Residency Positions

- Special Alternative Pathways (“Fast-tracking”)
  We allow residents to enter both of the special alternative research pathways offered by the American Board of Pediatrics: the Accelerated Research Pathway and the Integrated Research Pathway.

- Combined Pediatrics-Medical Genetics
  The BCRP is one of the few residency programs in the country that offers combined training in pediatrics and medical genetics. The program is described in more detail here. We can accommodate up to two such positions a year. Applicants interested in this option should contact Dr Amy Roberts. The application is submitted as described above for PL-1 applicants. Please clarify in either your personal statement or by separate communication with Drs. Roberts and Lux that you are interested in the combined program. Those invited for a BCRP interview will have additional interviews with the clinical genetics faculty. The combined program has its own NRMP Match number listed in the NRMP Directory as: Pediatrics/Medical Genetics #7652444017. Applicants interested in the combined Pediatric-Medical Genetics program should also apply to the BCRP and make their interest in genetics clear in their personal statement.

- Child Neurology–Boston Children’s Hospital
  We offer 2-year positions for a subset of residents who match in the child neurology residencies at Boston Children’s Hospital or Boston Medical Center, but who first need to complete two years of pediatric residency training.

  Boston Children’s Hospital offers five positions in a combined BCRP Pediatrics-Child Neurology program (termed the “Categorical Child Neurology” program) in which the match is for 2 years of general pediatrics (beginning 2020) in the Categorical Track of the Boston Combined Residency Program in pediatrics, and three years of child neurology at Boston Children’s Hospital (beginning 2022). Applicants who match in this track are guaranteed a position in the BCRP. The NRMP Match number for the combined BCRP Pediatrics-BCH Child Neurology program is #1259185C0. Applicants to the categorical child neurology track should also apply to the Categorical Track of the BCRP.
BOSTON COMBINED RESIDENCY PROGRAM

(1259320C0) as this simplifies processing of the combined application. They should make their intentions clear in their personal statement.

- **Child Neurology–Boston Medical Center**
  
The child neurology program at Boston Medical Center offers one Categorical and one Advanced position. Applicants who match in the Categorical position are guaranteed a position in the UHAT track in the BCRP beginning in 2020 and will begin their child neurology training in 2022. Applicants who match in the Advanced position will also begin their child neurology training at BMC in 2022 but must match independently in pediatrics. The NRMP Match number for the Categorical track is 1257185C0. The number for the Advanced track is 1257185A0. Applicants interested in either of these Child Neurology programs should also apply to the UHAT track in the BCRP and make their interest in child neurology clear in their personal statement.

  Each of the various neurology tracks can be ranked independently in the match.

- **Neurodevelopmental Disabilities Preliminary Position**
  
The Boston Children’s Hospital NDD position is of the “Advanced” type, meaning a four-year NDD position, which begins in 2022. It is linked with a two-year preliminary position at Baystate Medical Center in Springfield, MA. The preliminary track for NDD trainees in the Baystate pediatrics residency is emphasizes the general pediatric care of children with complex neurodevelopmental disorders. The subsequent NDD training at Boston Children’s Hospital is a four-year program that combines adult neurology, child neurology, and specific neurodevelopmental disabilities training. It includes six months devoted to a scholarly project. Persons completing this training are eligible to sit the Board Certification examinations for Pediatrics, Neurology with Special Qualification in Child Neurology, and Neurodevelopmental Disabilities. The NDD training program is 1259186A0 (an advanced program); the preliminary pediatrics program at Baystate is 1286320P1.

  NDD applicants should contact Dr. David Urion directly. He leads both the NDD and Child Neurology training programs at Boston Children’s Hospital and can assist with what can be a somewhat confusing process of application.

- **Combined Pediatrics-Anesthesiology**
  
The BCRP was one of the first residency programs to offer combined training in Pediatrics and Anesthesiology. Residents begin their first year in pediatrics residency. The following year is the first year of anesthesiology training, followed by three years of integrated residency training in both pediatrics and anesthesiology. Throughout the three years of integrated training, while residents are doing core training in Pediatrics or Anesthesiology, they will be expected to attend conferences and participate in core clinical activities once a month in the other discipline to make the combined program fully integrated.

  Individuals ideally suited for this combined training will likely pursue careers at the interface between critical care, pediatrics, and anesthesiology. Examples of such careers include hospitalist medicine, pain and palliative care, out-of-operating room procedural and sedation services, and members of integrated subspecialty teams in pediatrics, critical care and anesthesiology. One of the combined residents, Ethan Sanford, has recently published an article in Anesthesia and Analgesia describing the program and the advantages of combined training.

  Applicants interested in Pediatrics-Anesthesiology should make their interest evident in their personal statement or by separate communication with Dr. Sam Lux. They should also notify Dr. Morana Lasic, who directs resident selection in Anesthesiology at the Brigham and Women’s Hospital. Applicants should apply to both Pediatric Anesthesiology in ERAS (1259726C0) and to the Categorical Pediatrics Track of the BCRP (1259320C0). This is very important as it is difficult for us to process and keep track of an application that is not in the Categorical Pediatrics database. We will forward a copy of the application to Dr. Lasic.

  It is helpful to Dr. Lasic and the anesthesiology application process if combined Pediatrics-Anesthesia program applicants also apply to Categorical Anesthesiology at the Brigham and Women’s Hospital, and you clearly must do so if Categorical Anesthesiology is your backup to the combined program. If you cannot also apply Categorical Anesthesiology for some reason, let us know and we will forward your combined program application to Dr. Lasic.

  **One Year Pediatric Residency Positions**

  We currently do not offer one-year preliminary positions in pediatrics.

  **Deadline**

  All PL-1 applications should be received by October 31, 2019. While we will consider applications received after that date, interviews are only occasionally granted to late applicants. Because of the volume (more than 1700 applications), we appreciate receiving applications early.

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Applicants should update their applications anytime they have significant new information (e.g., election to AOA or other honors, Step II scores, acceptance of a major paper, etc.). To ensure the information is noted, they should also email Dr. Sam Lux.

Applicants who accept an appointment elsewhere, or who for any reason wish to withdraw, are requested to notify Dr. Lux and the NRMP immediately.

Requirements

The application must include the following:

• ERAS Application form
• Dean's letter (MSPE) and transcript
• At least three letters of reference. At least one should be from someone who worked closely with you on a pediatrics rotation and who writes many letters for students, such as the student clerkship director, the director of inpatient services, a senior clinician, or one of the residency program directors. A pro forma “departmental letter” is not requested or desired unless the writer(s) know the applicant well.
• Applicants with an MD/PhD or other comparably extensive research experiences should also include a letter from their research supervisor.
• USLME scores (Step I required, Steps II and III if available)
• Personal statement. While we recognize that most applicants use a generic personal statement for all applications, we are much more interested in learning about you personally, than about why you chose pediatrics. We want to know where you grew up and things you are proud of, including accomplishments and interests outside of school, your passions, key research experiences, leadership experiences, creative or unusual things you've done, and what you are thinking of doing beyond your residency. Please attach an addendum to your generic personal statement discussing these things if they are not otherwise covered in your personal statement or the application.
• Good quality color photograph (ideally head and shoulders with a plain background).

We do not use board scores, grades or other metrics to filter applications. All applications are examined and the majority are read thoroughly and summarized in a 200 to 700 word paragraph that incorporates all the information we have. Decisions as to whether to interview or how highly to rank an applicant depend on the totality of the applicant's record from college onward, including extracurricular accomplishments, passions, personality, leadership and other factors as well as academic achievement.

International Applicants

We are very interested in training the very best international medical graduates and have a long record of doing so. All international medical graduates must apply through ERAS.

We receive about 500 international applications and interview about 15-20 applicants or about 1 in 25-30. For various reasons we can only accept a maximum of about 4 applicants requiring visas for internship.

Our two hospitals are able to sponsor both H1b and J1 visas, assuming there are no changes in US Immigration policies. An H1b visa requires that an applicant successfully complete USMLE Step 3. With rare exceptions, we require that the USMLE step 3 examination be completed by January 10, 2020 for us to obtain an H1b visa.

• To be seriously considered, international medical graduates must have an exceptional medical school record and have received the kinds of prizes, medals or awards that are given to the very top students. In most cases they will also have a strong record of accomplishment in research, or prior residency training in pediatrics, or both.
• International applicants should be ECFMG certified by October 31, 2019, our application deadline, and must be ECFMG certified by the completion of interviews on Jan 10, 2020 or they will not be considered by the selection committee. In rare cases an exception will be made for candidates who will graduate at the end of the calendar year and cannot apply for ECFMG certification until they have graduated. In these cases the applicant must obtain the approval of Dr Lux and must pass all ECFMG examinations by Jan 10th. This includes USMLE Step 1, the Step 2 Clinical Knowledge test, and the Step 2 Clinical Skills test.
• USMLE scores must be above 210 on the first attempt and ideally should be above 230.
Applicants must demonstrate excellent spoken and written English and the ability to work in a modern, high complexity medical center. This is best done by one or more rotations during medical school involving direct patient contact on a pediatric or internal medicine inpatient or consult service at a major teaching hospital in the United States or other English-speaking country. Applicants who lack such rotations will be considered if they have an exceptional academic record in medical school, have trained at other outstanding medical centers, have high USMLE scores, and have extensive research experience.

At least two of the letters of recommendation must be from physicians who are very familiar with the applicant’s clinical skills. Letters from physicians at the applicant's medical school or other training institution(s) who have trained in the US are especially useful. We rarely find "observerships" useful in evaluating applicants and suggest that applicants not have letters sent from those who observed them on such experiences unless the applicant worked very closely with the letter writer for a considerable period in caring for patients.

Couples Match

Applicants who are participating in the couples match and are invited to interview should email Dr. Lux the name of the Boston-area hospital(s) to which their spouse or significant other is interviewing.

Student Rotations

Children's Hospital

Students interested in doing rotations in pediatrics or pediatric subspecialties at Boston Children's Hospital should apply through the Registrar's Office at Harvard Medical School. Students can select up to 3 rotation month blocks and specify up to 15 course selections. The Registrar gives priority to Harvard Medical students, so outside students sometimes won’t know their elective until 4-6 weeks before it begins. If all their choices are full, the Registrar will check if there are any vacancies in the less popular electives.

Phone: (617) 432-1515
Email: exclerks@hms.harvard.edu

Boston Medical Center

Students interested in doing elective rotations at Boston Medical Center should contact the Registrar's office at Boston University School of Medicine. BUSM does not accept international medical students for elective rotations.

Phone: (617) 638-4160

Minority Recruitment

Boston Medical Center and Harvard Medical School have well-established Minority Recruitment Programs. These programs provide housing and financial assistance for travel.

Observerships

Neither Children’s Hospital nor Boston Medical Center encourage rotations where students function simply as observers. However, a some divisions and departments at Children’s Hospital offer observership opportunities.

Interviews

We do not read applications in any systematic order and we issue invitations for interviews when enough information is available for us to make a decision. In most cases this is not until after Dean’s Letters arrive on October 1st. This is almost always the case for institutions where clerkship grades are only revealed in the Dean’s Letter. However, we rarely finish reading all our applications before early November, so applicants should not expect to hear from us before then. Often, some applicants from a school will be invited to interview before others are. This is usually just a consequence of our reading some applications before others and should not be a cause for concern. We expect that all applicants will be notified about their interview on or before November 4th unless applications are incomplete at that time. As noted earlier, we review applications that are received after the October 31st deadline, but interviews are rarely granted to those who apply late unless there are extenuating circumstances.

Interview days for 2019-2020

- Friday, November 15th
- Friday, Nov 22nd
- Tuesday, Nov 26th
- Tuesday, Dec 3rd
- Friday, Dec 6th
- Friday, Dec 13th
- Tuesday, Dec 17th
- Friday, Jan 3rd
- Friday, Jan 10th

Approximately 32 candidates are invited for each interview day or about one of every 6 applicants.

MD/PhD Days

Candidates with MD/PhD degrees or PhD-like research experiences who plan research careers following residency are invited to participate in additional sessions.
on one of the Thursday afternoons before the December 13th and January 10th interview days. These sessions have been very popular in the past. They are designed to acquaint applicants with the research and fellowship opportunities in the Boston area and give them a chance to meet several scientists in their areas of interest. The applicants also have dinner with residents who plan to become physician-scientists. The MD/PhD days are entirely optional and are not part of the evaluation process.

Diversity Dinners
The BCRP embraces all forms of diversity, including but not limited to race, ethnicity, disability, gender identity, and sexual orientation. Applicants who identify as a member of one or more of these or similar groups are invited to an informal dinner the evening before their interview to familiarize them with special opportunities available within the BCRP and discuss any questions they may have about the program or the local community.

Diversity Second Look Day
The BCRP is committed to training a workforce that reflects the diversity of our patient population. As part of our intern recruitment program, we offer a funded second look day for traditionally underrepresented minority in medicine (URM) interviewees, including as defined by the AAMC. The goal of this program is to provide more familiarity and exposure to our program, our affiliated institutions, the city of Boston, and both BCRP residents and faculty from traditionally underrepresented backgrounds. This sponsored second-look day for URM interviewees is scheduled on Monday, January 27, 2020 this year, which is approximately two-weeks after our final interview day. The day’s program has included introductions from leadership at both institutions, a faculty panel, a candid discussion about race relations in Boston, lunch with residents, individual meetings with faculty, time to explore the city, and a Diversity Council Mixer with invited residents and faculty. The BCRP provides second-look attendees with lodging and meals for the visit and financial support to defray travel costs for this event.

The Interview Day
Orientation for the day begins with breakfast at 7:30 AM. Half the group starts at Children’s Hospital and half at Boston Medical Center. There is a single interview and a tour at each hospital by one of the BCRP residents. The interviews are low key and are meant to be an opportunity for applicants and faculty to get to know each other. An effort is made to choose interviewers who have something in common with the applicants, though this is not always possible. Applicants also attend one of the morning teaching conferences and participate in informal information and question-answer sessions. They are then transported to the other hospital, where they lunch with the residents and repeat the itinerary. The day officially ends at 4:30 PM; however, there is an optional Happy Hour from about 5:30 pm to 8 or 9 PM, hosted by the residents. This is a great chance to talk with the residents and is very highly recommended. Applicants tell us this is the most important part of the day. Some applicants may wish to extend their visit, or come a day early to allow more time for observation on the clinical services or to meet individuals in their specific areas of interest. We are happy to help make such arrangements, if desired.

Other Second Visits
Second visits can be arranged to attend rounds, meet with selected faculty or residents, and explore housing or other issues. We are happy to do this if the visit will assist you in evaluating the BCRP. Second visits are not expected and do not play a role in the selection process. If you are interested in a second visit contact Elayne Fournier, who will work with the chief residents and Dr Lux to arrange it.

The Selection Process
Separate selection committees evaluate candidates for each of the two tracks. Both committees include chief residents, as well as junior and senior faculty who are clinicians and researchers from a broad range of specialties. The selection process is entirely subjective. No formulas of boards scores, grades, or other criteria are used, either for selecting applicants for interviews or in preparing the rank order list. Similarly no attention is paid to the likelihood that a candidate will or will not rank the BCRP favorably. The committees are looking for candidates who are perceived to have a strong likelihood of success in an academic career involving advocacy, community service, public policy or international health (Urban Health and Advocacy Track) or success in an academic career focusing on clinical care and/or research in traditional subspecialty pediatrics, including academic or community general pediatrics (Categorical Track). There is considerable overlap in these two missions. Most applicants are suitable for both tracks and many candidates are highly ranked on both rank order lists. For this reason, and because the tracks are very similar from a resident’s point of view, most applicants should apply to both tracks.
PL-2 and PL-3 Applicants

Applications for PL-2 or PL-3 positions for 2020 will be accepted if positions are available. There are usually several open positions in the PL-2 year and occasionally one in the PL-3 year. Interested applicants should mail their CV and Personal Statement to Theodore Sectish, MD (Department of Pediatrics, Boston Children's Hospital, 300 Longwood Ave, Boston, MA 02115) as early as possible, as decisions about these positions are made between November and February. Competitive applicants will be asked to come to Boston for a day of interviews.

Med-Peds Applicants

The Harvard BWH/BCH Medicine-Pediatrics Residency is located at the Brigham and Women's Hospital and Boston Children's Hospital. Interviews occur in December and January and are independent of pediatric and internal medicine interviews at the two hospitals. More information about the program and how to submit an application is available.

How To Get Here

Transportation

Boston Children's Hospital and Boston Medical Center are accessible by car, bus or subway. For those who wish to take public transportation (the MBTA or just "The T"), the Blue line stops at the airport (shuttle buses run from each terminal to the T stop). The MBTA trip-planning site is particularly useful in choosing which subway trains and/or buses to take. Just enter "Logan Airport" and "Children's Hospital" or "Boston Medical Center" in the boxes where addresses are requested. For those who drive, parking garages are available at each institution.

Maps

- Children's Hospital Directions
- Children's Hospital Buildings
- Harvard Medical School & Longwood Medical Area Map 1 and Interactive Map 2
- Boston Medical Center

Where To Stay

- Hotels near Children's Hospital
  The Inn at Longwood next to the hospital (342 Longwood Ave, Boston) and The Marriott Courtyard (40 Webster St, Brookline) offer hospital-discounted rates.
- Inns and Bed & Breakfasts near Children's Hospital
- Hotels near Boston Medical Center

Resident Hosting Service

Many applicants also stay in the homes of friends. In addition, the residents offer a hosting service where they invite applicants to stay in their homes. Many applicants choose to do so as it saves money and offers an excellent opportunity to get to know the program better. The residents who are administering the hosting service will contact applicants about this after interview invitations are extended.

Contacts

Boston Combined Residency Program in Pediatrics
Email: bcrp@childrens.harvard.edu

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