



Topics in Bone Health: Stronger Bones for Growing Kids

Friday, May 11, 2018

Ruth and Tristram Colket, Jr.
Translational Research
Building on the Raymond G.
Perelman Campus

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chop.cloud-cme.com

 **Children's Hospital
of Philadelphia**

COURSE OVERVIEW

This conference is intended for primary care providers, nurse practitioners, family medicine physicians and internists, dietitians, and other healthcare providers. The program aims to provide a necessary understanding of the impact of chronic illnesses on bone health and familiarize providers with therapeutic options, including nutritional interventions, physical therapy and pharmacological protocols. The learning format will be didactic lectures with question-and-answer sessions.

GENERAL INFORMATION

The conference will be held in the Ruth and Tristram Colket, Jr. Translational Research Building on the Raymond G. Perelman Campus at Children’s Hospital of Philadelphia.

COURSE OBJECTIVES

After attending this program, the participant should be able to:

- Review the principles of screening, treatment and monitoring of vitamin D deficiency
- Discuss the role of calcium and phosphorus in normal bone growth and development
- Discuss the important role of other vitamins and minerals beyond vitamin D and calcium, such as vitamin K, in normal bone growth and development
- Discuss causes for elevated serum calcium levels, including the role of parathyroid hormone
- Discuss emerging medical therapies for pediatric bone disease, including bisphosphonate therapy
- Describe the evaluation for suspected rickets
- Discuss the diagnosis and management of osteogenesis imperfecta

REGISTRATION FEES

The registration fee includes registration materials, continental breakfast, lunch, breaks and parking. As part of our green initiative, syllabus material will be available online.

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| Physicians..... | \$175 |
| Nurses and Other Healthcare Providers | \$125 |
| Trainees | \$25 |

To register, please visit chop.cloud-cme.com.

ACCME ACCREDITATION STATEMENT

Children's Hospital of Philadelphia is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

AMA CREDIT DESIGNATION STATEMENT

Children's Hospital of Philadelphia designates this live activity for a maximum of 5.75 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CONTINUING NURSING EDUCATION APPROVED PROVIDER STATEMENT

Children's Hospital of Philadelphia is an approved provider of continuing nursing education by the Pennsylvania State Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.

DIETITIAN ACCREDITATION STATEMENT

This activity has been submitted to the Commission on Dietetic Registration for 5.5 hours of continuing professional education units (CPEUs) for registered dietitians (RDs) and dietetic technicians, registered (DTRs). Application submitted and pending approval.

CANCELLATION AND REFUND POLICY

Children's Hospital of Philadelphia reserves the right to cancel or postpone any course due to any unforeseen circumstances. In the event of cancellation or postponement, the Hospital will refund registration fees, less a \$40 service fee, but is not responsible for any related costs, charges or expenses to participants, including cancellation charges assessed by airlines or travel agencies. In order to process refunds, cancellations must be received in writing by Friday, April 27, 2018. No refunds will be issued thereafter.

SERVICES FOR PEOPLE WITH DISABILITIES

If special arrangements are required for an individual with a disability to attend this meeting, please contact the Continuing Medical Education Department at 215-590-5263 or via email at CMEOFFICE@email.chop.edu at least two weeks in advance so that we may provide better service to you during the conference.

- 7:30 a.m. **Registration and Continental Breakfast**
- 7:50 a.m. **Welcome and Introduction**
Andrew Calabria, MD
- 8 a.m. **It's Not Only Calcium and Vitamin D: Effects of Non-vitamin D
Nutrients on Bone Health**
Jennifer Panganiban, MD
- 8:30 a.m. **Vitamin D: Bones and Beyond – Why You Need D to Spell
Healthy Bones but Also for So Much More**
Jeffrey Roizen, MD, PhD
- 9 a.m. **Break**
- 9:10 a.m. **The Ups and Downs of Calcium**
Rebecca Gordon, MD
- 9:40 a.m. **Pediatric Hyperparathyroidism in Children: The Same “Stones,
Bones, Groans and Moans” as Adults?**
Edna Mancilla, MD
- 10 a.m. **An Update on Infantile Hypercalcemia: Not So Idiopathic Anymore!**
Michael Levine, MD
- 10:20 p.m. **Questions & Answers**
- 10:30 a.m. **Break**
- 10:45 a.m. **Rickets: A Reemergence of an Old Disease?**
Edna Mancilla, MD
- 11:10 a.m. **When Rickets Isn't Rickets: Are You Thinking About
Hypophosphatasia?**
Michael Levine, MD
- 11:30 a.m. **May the Phos Be with You: Updates on an Oft Phorgotten Mineral**
Andrew Calabria, MD
- 11:55 a.m. **Questions & Answers**
- 12:05 p.m. **Lunch**
- 12:50 p.m. **Genetic Disorders of Connective Tissue: An Overview of Diagnosis
and Management**
Sanmati Cuddapah, MD

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1:25 p.m. **Bones, Stones and Ketones: The Effects of the Ketogenic Diet on Bone Health**
Colin Hawkes, MD

1:50 p.m. **Questions & Answers**

ROUNDTABLE DISCUSSIONS

(Each participant does both A and B for small-group discussions.)

2:10 p.m. **A. Calcium and Vitamin D Supplementation in Infants and Children**

Maria Hanna, MS, RD, LDN; Heather M. Bodenstab, PharmD

B. Review and Discussion of Challenging Cases Presented in the Pediatric Bone Clinic

Andrew Calabria, MD; Lisa Schwarcz, PT, DPT, PCS

2:50 p.m. **A. Review and Discussion of Challenging Cases Presented in the Pediatric Bone Clinic**

Andrew Calabria, MD; Lisa Schwarcz, PT, DPT, PCS

B. Calcium and Vitamin D Supplementation in Infants and Children

Maria Hanna, MS, RD, LDN; Heather M. Bodenstab, PharmD

3:30 p.m. **Adjourn**



Unless otherwise noted, faculty is from Children's Hospital of Philadelphia and/or the Perelman School of Medicine at the University of Pennsylvania.

COURSE DIRECTOR

Andrew Calabria, MD
*Clinical Director
Division of Endocrinology and Diabetes
Center for Bone Health
Assistant Professor of Pediatrics*

Michael Levine, MD
*Chief, Division of Endocrinology and Diabetes
Medical Director, Center for Bone Health
Professor, Pediatrics and Medicine*

COURSE FACULTY

Heather M. Bodenstab, PharmD
*Clinical Pharmacy Specialist
Harriet and Ronald Lassin Newborn/Infant
Intensive Care Unit
Center for Bone Health
Adjunct Professor
University of Pennsylvania School of Nursing*

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*Physical Therapist
Board Certified Pediatric Specialist*