

# Pediatric Bone and Mineral Metabolism Disorders Clinic

**Welcome to the Pediatric Bone and Mineral Metabolism Disorders Clinic at MassGeneral Hospital for Children (MGHfC). The clinic is a sub-specialty area of excellence within Pediatric Endocrinology and Pediatric Nephrology that provides clinical care for infants, children and young adults with disorders affecting bone health and mineral metabolism.**

## ABOUT THE PEDIATRIC BONE AND MINERAL METABOLISM DISORDERS CLINIC

We specialize in caring for infants, children, teenagers and young adults with disorders that affect bone health and mineral metabolism, or the body's ability to process different minerals.

By the time children become young adults, most of their bones have reached their adult size and shape. Disorders that affect children's bone health and the body's ability to process different minerals, like calcium or phosphorus, can also affect children's growth and development.

By treating bone and mineral metabolism disorders when children are young, they have a lower risk of having bone fractures or developing other long-term health problems, like osteoporosis (low bone density).

Our providers from Pediatric Endocrinology and Pediatric Nephrology work with specialists throughout MGHfC and Massachusetts General Hospital, including Pediatric Gastroenterology, Adolescent Medicine and Pediatric Orthopaedics, to create personalized care plans for patients of all ages, from infants to children to teenagers and young adults. Providers from Genetics, Pediatric Neurology and Physical Therapy provide consults as needed. We believe that families know their children best, so we involve the family in each step of the child's care plan as well.

At our clinic, we facilitate a seamless transition from pediatric to adult care for older teenagers to ensure ongoing care for their bone health as they become adults.



**Appointments**

888-644-3248

## STAFF

### Pediatric Endocrinology

Rose Marino, MD

Madhusmita Misra, MD, MPH

Deborah Mitchell, MD - *Clinic Co-Director*

### Pediatric Nephrology

Harald Jueppner, MD

Elahna Paul, MD, PhD

Amita Sharma, MD - *Clinic Co-Director*

### Pediatric Genetics

Paula Goldenberg, MD

### Pediatric Orthopaedics

Brian Grottkau, MD

### Pediatric Neurology

Ann Neumeyer, MD

## CONDITIONS WE TREAT

We accept referrals to treat the following conditions:

- Osteoporosis and osteopenia
- Vitamin D deficiency and other disorders of vitamin D metabolism
- Rickets and osteomalacia
- Disorders of calcium, phosphorus and parathyroid hormone metabolism
- Nephrocalcinosis and kidney stones
- Chronic kidney disease-associated mineral and bone disorders (CKD-MBD)
- Osteogenesis imperfecta (“brittle bone disease”) and other genetic bone disorders
- Low bone density and osteoporosis in conditions including:
  - Eating disorders, such as anorexia nervosa or bulimia
  - Female athlete triad
  - Inflammatory bowel disease (IBD) and celiac disease
  - Autism spectrum disorders
  - Chronic steroid use
  - Limited weight-bearing states

To schedule an appointment or to learn more, call the Access and New Appointment Center at **888-644-3248** or visit [www.massgeneralforchildren.org/bone-and-mineral](http://www.massgeneralforchildren.org/bone-and-mineral).



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## SERVICES WE OFFER

- Measurement of bone minerals, vitamin D levels, hormones involved in mineral metabolism and screening tests for other medical problems
- Bone density scans called dual-energy X-ray absorptiometry (DXA) scans that measure bone mineral density and bone mineral content using low-energy X-rays. DXA scans are reviewed by specialists with expertise in reading pediatric bone density test results.
- Genetic testing for disorders that affect bone and mineral metabolism
- Bisphosphonate infusions for low bone density
- Physical therapy

## CLINIC SCHEDULE

Call the Access and New Appointment Center at **888-644-3248** to schedule appointments at our Boston (pictured left) or Concord, Mass., locations:

- **MassGeneral Hospital for Children**  
55 Fruit Street, Suite 6C  
Boston, MA 02114
- **Emerson Hospital Center for Specialty Care**  
54 Baker Ave. Extension, Suite 302  
Concord, MA 01742

## Pediatric Endocrinology and Pediatric Nephrology

Mass General Hospital for Children  
55 Fruit Street, Suite 6C  
Boston, MA 02114

[www.massgeneralforchildren.org/bone-and-mineral](http://www.massgeneralforchildren.org/bone-and-mineral)

For more information please call

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