

PART I: GENERAL INFORMATION

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Name: Catherine Mason Gordon, M.D., M.Sc.**Office Address:** Children's Hospital, Division of Adolescent Medicine
300 Longwood Avenue, Boston, MA 02115**Email:** catherine.gordon@childrens.harvard.edu**Phone:** (617) 355-7476**Fax:** (617) 730-0195**Place of Birth:** Chapel Hill, North Carolina**Education:**

1986	B.S. (<i>summa cum laude</i>)	North Carolina State University
1991	M.D. with Honors	University of North Carolina at Chapel Hill
1998	M.Sc., Clinical Investigation	Harvard Medical School

Postdoctoral Training:**Internship and Residency:**

1991-1992	Intern in Medicine, Pediatrics, Children's Hospital Boston
1992-1993	Junior Assistant Resident in Medicine, Children's Hospital Boston
1993-1994	Assistant Resident in Medicine, Children's Hospital Boston

Clinical and Research Fellowships:

1988-1989	Biomedical Research Fellowship - NIH training grant awarded through the UNC School of Medicine
1988-1990	Holderness Medical Fellowship - competitive grant for research with faculty member, University of North Carolina School of Medicine
1994-1998	Clinical Fellow in Pediatrics, Harvard Medical School, Adolescent Medicine/Endocrinology Fellowship, Children's Hospital, Boston
1996-1998	Clinical Investigator Training Program, Beth Israel Deaconess Medical Center, Harvard – MIT with Pfizer, Inc.
1997	Clinical Effectiveness Program, Harvard School of Public Health

Licensure and Certification:

1994-	Commonwealth of Massachusetts, Board of Registration in Medicine
1995	General Pediatrics, American Board of Pediatrics, Certificate #056019
1999-	Pediatric Endocrinology, Certificate #000816
2001-	Adolescent Medicine, Certificate #406
2001-	Clinical Densitometry, International Society for Clinical Densitometry

Academic Appointments:

1994-1998	Clinical Fellow in Pediatrics, Harvard Medical School, Boston, MA
1998-2001	Instructor in Pediatrics, Harvard Medical School
2001-2006	Assistant Professor in Pediatrics, Harvard Medical School
2006-	Associate Professor of Pediatrics, Harvard Medical School

Hospital Appointments:

1994-1998	Fellow, Divisions of Adolescent/Young Adult Medicine and Endocrinology
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- 1998- Assistant in Medicine, Divisions of Adolescent/Young Adult Medicine and Endocrinology, Children's Hospital Boston
- 2002- Consultant (Affiliate) in Newborn Medicine, Brigham & Women's Hospital

Other Professional Positions and Major Visiting Appointments:

- 2005 Denny Visiting Professor – Pediatrics, UNC-Chapel Hill School of Medicine

Hospital and Health Care Organization Clinical Responsibilities:

- 1998- Faculty, Divisions of Adolescent/Young Adult Medicine and Endocrinology Children's Hospital Boston
- 2002- Consultant, Newborn Medicine, Brigham and Women's Hospital

Major Administrative Responsibilities:

Hospital:

- 1996-1998 Administrative Coordinator for Medicine/Pediatrics Residency Program, Children's Hospital, Massachusetts General Hospital and Brigham and Women's Hospital, Boston, MA
- 1996- Co-Coordinator, Reproductive Endocrine Conference (monthly event), Divisions of Adolescent Medicine, Endocrinology and Gynecology, Children's Hospital Boston
- 2000- Director, Children's Hospital Bone Health Program and DXA Center

Major Committee Assignments:

Medical School:

- 1988-1991 Whitehead Medical Society (student government), UNC School of Medicine, Co-President (1990-1991)
- 1990-1991 Dean's Advisory Committee of the Medical Faculty, UNC School of Medicine
- 2003 - Pediatric Interest Group Mentor, Harvard Medical School
- 2006 - Member, Admissions Committee, Clinical Investigator Training Program (collaborative program – Harvard, MIT, Pfizer, and Merck)

Hospital:

- 1993-1994 Adolescent Medicine Curriculum Committee, Children's Hospital Boston
- 1994-1996 Clinical Practice Guideline Committee: Management of Diabetic Ketoacidosis, Children's Hospital
- 1994-1996 Resident-Fellow Committee, Children's Hospital, Co-Chair (1995-96)
- 1996-1998 Residency Training Curriculum Committee, Children's Hospital
- 1997-1998 Resident Advisors' Committee, Children's Hospital
- 1999- Clinical Practice Guideline Committee: Management of Eating Disorders, Children's Hospital
- 1999-2000 Co-Chair, Children's Hospital Skeletal Health Interdisciplinary Program, Subcommittee Chair, Osteopenia in Young Women with Amenorrhea
- 2003-06 Committee Member, Scientific Advisory Board for Clinical Research, Divisions of Gastroenterology, Endocrinology and Nephrology
- 2003- Selection Committee Member, Fred Lovejoy House Staff Research & Education Fund
- 2004- Chair, Scholarship Oversight Committee, Adolescent Medicine
- 2007- Member, Fellowship Research Committee, Dana Farber Cancer Institute

State:

- 1998-2003 Scientific Advisory Committee, Osteoporosis Awareness Program, Massachusetts Department of Public Health
Subcommittee Member, Targeting Children and Youth

- 1998- Advisory Committee, "Beat Osteoporosis: Nourish and Exercise Skeletons (BONES) Project," New England Medical Center, School of Nutrition Science and Policy, Tufts University, Medford, MA
- 2000- New England Calcium Coalition, Member

National:

- 1999- Scientific Reviewer, "Eating Disorders and Bone Density." Bibliography for NIH Osteoporosis and Related Bone Diseases - National Resource Center, National Osteoporosis Foundation
- 2004- Professional Practice Committee, American Society of Bone and Mineral Research
- 2005- Scientific Advisory Committee, Task Force for Crohn's and Colitis Foundation of America: Growth and Skeletal Health Recommendations for Research
- 2006-7 Chair, Task Force on Reporting of Bone Densitometry in Children, International Society for Clinical Densitometry Pediatric Position Development Conference, Montreal
- 2007 Co-Chair, Grants Committee for RFA on Bone and Growth Issues in Children with Inflammatory Bowel Disease, Crohn's and Colitis Foundation of America
- 2006 - Safety Officer, RO1 AR052322, "Effect of Potassium Bicarbonate on Bone and Muscle," (PI: B. Dawson-Hughes)

Professional Societies:

- 1991 - American Academy of Pediatrics, Member
- 2000 - Elected Fellow
Section on Endocrinology
Section on Adolescent Health
- 2006-07 – Invited Faculty, Endocrinology Section, PREP: The Course
- 2006 – Invited Faculty, PREP Audio: Vitamin D
- 1995 - Society for Adolescent Medicine, Member of National and New England Regional Chapters
- 2004 – Moderator, Institute on Bone Health, Annual Meeting, St Louis, MO
- 2005 - Research Committee, Society for Adolescent Medicine
- 1996 - The Endocrine Society, Member
- 2003 – Moderator, Session on Growth and Puberty, Annual Meeting, Philadelphia, PA
- 2007- Member, Task Force on Vitamin D and Bone Guidelines
- 1998 - North American Society for Pediatric and Adolescent Gynecology, Member
- 1999 - American Society for Bone and Mineral Research, Member
- 2003 – Abstract Reviewer, Annual Meeting, Minneapolis, MN
- 2003 – Co-Chair, Pediatric Bone Health Initiative, Public Health and Education
- 2004 – present Steering Committee, Pediatric Bone and Mineral Working Group
- 2004 – Abstract Reviewer, Annual Meeting, Seattle, WA
- 2005 – Abstract Reviewer, Annual Meeting, Nashville, TN
- 2006 - President, Pediatric Bone and Mineral Working Group
- 1999- Lawson Wilkins Pediatric Endocrine Society, Member
- 2003 – Moderator, Session on Pediatric Bone Health, Annual Meeting, Seattle, WA
- 2004 – Moderator, Session on Endocrinology and Diabetes, Annual Meeting, San Francisco, CA

- 2004 – Abstract Reviewer, Endocrinology Section, annual meeting of Pediatric Academic Societies
- 2006 – Co-Chair, Mini-Course Symposium “Vitamin D: More than Just Calcium and Bone,” San Francisco, CA

Editorial Boards and Activities as Reviewer:

Associate Editor, *Adolescent Healthcare: A Practical Guide*, 5th edition. Lippincott, Williams & Wilkins.

Lead Editor, Monograph - "The Menstrual Cycle and Adolescent Health," *Annals of The New York Academy of Sciences*, Blackwell Press.

Ad hoc reviewer:

Archives of Pediatrics and Adolescent Medicine

Bone

Chest

JAMA

JAMA Women's Health Information Center

Journal of Adolescent Health

Journal of the American College of Nutrition

Journal of Bone and Mineral Research

Journal of Clinical Densitometry

Journal of Clinical Endocrinology and Metabolism

Journal of Pediatrics

The Lancet

Pediatrics

Pediatric Blood and Cancer

Osteoporosis International

Grants Program, The Burroughs Wellcome Trust

Grants Program, Canadian Dairy Farmers Foundation

Grants Program, The Thrasher Foundation

Grants Program, Harvard Clinical Nutrition Research Center

NIH Special Emphasis Panel – Infant Psychobiology and Maternal Depression

External Reviewer for Promotion to Assistant Professor of Pediatrics, Karla Hauerperger, MD, Ohio State University, 2003

External Reviewer for Promotion to Associate Professor of Kinesiology, Moira Petit, PhD, University of Minnesota, 2007.

Awards and Honors:

- 1982-1986 John T. Caldwell Alumni Scholarship, full four-year academic scholarship, North Carolina State University
- 1986 Valedictorian, NCSU Class of 1986
- 1990 Alpha Omega Alpha Medical Honorary
- 1990 Heusner Pupil Award, UNC School of Medicine
- 1993 Von Meyer Award, Children's Hospital Boston
- 1994 Schliesman Memorial Traveling Fellowship - funded work with Navajo Community, Tuba City, Arizona
- 1994 Farley Fellowship Award, Children's Hospital Boston

1996	Housestaff Teaching Award, Children's Hospital, Boston - given annually by residents to one Clinical Fellow with "most outstanding teaching contributions"
1998	Fellow's Clinical Research Award, Society for Pediatric Research
2002	New Investigator Award, Society for Adolescent Medicine
2005	Society for Pediatric Research
2005	Presidential Early Career Award for Scientists and Engineers
2007	Women in Medicine Speaker, Children's Hospital Trust, Children's Hospital Boston
2007	ASBMR Early Career Excellence in Teaching Award

PART II: RESEARCH, TEACHING, AND CLINICAL CONTRIBUTIONS

A. Narrative Report of Research, Teaching, and Clinical Contributions

I am a pediatrician with training in both adolescent medicine and endocrinology. During fellowship, I developed an interest in reproductive endocrinology and bone health. I provide clinical care to both children and adolescents, with my practice divided between subspecialty endocrine care to children and adolescents, with an emphasis on pediatric patients with low bone density, fractures or reproductive endocrine issues, and both general and complex adolescent care. Since 2000, I co-developed and now direct the Children's Hospital Bone Health Program and DXA Center. In this role, I am responsible for the interpretation of DXA measurements of bone density that are performed at our hospital. I also care for complex patients from multiple specialties within the Hospital, as well as referrals from all over the country. I founded and organize the annual Children's Hospital "Bone Day," a scientific symposium that highlights research of relevance to pediatric bone health. I also participate in the teaching of students, house staff, and fellows in both the Adolescent and Endocrinology Programs, especially around metabolic bone disease and reproductive endocrinology, and have been invited to teach on a national and international level. Through invitations moderating sessions at national meetings, visiting professorships, and national committee work for the American Society for Bone and Mineral Research (ASBMR), I have assumed a leadership role around dissemination of knowledge in the area of pediatric bone health, a new field for pediatricians. Through invited reviews on pediatric bone health, I have tried to translate knowledge from recent research studies into articles that are useful for practicing pediatricians, endocrinologists, and adolescent medicine specialists. I have coordinated a monthly reproductive endocrine conference for the past decade, held for members of the Divisions of Endocrinology, Adolescent Medicine, and Pediatric Gynecology, and am also heavily involved in the teaching of trainees in the Adolescent Reproductive Endocrine Program. I have written textbook chapters and reviews, and have been invited to lead national "Meet the Professor" sessions on menstrual disorders in adolescents. I have co-authored patient information and Internet guides for both the Adolescent Program and Center for Young Women's Health. I am currently an Associate Editor for *Adolescent Health Care: A Practical Guide*, one of the most widely used textbooks in adolescent medicine.

The focus of my research is to investigate the effects of malnutrition on bone, using clinical models such as anorexia nervosa (AN), cystic fibrosis (CF), and inflammatory bowel disease. I am also examining the effects of nutritional factors (e.g., vitamin D intake) and exercise on the achievement of peak bone mass in adolescents. During my fellowship years, I received funding from the National Institutes of Health (NIH), including a Clinical Associate Physician Award (Mentored Patient-Oriented Research Career Development Award) to carry out clinical studies in patients with AN and CF, and *in vitro* studies exploring mechanisms behind the skeletal effects of dehydroepiandrosterone (DHEA). In 2004, I received independent funding from the NIH as an RO1 to continue studies examining bone density and skeletal strength in

young women with AN. This work was recently recognized by receipt of a Presidential Early Career Award for Scientists and Engineers for which the NICHD extended my funding.

Much of my research efforts have focused on bone loss in young women with AN. Results from cross-sectional analyses of baseline data from a cohort of 61 young women with AN indicated that serum concentrations of DHEA-sulfate are inversely correlated with bone resorption markers. Young women with AN have been shown to have increased bone resorption and my research group showed that bone resorption markers decrease after administration of oral DHEA. This work was recognized by The Society for Adolescent Medicine Young Investigator Award. We completed a double-blind, randomized controlled trial examining the effects of DHEA compared to estrogen/progestin replacement on bone turnover and bone density in patients with AN. Recruitment is now almost complete for a clinical trial examining the effects of combined DHEA + estrogen/progestin as a therapy to prevent losses in both bone mass and strength. We are also examining the effect of bed rest on bone turnover in anorexic young women. Other human models of relative immobilization suggest that a prolonged supine position significantly increases bone resorption, and the current standard of care for bradycardic young women with anorexia is to curtail activity. Another protocol examined predictors of stress fracture in active female athletes. Results of these studies may potentially change our understanding of the pathophysiology and the long-term management of young women with AN and amenorrheic female athletes. I also completed a large cross-sectional study in adolescents who presented for routine care to evaluate the prevalence of vitamin D deficiency in otherwise healthy young teenagers. A strikingly high prevalence of this problem was found. Our data have received national attention by the media. I am currently collaborating with general pediatricians within our hospital to determine if the prevalence of vitamin D deficiency is as high in young infants and toddlers.

B. Funding Information:

1997-1998	National Osteoporosis Foundation/Mazess Research Grant Use of DHEA to Prevent Osteoporosis in Patients with Eating Disorders (Gordon)
1998-2004	Clinical Associate Physician Award (K23/CAP), NIH - MO1 RR2172 Use of DHEA to Prevent Bone Loss in Young Women with Anorexia Nervosa and Young Adults with Cystic Fibrosis (Gordon/Mandell)
1998-2004	Department of Defense Grant, Effects of DHEA on Bone in Young Adults, (LeBoff; subcontract to Gordon/Children's Hospital)
1998-1999	Research Faculty Council Grant, Children's Hospital Boston Effect of DHEA on Bone Mass in Young Women with Anorexia Nervosa (Gordon)
2001-2003	Charles H. Hood Foundation, Vitamin D Screening in Adolescents (Gordon)
2001-2003	Mary A. and John M. McCarthy Family Foundation Award, Vitamin D Screening in Healthy Adolescents (Gordon)
2001-2003	Clinical Associate Physician Award (K23/CAP), NIH – MO1 RR2172 Use of DHEA to Prevent Bone Loss in Patients with Cystic Fibrosis (Gordon/Mandell)
2001-2005	Elizabeth Glaser Pediatric Network Double Blinded Trial of Alendronate in Children with Steroid-Induced Osteoporosis (Gordon)
2002-2003	Mary A. and John M. McCarthy Foundation Predictors of Stress Fracture in Female Adolescent Athletes (Gordon)
2003-2004	Mary A. and John M. McCarthy Foundation Ultrasound Screening in Adolescents (Gordon)
2003-2006	Massachusetts Vitamin Litigation Grant, Predictors of Stress Fracture in Adolescent Girls (Loud/Gordon)

2004-2010	NIH/NICHD 1 RO1 HDO43869-01, Effects of Adrenal and Gonadal Hormone Replacement in Young Women with Anorexia Nervosa (Gordon)
2005-2006	Mary A. and John M. McCarthy Foundation Effect of Bed Rest on Bone Turnover and Cardiac Function in Anorexia Nervosa (Gordon)
2006-2007	Mary A. and John M. McCarthy Foundation Prevalence of Vitamin D Deficiency and Rickets among Healthy Infants and Toddlers (Gordon).
2006-2007	Allen Foundation Vitamin D Deficiency and Rickets among Healthy Infants and Toddlers (Gordon)
2007-2009	Progeria Research Foundation Clinical Trial of Farnesyltransferase in Children with Progeria (Gordon/Kiernan)

C. Report of Current Research Activities

I am currently participating in the following research studies:

- *Use of Adrenal and Gonadal Hormone Replacement to Prevent Osteoporosis in Anorexia Nervosa:*
A randomized, double-blind placebo-controlled trial examining the effect of oral DHEA and estrogen/progestin replacement on bone turnover, density and strength in patients with anorexia nervosa. The enrollment of subjects is ongoing, and follow-up assessments are underway.
- *Use of DHEA to Prevent Bone Loss in Cystic Fibrosis:*
A randomized, double blind, placebo-controlled trial (pilot study) examining the effect of oral DHEA on bone turnover and body composition in young men and women with cystic fibrosis was recently completed. Final data analysis is being completed. One article was recently published and another is in preparation.
- *Randomized Trial of Alendronate in Children with Steroid-Induced Osteoporosis:*
Dr. Gordon is the site investigator for this multi-center trial testing the effects of alendronate on BMD in children and adolescents receiving glucocorticoid therapy for inflammatory diseases. Follow-up evaluations are being completed. An initial manuscript was published and another is in preparation.
- *Prevalence of Rickets Among Healthy Infants and Toddlers*
The prevalence of both subclinical vitamin D deficiency and rickets is being determined in a cross-sectional sample of infants and toddlers who present to Children's Hospital Boston for primary care. The efficacy of different treatment regimens is also being evaluated. An abstract was submitted for the 2007 Pediatric Academic Societies annual meeting.
- *Effect of Bed Rest on Bone Turnover and Cardiac Function in Adolescents with Anorexia Nervosa:* This protocol addresses the effect of immobilization via bed rest on bone turnover in young women with anorexia nervosa. Dr. Gordon is mentoring an Adolescent Medicine fellow (HMS Clinical Scholars and NIH Loan Repayment Program Program recipient). The enrollment of subjects of ongoing.
- *Effect of Calcitonin on Bone Density in Inflammatory Bowel Disease:* This double blind, placebo-controlled trial is examining the effects of nasal calcitonin on bone density in children with Crohn's disease. Dr. Gordon is co-mentoring a Gastroenterology Fellow. One manuscript was recently published in *Pediatrics*. Another is in preparation.

D. Report of Teaching

1. Local Contributions

a. *Medical School Courses:*

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|-----------|---------------------------------|
| 1994-1998 | HMS Patient-Doctor II |
| | - Preceptor |
| | - 2-3 medical students per year |

- 1 hour of preparation and 6 hours of contact
- b. Graduate Teaching: Harvard School of Public Health*
- 2002, 2005 Principles of Nutrition Course
 - Lecturer, Eating Disorders in Adolescents
 - 30 public health students
 - 2 hours of preparation and 2 hours of contact
- c. Local Invited Teaching Presentations: Harvard Medical School Hospitals*
- 1994 Department of Medicine
 - Teaching Resident
 - Section leader for daily medical student conference
 - 20 medical students during one-month rotation
 - 10 hours of preparation and ~8 hours contact time/week
- 1995- Division of Adolescent Medicine, general adolescent medicine curriculum
 - Lecturer on Menstrual Problems, Abnormal Thyroid Function, Polycystic Ovary Syndrome, Eating Disorders
 - 2 medical students, 3 residents, 2 fellows/lecture
 - 2 hours of preparation and 1 hour contact time 3-4 times per year
- 1995- Adolescent/Young Adult Medical Practice
 - Preceptor, supervising in ambulatory clinic
 - 2 medical students, 2-4 residents, 2 fellows
 - 1 session per week, 200 hours/year
- 1995-2001 Joint Program of Neonatology Core Lecture Series, Basic Science Curriculum, Children's Hospital Boston
 - Lecturer, Neonatal Thyroid Function and Disease
 - 12-15 Neonatology Fellows
 - 4 hours of preparation and 1 hour of contact time
- 1995 Division of Endocrinology, Children's Hospital Boston
 - Lecturer, Endocrinologic Disturbances in Anorexia Nervosa
 - Children's Hospital Neuroendocrine Conference
 - 25 participants
 - 6 hours of preparation and 1 hour of contact time
- 1995 Longwood Area Endocrine Interhospital Rounds, Boston, MA
 - Lecturer, Endocrinologic Replacement in Pediatric/Adolescent Brain Tumor Patients
- 1996 Division of Endocrinology, Children's Hospital Boston
 - Lecturer, Children's Hospital Neuroendocrine Conference
 - Hypothalamic Amenorrhea
 - 25 participants
 - 6 hours of preparation and 1 hour of contact time
- 1996 Division of Endocrinology, Children's Hospital Boston
 - Lecturer, Children's Hospital Parent Support Group, Diabetes Program
 - Management of the Adolescent with Diabetes Mellitus
 - 25 participants
 - 3 hours of preparation with 1 hour of contact time
- 1996 Division of Endocrinology, Children's Hospital Boston
 - Lecturer, Endocrinology Division Conference
 - Osteopenia in Patients with Eating Disorders
 - 25 participants
 - 6 hours of preparation with 1 hour of contact time
- 1997 Division of Endocrinology, Children's Hospital Boston
 - Lecturer, Effect of Growth Hormone on Bone

- Children's Hospital Neuroendocrine Conference
- 25 participants
- 6 hours of preparation and 1 hour of contact time
- 1998 Division of Adolescent/Young Adult Medicine
- Case Presentation, Reproductive Endocrine Conference, Children's Hospital Boston, December 10, 1998
- A Case of Delayed Puberty in an Adolescent Boy
- 25 participants
- 2 hours of preparation with 1-hour of contact time
- 1999 Boston Combined Pediatric Residency Program Retreat
- Leader, How to Carry Out Clinical Research as a Resident
- 30 participants (pediatric residents)
- 2 hours of preparation, 1 hour of contact time
- 1999 Division of Adolescent/Young Adult Medicine
- Lecturer, Faculty/Fellow Conference
- Management of Diabetes Mellitus in Adolescents
- 2 medical students, 2-4 residents, 2-4 fellows, 6 faculty members
- 3 hours of preparation, 1 hour of contact time
- 1999 Division of Nutrition and Metabolic Support, Brigham & Women's Hospital
- Lecturer, Weekly Division Conference
- Eating Disorders and Osteoporosis
- 25 participants
- 5 hours of preparation, 1 hour of contact time
- 1999 Division of Endocrinology, Beth Israel Deaconess Hospital, Boston
- Lecturer, Interhospital Endocrine Fellows' Teaching Conference
- Menstrual Disorders in Adolescents
- 25 participants
- 5 hours of preparation, 1 hour of contact time
- 1999 Harvard Medical School
- A PET Study of Appetitive Function
- Lecturer, Boston Researchers on Eating Disorders (BRED)
- 25 participants
- 5 hours of preparation, 1 hour of contact time
- 2000 Division of Adolescent/Young Adult Medicine
- Bone Density Issues in Anorexia Nervosa
- Lecturer, MCHB Leadership Education in Adolescent Health Training Program, Monthly Core Conference
- 50 participants
- 3 hours of preparation, 1 hour of contact time
- 2000 Division of Endocrinology, Children's Hospital
- Polycystic Ovary Syndrome
- Lecturer, Endocrine Division Weekly Conference
- 25 participants
- 6 hours of preparation, 1 hour of contact time
- 2000 Children's Hospital Department of Medicine
- DHEA as an Anabolic and Antiosteolytic Agent for Bone
- Lecturer, General Clinical Research Center-sponsored Bone Day
- 100 participants
- 5 hours of preparation, 1 hour of contact time
- 2001 Children's Hospital Division of Sports Medicine
- The Amenorrheic Athlete
- Lecturer, Morning Conference

- 12 participants
- 3 hours of preparation, 1 hour of contact time
- 2001 Pediatric Bone Marrow Transplant Rounds, Dana Farber Cancer Institute, Boston, MA
- Lecturer, Bone Health Considerations in Children and Adolescents
- 3 hours of preparation, 1 hour of contact time
- 2002 Harvard Medical School Nutrition Symposium, Boston, MA
- Lecturer, Effect of Nutrition on Bone Accretion during Childhood and Adolescence
- 200 participants (physicians, nurses, allied health professionals, students)
- 5 hours of preparation, 1 hour of contact time
- 2002 Children's Hospital Pulmonary Division Conference
- Lecturer, Bone Loss in Patients with Cystic Fibrosis
- 3 hours of preparation, 1 hour of contact time
- 2003 Children's Hospital Gastroenterology/Nutrition Division Conference
- Lecturer, Malnutrition and Bone Loss in Children
- 3 hours of preparation, 1 hour of contact time
- 2003 Children's Hospital Psychiatry Department Inpatient Rounds
- Lecturer, Bone Loss in Adolescents with Anorexia Nervosa
- 2 hours of preparation, 1 hour of contact time
- 2004 Restrictive Eating Disorders Conference, Children's Hospital Boston Medical Patient Services and the Division of Adolescent/Young Adult Medicine
- Lecturer, Permanent Side Effects of Eating Disorders
- 100 participants (physicians, nurses, allied health professionals)
- 3 hours of preparation, 1 hour of contact time
- 2004 Children's Hospital Rheumatology Division Conference
- Lecturer, Evaluation of Low Bone Mass in Children and Adolescents
- 40 participants
- 2 hours of preparation, 1 hour of contact time
- 2004 Children's Hospital Endocrine Division Conference
- Lecturer, Evaluation of Low Bone Mass in Children and Adolescents
- 25 participants
- 1 hour of preparation, 1 hour of contact time
- 2004 Children's Hospital Renal Division Conference
- Lecturer, Evaluation of Low Bone Mass in Children and Adolescents
- 25 participants
- 1 hour of preparation, 1 hour of contact time
- 2004 Children's Hospital General Clinical Research Center Nursing Conference
- Lecturer, Evaluation of Low Bone Mass in Children and Adolescents
- 20 participants
- 2 hours of preparation, 1 hour of contact time
- 2004 Children's Hospital League (quarterly meeting)
- Lecturer, Osteoporosis in Children
- 50 participants
- 2 hours of preparation, 1 hour of contact time

- 2004 Pediatric Grand Rounds, Cambridge Hospital, Cambridge, MA
- Grand Rounds Speaker, Osteoporosis in Children
 - 75 participants
 - 2 hours of preparation, 1 hour of contact time
- 2004 Children's Hospital Boston Sports Medicine Research Conference
- Lecturer, Adolescent Bone Health
 - 12 participants
 - 1 hour of preparation, 1 hour of contact time
- 2005 Children's Hospital Adolescent/Young Adult Division
- Lecturer, Bone Loss in Adolescents with Anorexia Nervosa
 - 50 participants
 - 2 hours of preparation, 1 hour of contact time
- 2005 Children's Hospital Endocrine Division
- Lecturer, Evaluation of Bone Mass in Children's Hospital, Boston
 - 25 participants
 - 1 hour of preparation, 1 hour of contact time
- 2006 Children's Hospital Pulmonary Division
- Lecturer, Evaluation of Bone Mass in Children's Hospital, Boston
 - 25 participants
 - 1 hour of preparation, 1 hour of contact time
- 2006 Pediatric Grand Rounds, UMass Medical School
- Grand Rounds speaker, Bone Loss in Adolescents with Anorexia Nervosa
 - 75 participants
 - 2 hours of preparation, 1 hour of contact time
- 2006 Children's Hospital Reproductive Endocrine Conference
- Menstrual Disorders in Adolescents
 - 25 participants
 - 2 hours of preparation, 1 hour of contact time
- 2006 Children's Hospital Endocrine Division
- Lecturer, Endocrine Emergencies Core Series, Rickets
 - 25 participants
 - 3 hours of preparation, 1 hour of contact time
- 2006 Division of Sports Medicine, Children's Hospital Boston
- Lecturer, Bone Health in Girls with Anorexia Nervosa
 - 15 participants (physicians, nurses, students)
 - 1 hour or preparation, 1 hour of contact time
- 2007 Children's Hospital Rheumatology Division
- Evaluation of Low Bone Mass in Children's Hospital, Boston
 - 15 participants
 - 1 hour of preparation, 1 hour of contact time
- 2007 Children's Hospital/Dana Farber Pediatric Oncology Rounds
- Pediatric Health Care
 - 30 participants
 - 1 hour of preparation, 1 hour of contact time
- 2007 Children's Hospital Endocrine Division
- Lecturer, Endocrine Emergencies Core Series:
 - "Rickets," "Evaluation of Low Bone Mass in Children," and "Menstrual Disorders"
 - 25 participants
 - 3 hours of preparation, 1 hour of contact time

d. Continuing Medical Education Courses:

- 1996 Pediatric & Adolescent Gynecology HMS Postgraduate Course
 - Leader, Round Table on Precocious Puberty
 - 10 participants
 - 2 hours of preparation, 1 hour of contact time
- 1996 Pediatric & Adolescent Gynecology HMS Postgraduate Course
 - Leader, workshop on Delayed Puberty
 - 60 participants
 - 3 hours of preparation, 1 hour of contact time
- 1997 Adolescent Medicine HMS Postgraduate Course
 - Leader or Co-Leader, workshop on Delayed Puberty
 - 75 participants (physicians, nurses, allied health professionals)
 - 3 hours of preparation, 1-hour contact time/year
- 1997 Pediatric & Adolescent Gynecology HMS Postgraduate Course
 - Leader or Co-leader, workshop on Delayed Puberty
 - 60 participants (physicians, nurses, allied health professionals)
 - 4 hours of preparation and 2 hours of contact time
- 1998 Adolescent Medicine HMS Postgraduate Course
 - Leader, workshop on Menstrual Disorders
 - 60 participants (physicians, nurses, allied health professionals)
 - 3 hours of preparation, 1-hour contact time/year
- 1998 Adolescent Medicine HMS Postgraduate Course
 - Leader, Round Table on Menstrual Disorders
 - 12 participants (physicians, nurses, allied health professionals)
 - 2 hours of preparation, 1 hour of contact time
- 1999 Pediatric and Adolescent Gynecology HMS Postgraduate Course
 - Leader, Workshop on Delayed Puberty
 - 60 participants (physicians, nurses, allied health professionals)
 - 2 hours of preparation, 1.5 hours of contact time
- 1999 Adolescent Medicine HMS postgraduate Course
 - Leader, Round Table on Osteoporosis
 - 12 participants (physicians, nurses, allied health professionals)
 - 2 hours of preparation, 1 hour of contact time
- 1999 Adolescent Medicine HMS Postgraduate Course
 - Leader, Workshop on Delayed Puberty
 - 60 participants (physicians, nurses, allied health professionals)
 - 2 hours of preparation, 1.5 hours of contact time
- 2000 Adolescent Medicine HMS Postgraduate Course, Boston, MA
 - Leader, Workshop on Delayed Puberty
 - 60 participants (physicians, nurses, allied health professionals)
 - 2 hours of preparation, 1.5 hours of contact time
- 2000 Pediatric and Adolescent Gynecology HMS Postgraduate Course
 - Leader, Round Table on Osteoporosis
 - 12 participants (physicians, nurses, allied health professionals)
 - 2 hours of preparation, 1 hour of contact time
- 2000 Adolescent Medicine HMS Postgraduate Course, Boston, MA
 - Leader, Round Table on Osteoporosis
 - 12 participants (physicians, nurses, allied health professionals)
 - 2 hours of preparation, 1 hour of contact time
- 2000 Adolescent Medicine HMS Postgraduate Course, Boston, MA
 - Leader, Workshop on Delayed Puberty
 - 60 participants (physicians, nurses, allied health professionals)
 - 2 hours of preparation, 1.5 hours of contact time
- 2001 Adolescent Medicine HMS Postgraduate Course, Boston, MA

- Leader, Round Table on Osteoporosis
- 12 participants (physicians, nurses, allied health professionals)
- 2 hours of preparation, 1 hour of contact time
- 2001 Adolescent Medicine HMS Postgraduate Course, Boston, MA
- Lecturer, Osteoporosis in Teens: When Should I Order a DXA Scan?
- 100 participants (physicians, nurses, allied health professionals)
- 3 hours of preparation, 1 hour of contact time
- 2004 Adolescent Health Care Boston, Postgraduate Course, Boston, MA
- Leader, Workshop Adolescent Growth and Pubertal Development: Differentiating Normal from Abnormal
- 100 participants (physicians, nurses, allied health professionals)
- 3 hours of preparation, 1 hour of contact time
- 2004 Pediatric and Adolescent Gynecology HMS Postgraduate Course, Boston, MA
- Leader, Workshop on Delayed Puberty
- 60 participants (physicians, nurses, allied health professionals)
- 2 hours of preparation, 1.5 hours of contact time
- Lecturer, Adolescent Bone Health
- 250 participants (physicians, nurses, allied health professionals)
- 3 hours of preparation, 1 hour of contact time
- 2005 Adolescent Medicine HMS Postgraduate Course, Boston, MA
- Leader, Workshop on Delayed Puberty
- 60 participants
- 2 hours of preparation, 1 hour of contact time
- Lecturer, Update on Bone Health: What Tests Should I Order?
- 100 participants (physicians, nurses, allied health professionals)
- 2 hours of preparation, 1 hour of contact time
- 2006 Pediatric and Adolescent Gynecology Postgraduate HMS Course, Boston, MA
- Leader, Workshop on Bone Health
- 60 participants (physicians, nurses, allied health professionals)
- 2 hours of preparation, 1.5 hours of contact time
- 2007 Adolescent Health Care Conference, Boston, MA
- Leader, Workshop on Bone Health
- 60 participants (physicians, nurses, allied health professionals)
- 1 hour of preparation, 1.5 hours of contact time
- 2007 Pediatric and Adolescent Gynecology Postgraduate HMS Course, Boston, MA
- Leader, Workshop on Bone Health
- 40 participants (physicians, nurses, allied health professionals)
- 1 hours of preparation, 1.5 hours of contact time

e. Advisory and Supervisory Responsibilities:

- 2000 - present Supervisory Attending, Reproductive Endocrine Program
 - Supervise one Endocrine or Adolescent Fellow/session, once - twice monthly
- 2004 – present Supervisory Attending, Endocrine Program
 - Supervise one Sports Medicine Fellow/session
- 2005 – present Supervisory Attending, Endocrine Program
 - Supervise one Endocrine Fellow/session
- 1996-98, 2004- Resident Advisor
 - Advise one resident/year per class (3/year)

- Department of Medicine

f. *Teaching Leadership Roles*

- 1996 - present Faculty Organizer/Supervisor, Reproductive Endocrine Conference
- Supervise fellow in case presentation and co-organize conference
 - Divisions of Endocrinology, Adolescent Medicine and Gynecology

g. *Name of Advisees or Trainees:*

Past:

- 1998-01 Maria E. Trent, MD, MPH, Assistant Professor of Pediatrics, Division of Adolescent Medicine, The Johns Hopkins Hospital
- 2001-04 Keith J. Loud, MD, MSc, Assistant Professor of Pediatrics, Division of Adolescent Medicine and Sports Medicine, Univ. of Akron
- 2002-04 Nava Stoffman, MD, Director of Adolescent Medicine, Edmond and Lily Safra Children's Hospital, Sheba Medical Center, Tel Hashomer, Israel
- 2003-05 Amy Fleischman, MD, Instructor in Pediatrics, Division of Endocrinology, Children's Hospital Boston
- 2003-05 Andrea Pettinato, MD, Instructor in Pediatrics, Division of Adolescent Medicine, Children's Hospital Boston

Present:

- 2004- Amy DiVasta, MD, Division of Adolescent Medicine, Children's Hospital Boston
- 2004- Helen Pappa, MD, MPH, Division of Gastroenterology, Children's Hospital Boston
- 2006- Avery LeBoff Williams, Research Advisor, Rickets among Healthy Infants and Toddlers, Biology Undergraduate Programs, Harvard University
- 2006- Michael Stone, Senior Project Advisor, Vitamin D Deficiency among Middle School-aged Children, Department of Communications and Media Studies, Undergraduate Program, Tufts University, Medford, MA
- 2007- Hiu-Fai Fong, Thesis Advisor, Hepatic Dysfunction in Young Women with Anorexia Nervosa, Harvard-MIT Health Sciences and Technology Program

2. Regional, National and International Contributions

a. *Invited Presentations*

- 1993 – 97 Clara Barton Camp for Girls with Diabetes, North Oxford, MA
- Camp Physician
 - 1-2 week session includes small and large group teaching of basic diabetes care, 1-2 weeks/year of contact time
 - 80 children with diabetes mellitus
- 1996 Primary hypothyroidism presenting as vaginal bleeding in a premenarchal girl. Platform Presentation, Annual Meeting, North American Society of Adolescent and Pediatric Gynecology, San Diego, California.
- 1997 Polycystic Ovary Syndrome in Adolescents
Co-Leader, Workshop, Annual Meeting, Society for Adolescent Medicine, San Francisco, CA

- 1997 Multiple Endocrine Neoplasia Type 2B
Co-Leader, "Meet the Professor" Session, Annual Meeting, The Endocrine Society, Minneapolis, MN
- 1998 The Female Athlete Triad: Managing Amenorrhea, Osteopenia and Disordered Eating
Co-leader, Workshop, North American Society for Pediatric and Adolescent Gynecology, West Palm Beach, FL
- 1998 Is Osteoporosis a Pediatric Issue?
Osteoporosis Awareness Week Speaker, Osteoporosis Awareness Program, Massachusetts Department of Public Health, Boston, MA
- 1998 Amenorrhea
Speaker, Women's Health Curriculum: Harvard Medicine/Pediatrics Curriculum, Children's Hospital, Brigham & Women's Hospital and Massachusetts General Hospital.
- 1998 Assessment and Management of Delayed Puberty
Speaker, Northeast Regional Nurse Practitioner Conference, Manchester, NH
- 1999 Bone Issues during Adolescence
Leader, Workshop, Annual Meeting, North American Society for Pediatric and Adolescent Gynecology, New Orleans, LA
- 1999 The Female Athlete Triad
Leader, Workshop, New England Regional Chapter of Society for Adolescent Medicine, Boxborough, MA
- 1999 Is Osteoporosis a Pediatric Issue?
Lecturer, Pediatric Grand Rounds, Duke University Medical Center, Durham, NC
- 2000 Delayed Puberty – Too Little, Too Late
Leader, Workshop, Annual Meeting, North American Society for Pediatric and Adolescent Gynecology, Atlanta, GA
- 2000 Assessment and Treatment of Amenorrhea and Osteoporosis in Eating Disorder Patients
Speaker, Annual Conference, Massachusetts Eating Disorder Association, Dedham, MA
- 2000 DHEA as an Anabolic and Antiosteolytic Agent for Bone
Pediatric Bone and Mineral Working Group, American Society for Bone and Mineral Research, Toronto, Ontario
- 2000 The Female Athlete Triad
Speaker, Massachusetts Governor's Committee on Physical Fitness and Sports, Women's Health Fitness Summit 2000, Boston, MA
- 2000 DHEA as an Anabolic and Antiosteolytic Agent for Bone
Speaker (one of 5 alumni fellows invited to present research), Medical Symposium: Celebration of Eight Years of the Clinical Investigator Training Program. MIT/Whitehead Institute, Cambridge, MA
- 2001 Adolescent Medicine: Menstrual Disorders
Speaker, Office Practice of Primary Care Medicine HMS Postgraduate Course, Brigham & Women's Hospital, Boston, MA
- 2001 Bone Loss in Young Female Athletes
State House Speaker for Osteoporosis Awareness Week, Osteoporosis Awareness Program, Massachusetts Department of Public Health, Boston, MA
- 2001 New Therapeutic Strategies Against Bone Loss in Anorexia Nervosa.
Pediatric Grand Rounds, Children's Hospital Boston

- 2002 Physiologic Regulators of Bone Turnover in Anorexia Nervosa Annual Meeting, Society for Adolescent Medicine, Boston, MA
- 2002 Effects of Nutrition on Bone Accretion and Development in Childhood, Harvard Clinical Nutrition Research Center, Cambridge, MA
- 2002 Bone Health in Children and Adolescents. Section of Adolescent Health, annual meeting of American Academy of Pediatrics, Boston, MA
- 2003 Healthy Bones in Children and Adolescents, Pri-Med Course: Current Clinical Issues in Primary Care, Harvard Medical School, Boston, MA
- 2003 PCOS: New Insights into Etiology and Treatment, A Current Review of Pediatric Endocrinology, Serono Symposia International, Seattle, WA
- 2003 Prevalence of Vitamin D Deficiency among Healthy Adolescents. Platform Presentation, Annual Meeting of the Endocrine Society, Philadelphia, PA
- 2003 Pediatric Bone Health, Pediatric Grand Rounds, Mount Auburn Hospital, Cambridge MA
- 2003 Hypocalcemia in Adolescents. New England Bone Club, York, ME
- 2004 Amenorrhea and Bone Health. Annual meeting of the Society for Adolescent Medicine, St. Louis, MO.
- 2004 Osteopenia in Adolescent Girls. Annual meeting of the North American Society for Pediatric and Adolescent Gynecology, San Diego, CA.
- 2004 Skeletal Considerations in the Adolescent Patient with Anorexia Nervosa. Endocrine Grand Rounds, Brown University/Rhode Island Hospital, Providence, RI.
- 2004 Vitamin D Deficiency among Adolescents. Pediatric Grand Rounds, Children's Hospital Boston.
- 2004 Building Healthy Bones in Children and Adolescents. Pediatric Grand Rounds, University of Missouri, Columbus, MO.
- 2004 Oral Contraceptives and Bone Health. Meet the Professor Luncheon: Hot Topics in Adolescents: Focus on Reproductive Health. New England Regional Society for Adolescent Medicine Meeting, Sturbridge, MA
- 2004 Bone Density Issues in Adolescents with Cystic Fibrosis. New England Bone Club, Prout's Neck, ME.
- 2005 Menstrual Disorders. A Current Review of Pediatric Endocrinology, Serono Symposia International, San Diego, CA
- 2005 Metabolic Bone Disease in Children. Joint Meeting of Hellenic Endocrine Society and American College of Clinical Endocrinology. Nafplion, Greece
- 2005 Plenary Presentation: Bone Disease in Young Women with Anorexia Nervosa. Annual Meeting, American Society for Bone and Mineral Research, Nashville, TN
- 2005 Secondary Causes of Bone Loss in Children. Keynote Speaker, Pediatric Grand Rounds, Connecticut Children's Hospital Skeletal Health Day, Hartford, CT.
- 2005 Floyd Denny Visiting Professor, University of North Carolina Medical School, Department of Pediatrics
Vitamin D Deficiency in Children and Adolescents - UNC Pediatric Grand Rounds

- Menstrual Disorders in Adolescents – Residents’ Conference
 Adolescent Bone Health - Denny Lecture
 Medical Complications of Anorexia Nervosa: Pathophysiology and Management – Adolescent CME Course Keynote Lecturer
- 2005 Bone Loss in Young Women with Anorexia Nervosa. New England Regional Society for Adolescent Medicine Fall Conference, Sturbridge, MA
- 2005 A Child with Seizures and Fractures. New England Bone Club, Prout’s Neck, ME
- 2005 Osteoporosis in Children. Massachusetts Pediatric Nutrition Practice Group, Boston, MA
- 2005 Osteoporosis in Children. Pediatric Grand Rounds, Cape Cod Hospital, Hyannis, MA
- 2006 Effect of Malnutrition on Bone Density in Teens: Anorexia Nervosa and Vitamin D Deficiency. Nutrition Seminar Series, Children’s Hospital of Philadelphia.
- 2006 Effects of Hypoestrogenism on Bone: Anorexia Nervosa and Depo Provera. Speaker, Annual Bone Day, University of Cincinnati School of Medicine.
- 2006 Hot Topics in Bone Health – Keynote Address. Annual Meeting of North American Society of Pediatric and Adolescent Gynecology. Orlando, FL.
- 2006 Bone Loss in Adolescents with Anorexia Nervosa. Sixth International Symposium on Nutritional Aspects of Osteoporosis, Lausanne-Ouchy, Switzerland.
- 2006-07 Invited Lecturer/Teacher – Endocrine Curriculum, PREP-The Course, American Academy of Pediatrics, Denver CO (2006) and Minneapolis, MN (2007)
- 2006 Menstrual Disorders in Adolescents. Meet the Professor Session, Annual Meeting, The Endocrine Society, Boston, MA
- 2007 Menstrual Disorders in Adolescents. Meet the Professor Session, Annual Meeting, The Endocrine Society, Toronto
- 2007 Bone Loss in Adolescents with Anorexia Nervosa. Endocrine Scholar Lecture Series, University of Connecticut Health Center, Farmington, CT
- 2007 Reporting of Densitometry Results in Children. Position Development Conference for International Society for Clinical Densitometry, Montreal.
- 2007 Vitamin D: What is the Optimal Level in Children? International Conference on Pediatric Bone Health. Montreal
- 2007 Invited Lecturer/Teacher: Vitamin D and Bone Health in Children, Annual Clinical Advances in Pediatrics Symposium, Kansas City (invited)
- 2007 Menstrual Disorders. A Current Review of Pediatric Endocrinology, BioSymposia, Toronto
- 2007 Invited Lecturer/Teacher: Boning Up – Hot Topic. Adolescent Medicine PREP, The American Academy of Pediatrics, Savannah, GA
- 2007 Child Neurology Symposium: Endocrine Dysfunction in Children with Epilepsy and Neurologic Disorders, Quebec City (invited)

b. Professional and Educational Leadership Roles

2004	Scientific Program Committee – Annual Meeting, Pediatric Academic Societies
2003-05	Scientific Program Committee - Annual Meeting, American Society for Bone and Mineral Research
2005-06	President, Pediatric Bone and Mineral Working Group, American Society for Bone and Mineral Research
2004 -	Steering Committee, Pediatric Bone and Mineral Working Group, American Society for Bone and Mineral Research
2007	Task Force Chair, International Subcommittee on Reporting Densitometry Results in Children, Position Development Conference for International Society for Clinical Densitometry
2007	Co-Chair, Scientific Steering Committee, NIH-sponsored meeting, “The Menstrual Cycle and Adolescent Health,” Washington, DC

3. Teaching Awards

1996	Housestaff Teaching Award, Children’s Hospital Boston - given annually by residents to one Clinical Fellow for “most outstanding teaching contributions”
2007	Early Career Excellence in Teaching Award, American Society for Bone and Mineral Research

4. Major Curriculum Offerings

2000-	Founder and Faculty Organizer, Children’s Hospital Boston “Bone Day” (annual scientific symposium)
2005	Faculty Course Co-Director, “Skeletal Health across the Ages” (CME event sponsored by Children’s Hospital Boston and Brigham and Women’s Hospital; this event highlighted skeletal health issues across the age spectrum)

PART III: BIBLIOGRAPHY

Original Articles

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- J Adolesc Health* 1999;24:422-26.
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2. Gordon CM. Adolescent growth and pubertal development. Adolescent Medicine Rotation Syllabus, 1998, Children's Hospital Boston.
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