

CURRICULUM VITAE

Andrew Alan Bremer, M.D., Ph.D., M.A.S., F.A.A.P.

POSITION Chief, Pediatric Growth and Nutrition Branch
National Institute of Child Health and Human Development
National Institutes of Health

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EDUCATION

09/90-05/94 Yale University
New Haven, Connecticut
Degree: B.S., Molecular Biophysics and Biochemistry

09/94-05/01 Boston University School of Medicine
Boston, Massachusetts
Degree: M.D., *Cum Laude*
Degree: Ph.D., Pharmacology

09/07-05/09 University of California, Davis
Davis, California
Degree: M.A.S., Clinical Research

POSTGRADUATE TRAINING

07/01-06/05 Baylor College of Medicine
Houston, Texas
Resident, Internal Medicine and Pediatrics

07/03-06/05 Baylor College of Medicine
Houston, Texas
Chief Resident, Internal Medicine and Pediatrics

04/05-06/05 Baylor College of Medicine
Houston, Texas
Chief Resident, Neonatology

07/05-06/07 University of California, San Francisco
San Francisco, California
Clinical Fellow, Pediatric Endocrinology

LICENSURE

2003 Medical License (L6805), State of Texas
2005 Medical License (A91845), State of California
2010 Medical License (46141), State of Tennessee

MEDICAL CERTIFICATIONS

2005 Diplomate, American Board of Internal Medicine
2005 Diplomate, American Board of Pediatrics
2007 Diplomate, American Board of Pediatrics, Pediatric Endocrinology

ACADEMIC APPOINTMENTS

07/07-07/10 Assistant Professor
Department of Pediatrics
Division of Endocrinology
University of California, Davis
Sacramento, California

07/10-11/12 Assistant Professor
Department of Pediatrics
Division of Endocrinology
Vanderbilt University
Nashville, Tennessee

11/12-11/13 Associate Professor
Department of Pediatrics
Division of Pediatric Endocrinology
Department of Medicine
Division of Endocrinology, Diabetes, and Metabolism
Vanderbilt University
Nashville, Tennessee

GOVERNMENT APPOINTMENTS

11/13-07/18 Medical Officer and Program Director
Division of Diabetes, Endocrinology, and Metabolic Diseases
National Institute of Diabetes and Digestive and Kidney Diseases
National Institutes of Health
Bethesda, Maryland

01/14-present Faculty, Pediatric Endocrinology Training Program
National Institute of Child Health and Human Development
National Institutes of Health
Bethesda, Maryland

07/18-present Chief, Pediatric Growth and Nutrition Branch
National Institute of Child Health and Human Development
National Institutes of Health
Bethesda, Maryland

HOSPITAL APPOINTMENTS

- 2001 Baylor College of Medicine
Houston, Texas
- 2005 University of California, San Francisco
San Francisco, California
- 2007 University of California, Davis
San Francisco, California
- 2010 Vanderbilt University
Nashville, Tennessee
- 2014 National Institutes of Health
Bethesda, Maryland

PROFESSIONAL ACTIVITIES

Fellowships

- 2009 Fellow, American Academy of Pediatrics

Memberships

- 1994 Yale Alumni Schools Committee
- 1994 Massachusetts Medical Society
- 2001 American Academy of Pediatrics
Section on Internal Medicine/Pediatrics
Section on Endocrinology
Section on Advances in Therapeutics and Technology
NIH liaison to the Committee on Nutrition
- 2007 The Endocrine Society
- 2007 American Diabetes Association
- 2009 The Obesity Society
Section on Pediatric Obesity
- 2010 Pediatric Endocrine Society
Public Policy Council
- 2013 Society for Pediatric Research
- 2015 Association for Clinical and Translational Science

Scientific Advisory Boards

- 2010 Science Translational Medicine

Councils

- 2014 Pediatric Endocrine Society Public Policy Council

Multicenter Research Consortium Research Groups

2010-2013 Diabetes Research in Children Network (DirecNet) and Type 1 Diabetes TrialNet Study Groups

Editorial Boards and Positions

2008-2016 Metabolic Syndrome and Related Disorders
Associate Editor: 2016

2010-2014 International Journal of Pediatric Endocrinology
2012-2017 Children
2012-2017 Pediatric Annals
Guest Editor: Pediatric Endocrinology (2012)

2013-2016 BMC (BioMed Central) Endocrine Disorders

Publication Boards

2012-2017 Pediatric Annals
Pediatric Annals is America's most widely read journal for continuing education in the field of pediatrics

Society Reviewer

2011 The Endocrine Society, abstracts for ENDO annual meeting
2012-2015 The Obesity Society, POS abstracts for TOS annual meeting

Scientific Contributor

2009-2015 National Organization for Rare Disorders (NORD)

Peer Reviewer

2008-present Metabolic Syndrome and Related Disorders
2008-present Diabetes Care
2009-present World Journal of Pediatrics
2009-2013 Archives of Pediatrics and Adolescent Medicine (now JAMA Pediatrics)
2009-present Diabetes Research and Clinical Practice
2009-present Nature Reviews Endocrinology
2009-present Endocrine
2010-present International Journal of Pediatric Endocrinology
2010-present Pediatrics International
2010-present Pediatrics
2010-present American Journal of Clinical Nutrition
2010-present Journal of Clinical Endocrinology and Metabolism
2011-present Public Library of Science (PLoS) One
2011-present Genetics in Medicine
2011-present International Journal of Pediatrics
2011-present Nutrition & Metabolism
2011-present Journal of Physical Activity & Health
2012-present Pediatric Obesity
2012-present International Journal of Obesity

2012-present Obesity
2012-present Global Public Health
2012-present Academic Pediatrics
2013-present Journal of the American Medical Association (JAMA) Pediatrics
2013-present Nutrition Research
2013-present Public Health Nutrition
2015-present Archives of Disease in Childhood
2017-present Journal of Evolution and Health

National Advisory / Consulting Activities

Government

2010-present **Member, Data Safety Monitoring Board.**
Study: Fluid Therapy and Cerebral Injury in Pediatric Diabetic Ketoacidosis (Fluid Therapy in DKA), sponsored by the *Eunice Kennedy Shriver* National Institute of Child Health and Human Development (NICHD), the Pediatric Emergency Care Applied Research Network (PECARN), Maternal and Child Health, and the Emergency Medical Services for Children (EMSC) Program, supported by R01HD062417 from the *Eunice Kennedy Shriver* National Institute of Child Health and Human Development (NICHD)

2012 **Invited NIH research meeting participant and speaker.**
Meeting: Clinical Research Strategies for Fructose Metabolism, National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health

2013 **Member, Comparative Medicine Special Emphasis Panel.**
National Center for Advancing Translational Sciences, National Institutes of Health

2014-2015 **Member, Advisory Committee.**
Project: eLearning Lesson on Hypoglycemia Medication Management, Office of the Assistant Secretary for Health, United States Department of Health and Human Services

05/16-07/18 **Member, Joint Steering Committee for Indo-U.S. Diabetes Research Collaboration.**
National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health

07/15-present **Member, NIH Child Care Board.**
Co-Chair, Back-Up Care Committee
Member, Charter Committee
Member, Strategic Planning/Marketing and Outreach Committee
Liaison, NIH Health and Wellness Council
National Institutes of Health

- 07/15-present **Member, Environmental Influences on Child Health Outcomes (ECHO) Trans-NIH Group.**
Consultant, ECHO Program
Member, Obesity Working Group
National Institutes of Health
- 07/16-present **Consultant, Food and Drug Administration.**
FDA Center for Devices and Radiological Health
United States Food and Drug Administration
- 10/16-present **Member, NIH Nutrition Research Coordinating Committee (NRCC).**
Member, Nutrition Research Task Force Strategic Planning Group
National Institute of Diabetes and Digestive and Kidney Diseases,
National Institutes of Health
- 03/17-present **Member, US Government Global Nutrition Coordination Plan Non-Communicable Diseases Sub Group.**
United States Department of Health and Human Services
United States Agency for International Development
United States Department of Agriculture
- 03/17-present **Member, HHS Task Force on Research Specific to Pregnant Women and Lactating Women.**
United States Department of Health and Human Services
National Institute of Child Health and Human Development,
National Institutes of Health
- 05/17-present **Senior Leadership Group Member, NIH Nutrition Research Task Force.**
National Institute of Child Health and Human Development
National Institutes of Health
- 12/17-present **Associate Investigator / Clinician, NIH Clinical Center.**
National Institute of Diabetes and Digestive and Kidney Diseases,
National Institutes of Health
- 07/18-present **Senior Leadership Group Member, NIH Obesity Research Task Force.**
National Institute of Child Health and Human Development
National Institutes of Health
- 07/18-present **Representative, Statutory Diabetes Mellitus Interagency Coordinating Committee (DMICC).**
National Institute of Child Health and Human Development
United States Department of Health and Human Services
- 07/18-present **Member, National Institute of Child Health and Human Development (NICHD)'s Strategic Planning Working Group.**
National Institute of Child Health and Human Development
National Institutes of Health

Non-Government

- 2010-2013 **Consultant, Novo Nordisk, Inc.**
Consult on basic science research projects and clinical research studies focused on the pathogenesis, treatment, and prevention of obesity and obesity-associated conditions
- 2011-2013 **Consultant, American Humane Association.**
Consult on issues related to research studies focused on the use of animal-assisted therapy with pediatric patients
- 2011-2013 **Consultant, Veterinarians Without Borders – United States.**
Consult on research studies focused on rebuilding Timor-Leste value chains for milk, meat, and poultry production to enhance the health of infants and children through better food quality, availability, and safety
- 2012 **Symposium Co-Chair, North American CF Conference.**
Serve as conference faculty and coordinate a scientific session on CF-related diabetes diagnosis, treatment, and management at the annual North American Cystic Fibrosis Conference; Orlando, Florida
- 2012 **Grant Reviewer, Cystic Fibrosis-Related Research.**
NIH-funded P30 Cystic Fibrosis Research Translation Center, Seattle Children's Research Institute and University of Washington School of Medicine
- 2012-2014 **Councilor, Pediatric Obesity Section of The Obesity Society.**
The Pediatric Section of The Obesity Society supports and promotes scientific efforts to understand the correlates, causes, and consequences of pediatric obesity and to inform its treatment and prevention
- 07/18-present **Senior Leadership Member, National Collaborative on Childhood Obesity Research (NCCOR)**
National Institutes of Health
Centers for Disease Control and Prevention
Robert Wood Johnson Foundation
United States Department of Agriculture

Peer-Elected Societies

- 2013 Society for Pediatric Research

UNIVERSITY SERVICE

Yale University

- 2017-present AYA Alumni-Student Mentor and Candidate Interviewer
Association of Yale Alumni

Boston University School of Medicine / Departmental Service

1999 Graduate Education Committee
Department of Pharmacology and Experimental Therapeutics

Baylor College of Medicine / Departmental Service

2003-2005 Resident Assistant Program
Department of Internal Medicine

UCSF School of Medicine / Departmental Service

2006-2007 Fellows' Leadership and Advocacy Group Co-Chair
Department of Pediatrics

2006-2007 Diabetes Interest Group Coordinator
Department of Pediatrics, Division of Endocrinology

UC Davis School of Medicine / Departmental Service

2007-2010 Pediatric Residency Selection Committee
Department of Pediatrics

2007-2010 Pediatric Medical Student Education Committee
Department of Pediatrics

2007-2010 Pediatric Residency Journal Club Core Faculty Mentor
Department of Pediatrics

2007-2010 Pediatric Endocrinology Electronic Medical Record (EMR) Liaison
Department of Pediatrics

2008-2010 Member, Exercise Science Graduate Group
University of California Davis

Vanderbilt University School of Medicine / Departmental Service

2010-2013 Faculty Affiliate Advisor, Gabbe College
Vanderbilt University School of Medicine

2010-2013 Pediatric Endocrinology Fellowship Committee
Vanderbilt University School of Medicine

2011-2013 Operations Council Member
Vanderbilt Children's Hospital Outpatient Center

2011-2013 Diabetes Research Center Member
Vanderbilt University School of Medicine

- 2011-2013 Medical School Interviewer
Vanderbilt University School of Medicine
- 2012-2013 Preceptor, Continuity Clinical Experience
Vanderbilt University School of Medicine
- 2012-2013 Seminar Leader, Continuity Clinical Experience
Vanderbilt University School of Medicine
- 2012-2013 Preceptor, Vanderbilt Interprofessional Learning Program (VPIL)
Vanderbilt University School of Medicine
- 2012-2013 Director, Cystic Fibrosis-Related Research
Vanderbilt University School of Medicine
- 2013 Member, Vanderbilt Academy for Excellence in Teaching
Vanderbilt University, College of Arts and Sciences & School of Medicine
- 2013 Faculty Advisor, Undergraduate Clinical Research Internship Program
Vanderbilt University School of Medicine

HONORS AND AWARDS

- 1993 Yale College Council Representative, Yale University
- 1993 Yale University Health Services Advisory Committee, Yale University
- 1993 American Heart Association Missouri Affiliate Summer Fellowship
- 1996 National Science Foundation Summer Institute in Japan Fellowship
- 1996 Association of Pathology Chairs, Inc. Honors Society
- 1999 Mehos Scholarship, Boston University School of Medicine
- 1999 Pharmacia and Upjohn Graduate Student Award
- 1999 1st Prize Student Achievement Award, Boston University
- 1999 Science Day Dean's Award, Boston University
- 2001 Alpha Omega Alpha – National Honor Medical Society
- 2005 Most Outstanding Resident Award, Baylor College of Medicine
- 2009 Western American Federation for Medical Research Outstanding
Investigator Award
- 2009 Excellence in Teaching Award, Department of Pediatrics, UC Davis
- 2012 Five Star Patient Satisfaction Award, Professional Research Consultants
- 2013 Inducted as a VUceptor, The Ingram Commons, Vanderbilt University
- 2013 Elected into the Vanderbilt Academy for Excellence in Teaching,
Vanderbilt University
- 2013 Five Star Patient Satisfaction Award, Professional Research Consultants
- 2013 Arkansas Medical Society Distinguished Lecturer
- 2013 Elected into the Society for Pediatric Research
- 2014 Five Star Patient Satisfaction Award, Professional Research Consultants
- 2016 NIDDK Director's Award
- 2016 NIH Director's Award
- 2018 NIDDK Director's Award

TEACHING AND MENTORING ACTIVITIES**Clinical Teaching**

- 2005-2007 Resident, intern, and medical student teaching (daily x 6 months), Department of Pediatrics, University of California San Francisco
- 2007-2010 Resident, intern, and medical student teaching (2 days/wk x 12 months), Department of Pediatrics, University of California Davis
- 2007-2010 Fellow teaching (daily x ~4 months on-service + clinics), Department of Pediatrics, University of California Davis
- 2010-2013 Resident, intern, and medical student teaching (3 days/wk x 12 months), Department of Pediatrics, Vanderbilt University
- 2010-2013 Fellow teaching (daily x ~2 months on-service + clinics), Department of Pediatrics, Vanderbilt University

Didactic Teaching

- 1996 Medical Pharmacology Instructor (daily x 2 months), Office of Minority Affairs, Boston University School of Medicine
- 1996-1998 Medical Pharmacology Instructor/Tutor Coordinator (2-3 x / week), Department of Pharmacology, Boston University School of Medicine
- 1997-1999 Medical Pharmacology Lecturer in Pharmacology of Hemostatic and Fibrinolytic Agents (2 x / year), Department of Pharmacology, Boston University School of Medicine and Goldman School of Dental Medicine
- 1997-2001 United States Medical Licensing Examination, Step 1 Instructor/Instructor Trainer (approx 4 months / year), Princeton Review, Newton, Massachusetts
- 1998 Graduate Teaching Assistant in Molecular Neurobiology and Pharmacology (6 months), Department of Pharmacology, Boston University School of Medicine

Teaching Aids

1. **Bremer AA.** The pediatrics clerkship survival guide. Houston, Texas: MD2B Publishing, 2004. URL: <http://www.MD2B.net>.

FORMAL MENTORING OF MEDICAL SUBSPECIALTY FELLOWS

Fellow	Program	Mentoring Role
Jessica Lilley Vanderbilt University	Pediatric Endocrinology Fellowship	Chair, Scholarship Oversight Committee

FORMAL MENTORING OF MEDICAL RESIDENTS

Fellow	Program	Mentoring Role
DeAnna Brown Vanderbilt University	Pediatrics	Mentor, Research Elective

FORMAL MENTORING OF MEDICAL STUDENTS – DEGREE COMMITTEES

Student	Degree	Awarded	Pending	Current Position
Ethan Kosova Northwestern University	M.D., M.P.H.	X		Medical Resident Brigham and Women's Hospital

FORMAL MENTORING OF UNDERGRADUATE STUDENTS

Student	Degree	Awarded	Pending	Current Position
Terrell Jones Florida Agricultural and Mechanical Univ.	B.S.	X		Undergraduate Student Florida Agricultural and Mechanical University

VANDERBILT CONTINUITY CLINICAL EXPERIENCE (CCE) TRAINEES

Trainee	CCE Mentor Type	Date Range	Current Position
Yengo-Kahn, Aaron	Preceptor	10/01/12 - 06/30/13	Medical student
Harris, DeAngelo	Seminar Mentor	10/01/12 - 06/30/13	Medical student
Hovis, Kristen	Seminar Mentor	10/01/12 - 06/30/13	Medical student
Jarrell, Kelli	Seminar Mentor	10/01/12 - 06/30/13	Medical student
Love, Shawn	Seminar Mentor	10/01/12 - 06/30/13	Medical student
McKenna, Matthew	Seminar Mentor	10/01/12 - 06/30/13	Medical student
Migdal, Victoria	Seminar Mentor	10/01/12 - 06/30/13	Medical student
Parks, Lindsey	Seminar Mentor	10/01/12 - 06/30/13	Medical student
Shelburne, Nicholas	Seminar Mentor	10/01/12 - 06/30/13	Medical student
Szentirmai, Eszter	Seminar Mentor	10/01/12 - 06/30/13	Medical student
Tielbur, Brittany	Seminar Mentor	10/01/12 - 06/30/13	Medical student
Wismann-Horther, Isa	Seminar Mentor	10/01/12 - 06/30/13	Medical student

FORMAL SCHEDULED CLASSES FOR UCSF STUDENTS

Qtr	Academic Yr	Course No. & Title	Teaching Contribution	Units	Class Size
Spring	2006-2007	06-07 IDS 103/131: Metabolism and Nutrition/FPC (6 hours)	Group leader	Endocrinology	15
Spring	2006-2007	06-07 IDS 112: Advances in Medical Sciences (2 hours)	Group leader	Obesity	6

CONFERENCES FOR UCSF RESIDENTS

- 2005 Chairman's Rounds, Department of Pediatrics
Presentation: Hypoglycemia in the newborn
- 2006 Resident Conference, Department of Pediatrics
Presentation: Sexual differentiation
- 2007 Chairman's Rounds, Department of Pediatrics
Presentation: Diabetes insipidus

FORMAL SCHEDULED CLASSES FOR UC DAVIS STUDENTS

Qtr	Academic Yr	Course No. & Title	Teaching Contribution	Units	Class Size
Fall	2007-2008	Peds 430 Clerkship Lecture (1 hour)	Lecturer	General Pediatrics	20
Winter	2007-2008	Peds 430 Clerkship Lecture (1 hour)	Lecturer	General Pediatrics	20
Winter	2007-2008	MDS411, Block 2 2008 Application of Medical Principles (7.5 hours)	Group Leader	Endocrinology	8
Winter	2007-2008	MDS421, Block 6 2008 Application of Medical Principles (5.5 hours)	Group Leader	Endocrinology	8
Winter	2007-2008	Metabolism- Biochemistry/ Endocrinology/ Reproduction/ Nutrition (2 hours)	Lecturer	Endocrinology	40
Winter	2007-2008	Metabolism- Biochemistry/ Endocrinology/ Reproduction/ Nutrition TBL (2 hours)	Group Leader	Endocrinology	40
Spring	2008-2009	MDS421, Block 3 Application of Medical Principles (5.5 hours)	Group Leader	Endocrinology	8

Fall	2008-2009	Student Attending (6 hours)	Group Leader	General Pediatrics	10
Fall	2008-2009	Peds 430 Clerkship Lecture (1 hour)	Lecturer	General Pediatrics	20
Winter	2008-2009	Metabolism- Biochemistry/ Endocrinology/ Reproduction/ Nutrition (2 hours)	Lecturer	Endocrinology	40
Winter	2008-2009	Metabolism- Biochemistry/ Endocrinology/ Reproduction/ Nutrition TBL (2 hours)	Group Leader	Endocrinology	40
Winter	2008-2009	Metabolism- Biochemistry/ Endocrinology/ Reproduction/ Nutrition Obesity Case Discussion (2 hours)	Group Leader	Endocrinology	40
Winter	2008-2009	Exercise Science Graduate Group EXB 112, Clinical Exercise Physiology (3 hours)	Lecturer	Exercise Physiology	100
Spring	2008-2009	Exercise Science Graduate Group EXS/MCP 290 Seminar (1 hour)	Lecturer	Exercise Physiology	40
Fall	2009-2010	Epidemiology Graduate Group, EPI 290 (1 hour)	Lecturer	Epidemiology	20
Winter	2009-2010	Metabolism- Biochemistry/ Endocrinology/ Reproduction/ Nutrition (2 hours)	Lecturer	Endocrinology	40

Winter	2009-2010	Metabolism- Biochemistry/ Endocrinology/ Reproduction/ Nutrition TBL (2 hours)	Group Leader	Endocrinology	40
Winter	2009-2010	Exercise Science Graduate Group EXB 112, Clinical Exercise Physiology (3 hours)	Lecturer	Exercise Physiology	100
Spring	2009-2010	School of Public Health SPH 290: Topics In Public Health (1 hour)	Lecturer	Epidemiology	15

LECTURES FOR UC DAVIS UNDERGRADUATE STUDENTS

- Winter 2009 Exercise Science Graduate Group
Presentation: Diabetes mellitus
- Winter 2009 Exercise Science Graduate Group
Presentation: Metabolic syndrome
- Winter 2009 Exercise Science Graduate Group
Presentation: Metabolic homeostasis
- Spring 2009 Exercise Science Graduate Group
Presentation: Insulin resistance – insights into pathogenesis & treatment
- Winter 2010 Exercise Science Graduate Group
Presentation: Diabetes mellitus
- Winter 2010 Exercise Science Graduate Group
Presentation: Metabolic syndrome
- Winter 2010 Exercise Science Graduate Group
Presentation: Metabolic homeostasis

LECTURES FOR UC DAVIS GRADUATE STUDENTS

- Spring 2009 Exercise Science Graduate Group
Presentation: Insulin resistance – insights into pathogenesis & treatment
- Fall 2009 Epidemiology Graduate Group
Presentation: The relationship between insulin resistance-associated metabolic parameters and anthropometric measurements with sugar sweetened beverage intake and physical activity levels in US adolescents

Spring 2010 School of Public Health
Presentation: Sugar-sweetened beverages and public policy – health & economic aspects

LECTURES FOR UC DAVIS MEDICAL STUDENTS

Fall 2007 Pediatrics Clerkship
Presentation: Sexual differentiation

Fall 2007 Pediatrics Clerkship
Presentation: Delayed adolescence & sexual precocity

Winter 2008 2nd Year Medical Student Curriculum
Presentation: Metabolic homeostasis

Summer 2008 Pediatrics Clerkship
Presentation: Sexual differentiation

Fall 2008 Pediatrics Clerkship
Presentation: Disorders of growth

Fall 2008 Medical Student Interest Group
Presentation: Outpatient management of type 2 diabetes

Winter 2009 2nd Year Medical Student Curriculum
Presentation: Metabolic homeostasis

Winter 2009 2nd Year Medical Student Curriculum
Presentation: Obesity

Winter 2010 2nd Year Medical Student Curriculum
Presentation: Metabolic homeostasis

CONFERENCES FOR UC DAVIS RESIDENTS

Fall 2007 Resident Conference, Department of Pediatrics
Presentation: Pediatric endocrine emergencies

Winter 2008 Resident Conference, Department of Pediatrics
Presentation: Sexual differentiation

Spring 2008 Resident Conference, Department of Pediatrics
Presentation: Delayed adolescence & sexual precocity

Summer 2008 Resident Conference, Department of Pediatrics
Presentation: Disorders of growth

Summer 2008 Resident Conference, Department of Pediatrics
Presentation: Pediatric endocrine emergencies

Winter 2009 Resident Conference, Department of Pediatrics
Presentation: Disorders of calcium and phosphorus metabolism

Summer 2009 Resident Conference, Department of Pediatrics
Presentation: Pediatric endocrine emergencies

CONFERENCES FOR UC DAVIS FELLOWS

Spring 2008 Fellows Conference, Department of Internal Medicine
Presentation: Pediatric diabetes for internists

Fall 2008 Fellows Conference, Department of Internal Medicine
Presentation: Pediatric diabetes for internists

Fall 2008 Fellows Conference, Department of Internal Medicine
Presentation: Metabolic homeostasis

Spring 2009 Fellows Conference, Department of Internal Medicine
Presentation: Pediatric diabetes for internists

Fall 2009 Fellows Conference, Department of Internal Medicine
Presentation: Metabolic homeostasis

CONFERENCES FOR UC DAVIS FACULTY

Spring 2008 Tumor Board, Department of Pediatrics
Division of Hematology and Oncology, University of California Davis
Presentation: Corticosteroids in cancer treatment

Fall 2008 Faculty Research Seminar Series
Department of Pediatrics, University of California Davis
Presentation: Insights into the pathogenesis of metabolic syndrome

Summer 2009 Tumor Board, Department of Pediatrics
Division of Hematology and Oncology, University of California Davis
Presentation: Endocrine complications of childhood cancer therapy

Spring 2010 Tumor Board, Department of Pediatrics
Division of Hematology and Oncology, University of California Davis
Presentation: Endocrine complications of childhood cancer therapy

LECTURES FOR VANDERBILT MEDICAL STUDENTS

Spring 2011 Pre-Clinical Intersession, Department of Pediatrics
Presentation: Career development

CONFERENCES FOR VANDERBILT RESIDENTS

Winter 2011 Resident Conference, Department of Pediatrics
Presentation: The adrenal gland

Summer 2012 Resident Conference, Department of Pediatrics
Presentation: The adrenal gland

CONFERENCES FOR VANDERBILT FELLOWS

Spring 2011 Pediatric Intensive Care Unit Fellows' Conference
Presentation: Calcium/phosphorus homeostasis

Spring 2012 Pediatric Intensive Care Unit Fellows' Conference
Presentation: Calcium/phosphorus homeostasis

CONFERENCES FOR VANDERBILT FACULTY

Fall 2010 Pediatric Endocrinology Division Conference
Presentation: Polycystic ovary syndrome in the pediatric population

Fall 2010 Research Conference
Department of Pediatrics, Vanderbilt University
Presentation: Carbohydrates in the diet – does your preferred monosaccharide matter?

Summer 2011 Pediatric Endocrinology Division Conference
Presentation: Neonatal endocrinopathies

Summer 2011 Pediatric Endocrinology Division Conference
Presentation: Cystic fibrosis-related diabetes

Winter 2012 Pediatric Endocrinology Division Conference
Presentation: Cystic fibrosis-related diabetes

FORMAL SCHEDULED CLASSES FOR STUDENTS ATTENDING THE FOUNDATION FOR ADVANCED EDUCATION IN THE SCIENCES (FAES) AT THE NATIONAL INSTITUTES OF HEALTH (NIH)

Qtr	Academic Yr	Course No. & Title	Teaching Contribution	Units	Class Size
Fall	2014-2015	PBHL 533: Non-Communicable Diseases in Global Health (3 hours)	Lecturer/ Group Leader	Diabetes in Global Health	25
Spring	2015-2016	PBHL 533: Non-Communicable Diseases in Global Health (3 hours)	Lecturer/ Group Leader	Diabetes in Global Health	25
Spring	2016-2017	PBHL 533: Chronic Care in Global Health (3 hours)	Lecturer/ Group Leader	Diabetes in Global Health	25

Spring	2017-2018	PBHL 533: Chronic Care in Global Health (3 hours)	Lecturer/ Group Leader	Diabetes in Global Health	25
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PARTICIPATION IN OTHER FEDERAL COURSES

2018 Global Health Diplomacy Course (PE152)
Presentation: Diabetes and global health – implications for global health
diplomacy
Department of State
Foreign Service Institute, Arlington, VA

PRE-NIH ACADEMIC RESEARCH SUPPORT

Jaeb Center for Health Research/NIH NIDDK (U01 HD4189); DirecNet-TrialNet; Vanderbilt University Institute for Clinical and Translational Research (VR1458)

Effect of metabolic control at onset of diabetes on progression of type 1 diabetes

The major goals of the study are to determine: (1) if early restoration of metabolic control in individuals with new-onset diabetes will improve C-peptide production compared to individuals receiving routine diabetes management, and (2) if allowing the islet cells to be less metabolically active will have an impact on the underlying autoimmune process.

Role: Site-Principal Investigator

Dates: 11/04/10 – 10/31/13

Cystic Fibrosis Foundation/Emory University

Practical two-step screening for cystic fibrosis (CF)-related diabetes (CFRD) and prediabetes (CFRPD)

Since CFRPD and early CFRD are similar in pathophysiology and phenotype – insulin resistance, reduced insulin secretion, and post-challenge hyperglycemia – the major goals of the study are to determine if it is possible to screen CF patients with a strategy similar to that used to screen for gestational diabetes – a lower-dose oral glucose challenge test (GCT) at any time of day and without a prior fast, with glucose measurements 1 hour later, followed by an OGTT only if glucose values exceed a prespecified cutoff.

Role: Site-Principal Investigator

Dates: 07/01/12 – 10/31/13

PREVENT (FDA; R01FD003527) (VUMC40326)

A randomized, double-blind, placebo-controlled study to determine whether chronic treatment of cystic fibrosis subjects with impaired glucose tolerance using sitagliptin (Januvia™) prevents the development of diabetes

The major goals of the study are to determine if treatment with sitagliptin (Januvia™) in cystic fibrosis (CF) patients with high-risk pre-diabetes will prevent the development of CF-related diabetes (CFRD) and improve glycemic management in CF patients who already have CFRD.

Role: Site-Principal Investigator

Dates: 04/01/12 – 10/31/13

American Humane Association (VUMC38758)

Animal-assisted therapy with pediatric oncology patients and their families: focus groups and interviews

The major goals of this program are to promote innovation, evidence-based research, practice improvements, and knowledge advancement, thus furthering the field of research on human-animal interaction and the treatment of cancer in children.

Role: Principal Investigator

Dates: 01/01/12-10/31/13

American Humane Association / Pfizer Animal Health

Canines and Childhood Cancer: Examining the Effects of Therapy Dogs with Childhood Cancer Patients and their Families – A Pilot Study

The major goal of this project is to work with children and families at hospitals that treat children with cancer to rigorously examine the medical, behavioral and mental health effects of animal-assisted therapy (AAT).

Role: Site-Principal Investigator

Dates: 01/01/13 – 10/31/13

NIH Pediatric Research Loan Repayment Program

The development and treatment of insulin resistance and dyslipidemia in a non-human primate model of metabolic syndrome

The major goal of this study is to use a high-fructose diet in rhesus macaques to develop a non-human primate model insulin resistance and dyslipidemia which can be used to study the pathogenesis and treatment of metabolic syndrome.

Role: Principal Investigator

Dates: 07/01/09 – 10/31/13

Vanderbilt Diabetes Center (S000003016)

Effect of dysglycemia on eicosanoids in cystic fibrosis

The major goals of this study are to determine: (1) the differences in isoprostanes, prostaglandins, leukotrienes, and their metabolites in cystic fibrosis patients with and without cystic fibrosis-related diabetes (CFRD), and (2) the relationship between eicosanoid concentrations in cystic fibrosis patients with and without CFRD with pulmonary function.

Role: Principal Investigator

Dates: 03/01/13 – 06/30/13

Vanderbilt Diabetes Center (S000003016)

Effect of dysglycemia on eicosanoids in cystic fibrosis

The major goals of this study are to determine: (1) the differences in isoprostanes, prostaglandins, leukotrienes, and their metabolites in cystic fibrosis (CF) patients with and without CF-related diabetes (CFRD), and (2) the relationship between eicosanoid concentrations in CF patients with and without CFRD with pulmonary function.

Role: Principal Investigator

Dates: 03/01/13 – 06/30/13

Vanderbilt Diabetes Center (S000002705)

Effect of dysglycemia on eicosanoids in cystic fibrosis

The major goals of this study are to determine: (1) the differences in isoprostanes, prostaglandins, leukotrienes, and their metabolites in cystic fibrosis (CF) patients with

and without CF-related diabetes (CFRD), and (2) the relationship between eicosanoid concentrations in CF patients with and without CFRD with pulmonary function.

Role: Principal Investigator

Dates: 10/01/12 – 02/28/13

NIH R01 HL09333

Effects of 2-weeks fructose & HFCS consumption on dyslipidemia & insulin resistance

The major goals of this project are to conduct a dose-response study of the effects of 2 weeks consumption of dietary high fructose corn syrup or fructose at 10%, 17.5% or 25% of energy requirements on lipid metabolism, insulin sensitivity and hepatic lipid content and to determine if these effects differ between in normal weight and overweight/obese adults, age 18-40 years.

Role: Study Physician / Consultant (PI: Havel PJ, UC Davis)

Dates: 01/01/08 – 11/30/12

Vanderbilt Diabetes Center (S000002452)

Effect of dysglycemia on eicosanoids in cystic fibrosis

The major goals of this study are to determine: (1) the differences in isoprostanes, prostaglandins, leukotrienes, and their metabolites in cystic fibrosis patients with and without cystic fibrosis-related diabetes (CFRD), and (2) the relationship between eicosanoid concentrations in cystic fibrosis patients with and without CFRD with pulmonary function.

Role: Principal Investigator

Dates: 02/01/12 – 06/30/12

Daiichi Sankyo Inc. (WEL-A-U307; VUMC37349)

Colesevelam oral suspension as monotherapy or add-on to metformin therapy in pediatric subjects with type 2 diabetes mellitus

The major goal of the study is to evaluate colesevelam as a treatment for type 2 diabetes and to evaluate its clinical safety and efficacy in patients aged 10-17 years.

Role: Co-Investigator

Dates: 02/24/11 – 12/31/12

Cystic Fibrosis Foundation (Bremer11QIO)

Learning and leadership collaborative: cystic fibrosis-related diabetes (CFRD) care

The goals of this program are to assemble a multi- and inter-disciplinary Cystic Fibrosis-Related Diabetes (CFRD) management team that includes pulmonologists, registered dietitians, nurses, diabetes educators, and endocrinologists to: (1) improve CFRD screening; (2) standardize glycemic monitoring of CF patients during hospitalizations; (3) enhance the medical therapy of those with CFRD; (4) develop a set of care processes based on new CFRD care guidelines and best practices; and (5) establish a CFRD database for patient monitoring and research protocols.

Role: Principal Investigator

Dates: 01/01/11-01/01/12

NIH K12 Mentored Clinical Scientist Development Program Award

PC-1 as a biomarker of insulin resistance

The major goals of this study are to characterize PC-1 from blood elements and characterize the correlation between PC-1 and insulin sensitivity.

Role: Principal Investigator

Dates: 09/01/08 – 06/30/10

University of California Davis Academic Senate Research Grant

The pathogenesis and treatment of insulin resistance in rhesus macaques

The major goals of this study are to evaluate the metabolic effects that occur during the induction and treatment of metabolic syndrome in rhesus macaques

Role: Principal Investigator

Dates: 07/01/09 – 06/30/10

Children's Miracle Network General Research Grant

The evaluation of PC-1 as a diagnostic biomarker of insulin resistance

The major goals of this study are to characterize PC-1 from blood elements and evaluate the role of PC-1 in the pathogenesis of insulin resistance.

Role: Principal Investigator

Dates: 07/01/08 – 06/30/10

California National Primate Research Center Grant

The metabolic effects of maternal exposure to a high-fructose diet on the fetus

The major goals of this study are to test the hypotheses that (1) female rhesus macaques will develop metabolic syndrome after exposure to a high-fructose diet during pregnancy, and (2) a maternal high-fructose diet during pregnancy will lead to changes in the intrauterine environment and the metabolic programming of the fetus.

Role: Principal Investigator

Dates: 07/01/09 – 06/30/10

University of California Davis Genome Center Research Grant

The genetic and metabolomic effects of fructose exposure on rhesus macaques

The major goals of this study are to evaluate the changes in both tissue gene expression and the systemic metabolic profile that occur during the induction of insulin resistance in rhesus macaques with fructose.

Role: Principal Investigator

Dates: 07/01/09 – 06/30/10

American Diabetes Association 1-07-CR-28

Inflammation, cellular function, and metabolic syndrome

The major goals of this project are to examine (1) baseline inflammatory cell function in patients with the metabolic syndrome, and (2) the effect of therapeutic lifestyle change on inflammatory cell function in patients with the metabolic syndrome.

Role: Co-Investigator; Study Physician (PI: Jialal I, UC Davis)

Dates: 01/01/07 – 12/31/09

NIH R33DK069801

Cellular pathways of inflammation in type 1 diabetes

The major goals of this project are to examine the effect of atorvastatin therapy on biomarkers of inflammation, intravital microscopy, and urinary microalbumin in type 1 diabetic patients.

Role: Study Physician (PI: Devaraj S, UC Davis)

Dates: 09/01/04 – 08/31/09

K30 Mentored Clinical Research Training Program Grant, UC Davis

PC-1 and the pathogenesis of insulin resistance

The major goals of this study are to further define the role of PC-1 in the pathogenesis and diagnostic evaluation of insulin resistance.

Role: Principal Investigator

Dates: 07/01/07 – 06/30/09

NIH 1R01-HL-075675

Dietary fructose: hormones & triglyceride/lipoprotein metabolism

The major goals of this project are to examine the metabolic, endocrine, and atherogenic effects of 10 weeks of dietary fructose consumption in normal and hyperlipidemic, insulin resistant humans.

Role: Study Physician (PI: Havel PJ, UC Davis)

Dates: 07/01/04 – 06/30/09

NIH Pediatric Research Loan Repayment Program

Molecular characterization of the PC-1/insulin receptor complex and the role of PC-1 in insulin resistance

The major goals of this study are to define how PC-1 interacts with the insulin receptor and define the molecular mechanisms of PC-1 overexpression in insulin resistance.

Role: Principal Investigator

Dates: 07/01/06 – 06/30/08

Other Research Support and Awards

- 2007 Genentech Clinical Fellows Travel Grant
- 2007 Diabetes Center Research Center Pilot and Feasibility Award, UCSF
- 2009 University of California Academic Senate Research Travel Award
- 2010 Western Society for Pediatric Research Mead Johnson Travel Award

PREVIOUS UNIVERSITY SERVICE ACCOMPLISHMENTS

Quality improvement initiative to enhance CFRD screening and treatment.

This quality improvement initiative involved the creation of a multi- and inter-disciplinary CFRD management team that includes pulmonologists, registered dietitians, nurses, diabetes educators, and endocrinologists to: (1) improve CFRD screening in both pediatric and adult CF patients; (2) standardize glycemic monitoring of pediatric and adult CF patients during hospitalizations; (3) enhance the medical therapy of those with CFRD utilizing subcutaneous insulin and insulin pumps; (4) develop a set of care processes based on new CFRD care guidelines and best practices to improve the delivery of care and key outcomes; and (5) establish a CFRD database for patient monitoring and research protocols. During this one-year initiative, screening for CFRD increased 56% at the Vanderbilt Cystic Fibrosis Center, resulting in the identification of 64% more patients with CFRD. Moreover, the educational materials resulting from this initiative were presented at the Annual North American Cystic Fibrosis Conference.

Role: Principal Investigator

Dates: 08/30/10 – 11/02/11

PUBLICATIONS**Scientific and Clinical Peer-Reviewed Publications****Original Research Articles**

1. **Bremer AA**, Leeman SE, Boyd ND. The common C-terminal sequences of substance P and neurokinin A contact the same region of the NK-1 receptor. *FEBS Lett* 2000;486:43-48. [PMID: 11108840]
2. **Bremer AA**, Tansky MF, Wu M, Boyd ND, Leeman SE. Direct evidence for the interaction of neurokinin A with the tachykinin NK₁ receptor in tissue. *Eur J Pharmacol* 2001;423:143-147. [PMID: 11448478]
3. Pellegrini M, **Bremer AA**, Ulfers A, Boyd ND, Mierke DF. Molecular characterization of the substance P·NK-1 receptor complex: development of an experimentally based model. *J Biol Chem* 2001;276:22862-22867. [PMID: 11294871]
4. **Bremer AA**, Leeman SE, Boyd ND. Evidence for spatial proximity of two distinct receptor regions in the substance P (SP)·neurokinin-1 receptor (NK-1R) complex obtained by photolabeling the NK-1R with *p*-benzoylphenylalanine³-SP. *J Biol Chem* 2001;276:22857-22861. [PMID: 11294866]
5. Tanyolac S, **Bremer AA**, Hodoglugil U, Movsesyan I, Pullinger CR, Heiner S, Malloy MJ, Kane JP, Goldfine ID. Genetic Variants of the ENPP1/PC-1 gene are associated with hypertriglyceridemia in male subjects. *Metab Syndr Relat Disord* 2009;7:543-548. [PMID: 19656007]; PMCID: PMC3139525
6. Swarbrick MM, Havel PJ, Levin AA, **Bremer AA**, Stanhope KL, Butler M, Booten SL, Graham JL, McKay RA, Murray SF, Watts LM, Monia BP, Bhanot S. Inhibition of protein tyrosine phosphatase-1B (PTP-1B) with antisense oligonucleotides improves insulin sensitivity and increases adiponectin concentrations in monkeys. *Endocrinology* 2009;150:1670-1679. [PMID: 19164474]; PMCID: PMC2659262
7. **Bremer AA**, Auinger P, Byrd RS. The relationship between insulin resistance-associated metabolic parameters and anthropometric measurements with sugar-sweetened beverage intake and physical activity levels in US adolescents: findings from the 1999-2004 National Health and Nutrition Examination Survey. *Arch Pediatr Adolesc Med* 2009;163:328-335. [PMID: 19349561]
8. Stanhope KL, Schwarz JM, Keim NL, Griffen SC, **Bremer AA**, Graham JL, Hatcher B, Cox CL, Dyachenko A, Zhang W, McGahan JP, Seibert A, Krauss RM, Chiu S, Schaefer EJ, Ai M, Otokozawa S, Nakajima K, Nakano T, Beysen C, Hellerstein MK, Berglund L, Havel PJ. Consuming fructose-sweetened, not glucose-sweetened, beverages increases visceral adiposity and lipids and decreases insulin sensitivity in overweight/obese humans. *J Clin Invest* 2009;119:1322-1334. [PMID: 19381015]; PMCID: PMC2673878

9. **Bremer AA**, Auinger P, Byrd RS. Sugar-sweetened beverage intake trends in US adolescents and their association with insulin resistance-related parameters. *J Nutr Metab* 2010;2010.pii:196476. [PMID: 20700405]; PMCID: PMC2911593
10. **Bremer AA**, Byrd, RS, Auinger P. Differences in male and female adolescents from various racial groups in the relationship between insulin resistance-associated parameters with sugar-sweetened beverage intake and physical activity levels. *Clin Pediatr* 2010;49:1134-1142. [PMID: 21098536]; PMCID: PMC415483
11. Deveraj S, Jialal I, Yun JM, **Bremer A**. Demonstration of increased toll-like receptor 2 and toll-like receptor 4 expression in monocytes of type 1 diabetes mellitus patients with microvascular complications. *Metabolism* 2011;60:256-259. [PMID: 20153491]; PMCID: PMC2891423
12. **Bremer AA**, Byrd, RS, Auinger P. Racial trends in sugar-sweetened beverage consumption among US adolescents: 1988-2004. *Int J Adolesc Med Health* 2011;23:279-286. [PMID: 22191196]
13. Loomba-Albrecht LA, **Bremer AA**, Styne DM, Glaser NS. High frequency of cardiac and behavioral complaints as presenting symptoms of hyperthyroidism in children. *J Pediatr Endocrinol Metab* 2011;24:209-213. [PMID: 21648295]
14. Stanhope KL, Griffen SC, **Bremer AA**, Vink RG, Schaefer EJ, Nakajima K, Schwarz JM, Beysen C, Berglund L, Keim NL, Havel PJ. Metabolic responses to prolonged consumption of glucose- and fructose-sweetened beverages are not associated with postprandial or 24-h glucose and insulin excursions. *Am J Clin Nutr* 2011;94:112-119. [PMID: 21613559]; PMCID: PMC3127512
15. **Bremer AA**, Stanhope KL, Graham JL, Cummings BP, Wang W, Saville BR, Havel PJ. Fructose-fed rhesus monkeys: a nonhuman primate model of insulin resistance, metabolic syndrome, and type 2 diabetes. *Clin Transl Sci* 2011;4:243-252. [PMID: 21884510]; PMCID: PMC3170136
16. Van Loan MD, Keim NL, Adams SH, Souza E, Woodhouse LR, Thomas A, Witbracht M, Gertz ER, Piccolo B, **Bremer AA**, Spurlock M. Dairy foods in a moderate energy restricted diet do not enhance central fat, weight, and intra-abdominal adipose tissue losses nor reduce adipocyte size or inflammatory markers in overweight and obese adults: a controlled feeding study. *J Obes* 2011;2011:989657. [PMID: 21941636]; PMCID: PMC3173723
17. Stanhope KL, **Bremer AA**, Medici V, Nakajima K, Ito Y, Nakano T, Chen G, Fong TH, Lee V, Menorca R, Keim NL, Havel PJ. Consumption of fructose and high fructose corn syrup increase postprandial triglycerides, LDL-cholesterol, and apolipoprotein-B in young men and women. *J Clin Endocrinol Metab* 2011;96:E1596-1605. [PMID: 21849529]; PMCID: PMC3200248
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19. Cox CL, Stanhope KL, Schwarz JM, Graham JL, Hatcher B, Griffen SC, **Bremer AA**, Berglund L, McGahan JP, Beyson C, Keim NL, Havel PJ. Circulating concentrations of monocyte chemoattractant protein-1, plasminogen activator inhibitor-1, and soluble leukocyte adhesion molecule-1 in overweight/obese men and women consuming fructose- or glucose sweetened beverages for 10 weeks. *J Clin Endocrinol Metab* 2011;E2034-2038. [PMID: 21956423]; PMCID: PMC3232623
20. Cox CL, Stanhope KL, Schwarz JM, Graham JL, Hatcher B, Griffen SC, **Bremer AA**, Berglund L, McGahan JP, Havel PJ, Keim NL. Consumption of fructose-sweetened beverages for 10 weeks reduces net fat oxidation and energy expenditure in overweight/obese men and women. *Eur J Clin Nutr* 2012;66:201-208. [PMID: 21952692]; PMCID: PMC3252467
21. Mathew RP, Hernanz-Schulman M, Wilkins S, Wang W, Saville B, **Bremer A**. Changes in carotid artery sonogram in premature adrenarche. *J Pediatr Endocrinol Metab* 2012;25:139-145. [PMID: 22570963]
22. Krakowiak P, Walker CK, **Bremer AA**, Baker A, Ozonoff S, Hansen RL, Hertz-Picciotto I. Maternal metabolic conditions and risk for autism and other neurodevelopmental disorders. *Pediatrics* 2012;129:e1121-1128. [PMID: 22492772]; PMCID: PMC3340592
23. Mathew RP, Johnson BD, Wang W, Saville BR, **Bremer AA**. How much is enough? Evaluation of adrenal function in children who undergo growth hormone stimulation test. *J Pediatr Endocrinol Metab* 2012;25:733-739. [PMID: 23155702]
24. Cox CL, Stanhope KL, Schwarz JM, Graham JL, Hatcher B, Griffen SC, **Bremer AA**, Berglund L, McGahan JP, Keim NL, Havel PJ. Consumption of fructose- but not glucose-sweetened beverages for 10 weeks increases circulating concentrations of uric acid, retinol binding protein-4, and gamma-glutamyl transferase activity in overweight/obese humans. *Nutr Metab* 2012;9:68. [PMID: 22828276]; PMCID: PMC3463498
25. Cummings BP, **Bremer AA**, Keiffer TJ, D'Alessio D, Havel PJ. Investigation of the mechanisms contributing to the compensatory increase of insulin secretion during dexamethasone-induced insulin resistance in rhesus macaques. *J Endocrinol* 2013;216:207-215. [PMID: 23151361]
26. Kosova E, Auinger P, **Bremer AA**. Relationship between sugar-sweetened beverage intake with metabolic markers and anthropometric measurements in young children. *J Acad Nutr Diet* 2013;113:219-227. [PMID: 23351625]; PMCID: PMC4116486
27. Jialal I, Devaraj S, Kaur H, Adams-Huet B, **Bremer AA**. Increased chemerin and decreased omentin-1 in both adipose tissue and plasma in nascent metabolic syndrome. *J Clin Endocrinol Metab* 2013;98:E514-517. [PMID: 23303213]
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- closed-loop therapy initiated within 1 week of type 1 diabetes diagnosis. *Diabetes Technol Ther* 2013;15:401-408. [PMID: 23570538]; PMCID: PMC3643224
29. Bettaieb A, Bakke J, Nagata N, Matsuo K, Xi Y, Liu S, Aboubechara D, Melhem R, Stanhope K, Cummings B, Graham J, **Bremer A**, Zhang S, Lyssiotis CA, Zhang ZY, Cantley LC, Havel PJ, Haj FG. Protein tyrosine phosphatase 1B regulates pyruvate kinase M2 tyrosine phosphorylation. *J Biol Chem* 2013;288:17360-17361. [PMID: 23640882]; PMCID: PMC3682537
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 32. **Bremer AA**, Stanhope KL, Graham JL, Cummings BP, Ampah SB, Saville BR, Havel PJ. Fish oil supplementation ameliorates fructose-induced hypertriglyceridemia and insulin resistance in adult male rhesus macaques. *J Nutr* 2014;144:5-11. [PMID: 24108131]; PMCID: PMC3861794
 33. Buckingham BA, Cheng P, Beck RW, Kollman C, Ruedy KJ, Weinzimer SA, Slover R, **Bremer AA**, Fuqua J, Tamborlane W; Diabetes Research in Children Network (DirecNet) and Type 1 Diabetes TrialNet Study Groups. CGM-measured glucose values have a strong correlation with C-peptide, A1c, and IDAAC, but do poorly in predicting C-peptide levels in the two years following onset of diabetes. *Diabetologia* 2015;58:1167-1174. [PMID: 25773405]; PMCID: PMC4416994
 34. Stanhope KL, Medici V, **Bremer AA**, Lee V, Lam HD, Nunez MV, Chen GX, Keim NL, Havel PJ. A dose-response study of consuming high-fructose corn syrup-sweetened beverages on lipid/lipoprotein risk factors for cardiovascular disease in young adults. *Am J Clin Nutr* 2015;101:1144-1154. [PMID: 25904601]; PMCID: PMC4441807
 35. DiMeglio LA, Cheng P, Beck RW, Kollman C, Ruedy KJ, Slover R, Aye T, Weinzimer SA, **Bremer AA**, Buckingham BA; Diabetes Research in Children Network (DirecNet) and Type 1 Diabetes TrialNet Study Groups. Changes in beta cell function during the proximate post-diagnosis period in persons with type 1 diabetes. *Pediatr Diabetes* 2016;17:237-243. [PMID: 25720763]; PMCID: PMC4551616
 36. Triolo TM, Maahs DM, Pyle L, Slover R, Buckingham B, Cheng P, DiMeglio LA, **Bremer AA**, Weinzimer SA, Chase HP; Diabetes Research in Children Network (DirecNet); Type 1 Diabetes TrialNet Study Groups. Effects of frequency of sensor-augmented pump use on HbA1c and C-peptide levels in the first year of

- type 1 diabetes. *Diabetes Care* 2016;39:e61-62. [PMID: 26895885]; PMCID: PMC4806776
37. Allister Price C, Argueta DA, Medici V, **Bremer AA**, Lee V, Nunez MV, Chen GX, Keim NL, Havel PJ, Stanhope KL, DiPatrizio NV. Plasma fatty acid ethanolamines are associated with postprandial triglycerides, ApoCIII and ApoE in humans consuming high fructose corn syrup-sweetened beverage. *Am J Physiol Endocrinol Metab* 2018; in press. [PMID: 29634315]; PMCID: pending

Reviews

38. **Bremer AA**, Darouiche RO. Spinal epidural abscess presenting as intra-abdominal pathology: a case report and literature review. *J Emerg Med* 2004;26:51-56. [PMID: 14751478]
39. **Bremer AA**, Miller WL. The serine phosphorylation hypothesis of polycystic ovary syndrome: a unifying mechanism for hyperandrogenemia and insulin resistance. *Fertil Steril* 2008;89:1039-1048. [PMID: 18433749]
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Point of View / Commentary / Hypothesis Articles

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55. **Bremer AA**. The use of insulin in cystic fibrosis-related diabetes: a philosophical difference from the use of insulin in type 1 and type 2 diabetes. *Pediatr Pulmonol* 2012;47:1039-1041. [PMID: 22911489]
56. Cronise RJ, Sinclair DA, **Bremer AA**. The “metabolic winter” hypothesis: a cause of the current epidemics of obesity and cardiometabolic disease. *Metab Syndr Relat Disord* 2014;12:355-361. [PMID: 24918620]; PMCID: PMC4209489
57. **Bremer AA**. Resveratrol use in metabolic syndrome. *Metab Syndr Relat Disord* 2014;12:493-495. [PMID: 25229675]; PMCID: PMC4251086
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Letters to the Editor

73. Franco WB, Brown RF, **Bremer AA**. Use of “glucola alternatives” for cystic fibrosis-related diabetes screening. *J Cyst Fibros* 2011;10:384-385. [PMID: 21703944]

Invited Editorials

74. **Bremer AA**. Mechanism of a metabolic shift in monkeys. *Sci Transl Med* 2010;2:14ec4.
75. **Bremer AA**. Moms and the metabolic syndrome. *Sci Transl Med* 2010;2:17ec16.
76. **Bremer AA**. It’s not my fault, I was born this way. *Sci Transl Med* 2010;2:20ec28.
77. **Bremer AA**. Got milk? *Sci Transl Med* 2010;2:23ec41.
78. **Bremer AA**. Mom’s diet and baby’s appetite. *Sci Transl Med* 2010;2:26ec54.
79. **Bremer AA**. Keep monkeying around. *Sci Transl Med* 2010;2:29ec66.
80. **Bremer AA**. HIF-1 α : a new target for treating diabetes. *Sci Transl Med* 2010;2:32ec78.
81. **Bremer AA**. What’s hypusine got to do with diabetes? Well, maybe a lot! *Sci Transl Med* 2010;2:35ec90.
82. **Bremer AA**. New advances in gene therapy: the use of MGMT^{P140K}-mediated stem cell selection in nonhuman primates. *Sci Transl Med* 2010;2:38ec102.
83. **Bremer AA**. The skin(ny) on new β -like cells for treating diabetes. *Sci Transl Med* 2010;2:41ec114.
84. **Bremer AA**. Adapting to aging and metabolism. *Sci Transl Med* 2010;2:41ec116.
85. **Bremer AA**. Immune regulators: not just for type 1 diabetes anymore? *Sci Transl Med* 2010;2:47ec135.
86. **Bremer AA**. Beating heart disease in diabetes? *Sci Transl Med* 2010;2:50ec146.
87. **Bremer AA**. Fatty eggs and infertility. *Sci Transl Med* 2010;2:53ec157.
88. **Bremer AA**. Metabolic syndrome: pass it on! *Sci Transl Med* 2010;2:56ec169.
89. **Bremer AA**. MnSOD, angiogenesis, and wounds: let the healing begin! *Sci Transl Med* 2010;2:59ec181.
90. **Bremer AA**. Therapeutic targeting for the long term. *Sci Transl Med* 2010;2:62ec193.
91. **Bremer AA**. Dad’s diet and baby’s metabolism. *Sci Transl Med* 2011;3:65ec4.

92. **Bremer AA.** Estrogen and energy balance. *Sci Transl Med* 2011;3:68ec13.
93. **Bremer AA.** Metabolic disorders in the pediatric population. *Pediatr Ann* 2012;41:59. [PMID: 22300182]
94. **Bremer AA.** Adolescent development. *Pediatr Ann* 2012;41:145. [PMID: 22494205]

Other Publications

Book Chapters

1. **Bremer AA,** Boyd ND, Leeman SE. Substance P. In: Embryonic encyclopedia of life sciences. London, United Kingdom: Nature Publishing Group, 2001. URL: <http://els.wiley.com>.
2. **Bremer AA,** Miller WL. Serine phosphorylation, insulin resistance, and the regulation of androgen synthesis. In: Diamanti-Kandarakis E, Nestler JE, Panidis D, Pasquali R (eds): Insulin resistance and the polycystic ovarian syndrome: pathogenesis, evaluation, and treatment. Totowa, New Jersey: Humana Press Inc., 2007; pp. 67-82.
3. **Bremer AA,** Leeman SE. Substance P. In: Embryonic encyclopedia of life sciences. Chichester, United Kingdom: John Wiley & Sons, Ltd, 2010. URL: <http://els.net>.
4. Havel PJ, **Bremer AA.** Endocrine regulation of energy homeostasis: implications for obesity and diabetes. In: Rios MS, Ordovas JM, Gutierrez-Fuentes JA (eds): Obesity. Barcelona, Spain: Elsevier, 2011; pp. 107-125.
5. **Bremer AA,** Miller WL. Regulation of steroidogenesis. In: Ulloa-Aguirre A, Conn M (eds): Cellular Endocrinology in Health and Disease. Chennai, India: Elsevier, 2014; pp. 207-227.

Books

1. **Bremer AA,** Goldstein BH, Nirken MH. Desai SP (ed): Pediatrics clerkship: 101 biggest mistakes and how to avoid them. Houston, Texas: MD2B Publishing, 2005.

Dissertations

1. **Bremer AA.** Molecular characterization of the agonist/neurokinin-1 receptor complex. Boston, Massachusetts: Boston University, 2000.

Contributions

1. ACTH Deficiency. National Organization for Rare Disorders (<http://rarediseases.org>), 2009.

2. Jenkins M, Reuhrdanz A, McCullough A, Casillas K, Fluke JD. Canines and childhood cancer: examining the effects of therapy dogs with childhood cancer patients and their families – literature review. Pfizer Animal Health and American Humane Association, 2012.
3. ACTH Deficiency. National Organization for Rare Disorders (<http://rarediseases.org>), 2012.

Vanderbilt Educational Publications and Resources

1. Cystic Fibrosis Related Diabetes (CFRD) Clinical Care Playbook. This document outlines in detail the following measures for both pediatric and adult cystic fibrosis (CF) patients: (1) CFRD educational materials; (2) outpatient CFRD screening measures; (3) inpatient CFRD screening measures; (4) inpatient CFRD discharge instructions; (5) CFRD treatment goals; and (6) endocrinology referral processes.

Abstracts

1. **Bremer AA**, Feldman BJ, Clark OH, Rosenthal SM. First report of a Hürthle cell thyroid neoplasm in a peri-pubertal patient. Pediatric Academic Societies National Meeting, 2006. *Ped Res E-PAS2006:59:595*.
2. **Bremer AA**, Gitelman SE, Miller WL. Congenital hyperinsulinism caused by an insulin-producing adenoma: a case report. Pediatric Academic Societies' National Meeting, 2006. *Ped Res E-PAS2006:59:3514*.
3. Loomba-Albrecht L, Glaser NS, Styne DM, **Bremer AA**. Sulfonylurea therapy in an infant with transient neonatal diabetes mellitus. Perinatal and Developmental Medicine Symposium – Mead Johnson Nutritionals, 2008.
4. Stanhope KL, Griffen SC, Keim NL, **Bremer AA**, McGahan JP, Seibert A, Schaefer EJ, Ai M, Otokozawa S, Nakajima K, Chiu S, Nakano T, Beysen C, Schwarz JM, Krauss RM, Hellerstein MK, Berglund L, Havel PJ. Consumption of fructose-, but not glucose-sweetened beverages promotes visceral adiposity and an atherogenic lipid profile, and decreases insulin sensitivity in overweight/obese men & women. Foods for Health Institute, UC Davis. Foods for Health in the 21st Century: A Roadmap for the Future – Centennial Symposia, 2008.
5. **Bremer AA**, Auinger P, Byrd RS. The relationship between insulin resistance-associated metabolic parameters and anthropometric measurements with sugar-sweetened beverage intake and physical activity levels in us adolescents: findings from the 1999-2004 national health and nutrition examination survey. Western Society for Pediatric Research Annual Meeting, 2009. *J Investig Med 2009;57:110-111*.
6. **Bremer AA**, Stanhope KL, Graham JL, Cummings BP, Havel PJ. Fructose consumption in rhesus macaques as a model for accelerated development of dyslipidemia and insulin resistance. Western Society for Pediatric Research Annual Meeting, 2009. *J Investig Med 2009;57:98*.

7. Loomba-Albrecht L, **Bremer AA**, Styne DM, Glaser NS. Presenting complaints of pediatric patients with hyperthyroidism. Western Society for Pediatric Research Annual Meeting, 2009. *J Investig Med* 2009;57:112.
8. **Bremer AA**, Stanhope KL, Graham JL, Cummings BP, Havel PJ. Fructose consumption in rhesus macaques as a model for accelerated development of insulin resistance and dyslipidemia. American Diabetes Association 69th Scientific Sessions, 2009. *Diabetes* 2009;58(S1):A435.
9. **Bremer AA**, Auinger P, Byrd RS. Sugar-sweetened beverage intake and its association with insulin resistance. Association for Clinical Research Training/Society for Clinical and Translational Science – Clinical and Translational Research and Education Meeting, 2009.
10. Loomba-Albrecht LA, **Bremer AA**, Styne DM, Glaser NS. High frequency of cardiac and behavioral complaints as presenting symptoms of hyperthyroidism in children. *Horm Res* 2009;72(S3):479.
11. **Bremer AA**, Auinger P, Byrd RS. The differences among ethnic groups in the relationship between insulin resistance-associated parameters with sugar-sweetened beverage intake and physical activity levels. Western Society for Pediatric Research Annual Meeting, 2010. *J Investig Med* 2010;58:164.
12. **Bremer AA**, Byrd RS, Auinger P. Ethnic group differences in insulin resistance-associated parameters due to sugar-sweetened beverage intake and physical activity levels. Association for Clinical Research Training/Society for Clinical and Translational Science – Clinical and Translational Research and Education Meeting, 2010. *Clin Transl Sci* 2010;3:S8.
13. Van Loan MD, Keim NL, Adams SH, Souza E, Woodhouse L, Watson J, Stoffel S, **Bremer AA**, Witbracht M, Thomas AP, Gertz E, Chandler C, Burnett D, Piccolo B, White E, Holguin E, Decker N, Bonnel E. Does Inclusion of Dairy Foods in a Moderate Energy Restricted Diet Enhance Central Fat and Weight Loss in Overweight and Obese Adults? *Experimental Biology*, 2010. *FASEB J* 2010;24:343.2.
14. Cox CL, Stanhope KL, Keim NL, **Bremer AA**, Havel PJ. Consuming fructose-, but not glucose-, sweetened beverages increases fasting concentrations of MCP-1 in older/overweight/obese men and women. The Endocrine Society Annual Meeting, 2010.
15. Menorca R, Stanhope KL, Griffen SC, Nakajima K, Keim NL, Schaefer E, **Bremer AA**, Schwarz JM, Havel PJ. Comparison of the effects of metabolic syndrome risk factors on the changes of TG and cholesterol content in VLDL and LDL subfractions after 10 weeks of fructose consumption in older overweight/obese adults. The Endocrine Society Annual Meeting, 2010.
16. Vink RG, Stanhope KL, **Bremer AA**, Medici V, Chen G, Fong TH, Lee V, Menorca R, Keim NL, Havel PJ. Meal-induced insulin secretion is associated with postprandial triglyceride clearance in subjects consuming glucose, fructose or

- high fructose corn syrup-sweetened beverages. American Diabetes Association 71st Scientific Sessions, 2011. *Diabetes* 2011;60(S1):A463.
17. **Bremer AA**, Stanhope KL, Graham JL, Cummings BP, Havel PJ. Increased inflammation in a rhesus monkey model of dietary fructose-induced metabolic syndrome. American Diabetes Association 71st Scientific Sessions, 2011. *Diabetes* 2011;60(S1):A495.
 18. Mathew RP, Schulman MH, Wilkins S, Saville BR, Want W, **Bremer AA**. Vascular changes in premature pubarche. Pediatric Academic Societies' National Meeting, 2011. *Ped Res E-PAS2011*:3285.6.
 19. Mathew RP, Johnson BD, Wang W, Saville BR, **Bremer AA**. How much is enough? The usefulness of peak cortisol levels in identifying adrenal insufficiency in children undergoing ITT and 1 mcg ACTH tests for short stature. Pediatric Academic Societies' National Meeting, 2011. *Ped Res E-PAS2011*:1400.1.
 20. Brown R, **Bremer A**, Franco W, Driskill C, Brennan K, Vincent W, Colvin K, Guy D, Grisso A, Duke L, Dahir K, Clark A, Slovis B, Perkett E. Improved screening for CFRD achieved through collaboration between pediatric and adult endocrinology and pulmonary providers at the Vanderbilt CF center: pediatric CF program results. North American Cystic Fibrosis Conference 2011. *Pediatr Pulmonol* 2011;46(S34):375.
 21. Slovis B, Guy D, Duke L, Dahir K, Franco W, Brown R, **Bremer A**, Perkett E. Improved screening for CFRD achieved through collaboration between pediatric and adult endocrinology and pulmonary providers at the Vanderbilt CF center: adult CF program results. North American Cystic Fibrosis Conference 2011. *Pediatr Pulmonol* 2011;46(S34):382.
 22. Buckingham B, Slover R, Weinzimer S, DiMeglio L, **Bremer A**, Cantwell M, Xing D, Ruedy K. Effect of a hybrid closed-loop (HCL) on restoring metabolic control at the onset of diabetes. American Diabetes Association 72nd Scientific Sessions, 2012. *Diabetes* 2012;61(S1):A226.
 23. Buckingham B, Chase P, Weinzimer S, Russell W, Dimeglio L, Wilson D, Tamborlane W, Sherr J, Slover R, **Bremer A**, Ruedy K, Kollman C, Cheng P, Beck R. Does Intensive metabolic control at the onset of diabetes followed by one year of sensor augmented pump therapy improve C-peptide levels one year post diagnosis? 6th International Conference on Advanced Technologies & Treatments for Diabetes, 2013. *Diabetes Technol Ther* 2013;15(S1):A137.
 24. Buckingham B, Tamborlane W, Slover R, **Bremer A**, DiMeglio L, Ruedy K, Kollman C, Cheng P, and Beck R for the DirecNet and TrialNet Study Groups. Utility of insulin dose adjusted A1c for remission prediction in recent-onset T1D. American Diabetes Association 73rd Scientific Sessions, 2013. *Diabetes* 2013;62(S1):A711.
 25. Stanhope K, **Bremer A**, Medici V, Keim N, Havel, P. Compared with aspartame, consumption of high fructose corn syrup- and sucrose-sweetened beverages increases triglycerides, cholesterol, non-HDL cholesterol, apolipoprotein-B, and

- uric acid in young men and women. NIH Office of Research on Women's Health Tenth Annual Interdisciplinary Women's Health Research Symposium, 2013. *J Womens Health* 2013;22:898-899.
26. Buckingham BA, Cheng P, Beck RW, Kollman C, Ruedy K, Weinzimer SA, Slover R, **Bremer AA**, Tamborlane WV, and Fuqua J for the DirecNet and TrialNet Study Groups. Relationship of glycemic control and C-peptide levels 2 years following diagnosis of T1D. American Diabetes Association 74th Scientific Sessions, 2014. *Diabetes* 2014;63(S1):A392.
27. DiMeglio LA, Cheng P, Beck RW, Kollman C, Ruedy K, Buckingham BA, Weinzimer SA, Slover R, **Bremer AA**, and Aye T for the DirecNet and TrialNet Study Groups. Early predictors of stimulated C-peptide in persons with T1D. American Diabetes Association 74th Scientific Sessions, 2014. *Diabetes* 2014;63(S1):A392.

INVITED PRESENTATIONS

International

- 2015 International Update on Gestational Diabetes Mellitus: Learnings from the WINGS project
Presentation: Obesity, body mass index, and gestational diabetes mellitus
Chennai, India
- 2017 Indo-U.S. Scientific Meeting: Converging Epidemics of Diabetes and Tuberculosis
Presentation: Indo-U.S. interests in the convergence of TB and diabetes
Rockville, Maryland

National

- 2010 Pediatric Academic Society / Society for Pediatric Research Meeting
Presentation: Sex steroids, insulin resistance, and PCOS
Vancouver, British Columbia, Canada
- 2010 American Academy of Pediatrics' National Conference and Exhibition
Presentation: The metabolic syndrome: what is it?
San Francisco, California
- 2010 Symposium on Recent Discoveries and Novel Mechanisms in Metabolic Regulation and Metabolic Disease
Presentation: A novel nonhuman primate model of diet-induced dyslipidemia and insulin resistance
San Diego, California
- 2011 Symposium on Recent Discoveries and Novel Mechanisms in Metabolic Regulation and Metabolic Disease
Presentation: Inflammation in a primate model of diet-induced insulin resistance and diabetes
Orlando, Florida

- 2012 Symposium on Recent Developments in Metabolic Disease
Presentation: Effects of fish oil supplementation on lipids and insulin
 resistance in a fructose-fed monkey model of metabolic syndrome
San Antonio, Texas
- 2012 National Institute of Diabetes and Digestive and Kidney Diseases
Clinical Research Strategies for Fructose Metabolism
Presentation: Very long-term effects of fructose on non-human primates
National Institutes of Health
Bethesda, Maryland
- 2012 North American Cystic Fibrosis Conference
Moderator: Challenges in diabetes control
Orlando, Florida
- 2013 American Diabetes Association's Scientific Sessions Meeting
Symposium: Moving towards a cure in type 1 diabetes
Presentation: Closed-loop therapy update
Chicago, Illinois
- 2017 15th Meeting of the Diabetes in Pregnancy Study Group of North America
Presentation: Obesity, fetal metabolic programming, and gestational
 diabetes
Washington, D.C.

Regional

- 1999 New England Pharmacologist Meeting
Presentation: Direct identification of the agonist binding domain of the
NK-1 receptor Boston, Massachusetts
- 2000 G Protein-Coupled Receptor Symposium
Poster: Molecular characterization of the substance P/NK-1 receptor
 complex
Boston, Massachusetts
- 2006 Reproductive Endocrinology and Infertility Conference
Presentation: Managing the teenager with polycystic ovary syndrome
San Francisco, California
- 2008 First California Native Youth Diabetes Prevention & Treatment
 Conference
Presentation: Type 2 diabetes in youth
Sacramento, California
- 2008 First California Native Youth Diabetes Prevention & Treatment
 Conference
Presentation: Metabolic syndrome in youth
Sacramento, California

- 2008 Inverness Symposium
Presentation: Role of membrane glycoprotein PC-1 (ENPP1) in insulin resistance
Inverness, California
- 2009 Western Society for Pediatric Research
Presentation: The relationship between insulin resistance-associated metabolic parameters and anthropometric measurements with sugar-sweetened beverage intake and physical activity levels in US adolescents: findings from the 1999-2004 national health and nutrition examination survey
Carmel, California
- 2009 Western Society for Pediatric Research
Presentation: Fructose consumption in rhesus macaques as a model for accelerated development of dyslipidemia and insulin resistance
Carmel, California
- 2010 Western Society for Pediatric Research
Presentation: The differences among ethnic groups in the relationship between insulin resistance-associated parameters with sugar-sweetened beverage intake and physical activity levels
Carmel, California
- 2011 Northern New England Cystic Fibrosis Consortium Meeting
Presentation: Cystic fibrosis-related diabetes mellitus
Burlington, Vermont
- 2011 Update in Acute & Emergency Care Pediatrics Conference
Presentation: Acute diabetes management
Memphis, Tennessee
- 2011 Healthy Weight Kids Coalition
Presentation: Dietary carbohydrates: does the monosaccharide matter?
Offices and Clinics of Doctors of Medicine
Bowling Green, Kentucky
- 2012 Advances and Controversies in Neonatal Medicine
Presentation: Aberrant glucose homeostasis in the newborn
Nashville, Tennessee
- 2012 Bowling Green Independent School District School Board
Presentation: Making our schools healthy
Bowling Green, Kentucky
- 2013 Neonatal Care Update
Presentation: Aberrant glucose homeostasis in the newborn
Franklin, Tennessee

- 2013 Arkansas Obesity Symposium
Presentation: Eating ourselves out of the obesity epidemic
Presentation: Obesity and sugar metabolism: how sweet it is!
Little Rock, Arkansas
- 2018 AAAS Science & Technology Policy Global Health Diplomacy Forum
Presentation: Diabetes & global health: implications for health diplomacy
Washington, DC

Local

- 1998 Boston Area Neuroscience Group Meeting
Poster: Direct interaction of neurokinin A with the NK-1 receptor
Boston, Massachusetts
- 2006 Weight Assessment for Teen and Child Health Conference
Presentation: Polycystic ovary syndrome in the adolescent
Department of Pediatrics, University of California San Francisco
San Francisco, California
- 2008 Mentored Clinical Research Training Program Retreat
Presentation: The evaluation of PC-1 as a biomarker of insulin resistance
University of California, Davis
Sacramento, California
- 2008 Department of Pediatrics Annual Research Colloquium
Presentation: Membrane glycoprotein PC-1 and insulin resistance
University of California, Davis
Sacramento, California
- 2008 UC Davis Center for Nursing Education Pediatric Diabetes Update 2008
Presentation: Pediatric diabetes
University of California, Davis
Sacramento, California
- 2009 UC Davis Department of Pediatrics Grand Rounds
Presentation: Novel insights into the pathogenesis and treatment of
 insulin resistance
University of California, Davis
Sacramento, California
- 2009 Sutter West Pediatrics Grand Rounds
Presentation: Polycystic ovary disease
Sutter Medical Group, Northern California
Davis, California
- 2009 Mentored Clinical Research Training Program Retreat
Presentation: Fructose consumption in rhesus macaques as a model for
 accelerated development of insulin resistance and dyslipidemia
University of California, Davis
Sacramento, California

- 2009 Department of Pediatrics Annual Research Colloquium
Poster: Fructose-fed rhesus monkeys: a model for the pathogenesis and treatment of insulin resistance
University of California, Davis
Sacramento, California
- 2009 UC Davis Clinical and Translational Science Center Annual Retreat
Presentation: Fructose-fed rhesus monkeys: a model for the pathogenesis and treatment of insulin resistance
University of California, Davis
Sacramento, California
- 2010 UC Davis Center for Nursing Education Pediatric Diabetes Update 2010
Presentation: Pediatric diabetes
University of California, Davis
Sacramento, California
- 2010 UC Davis Clinical and Translational Science Center Annual Retreat
Presentation: A rhesus macaque model of diet-induced insulin resistance and dyslipidemia: implications for metabolic syndrome and fetal metabolic programming
University of California, Davis
Sacramento, California
- 2010 Vanderbilt University – Eskind Diabetes Clinic Diabetes Family Day
Presentation: Diabetes emergencies
Vanderbilt University
Nashville, Tennessee
- 2010 Vanderbilt University – Endocrine Grand Rounds
Presentation: Sex steroids, insulin resistance, and the polycystic ovary syndrome
Vanderbilt University
Nashville, Tennessee
- 2011 Children’s Medical Group
Presentation: Pediatric growth hormone deficiency – identification, diagnosis and management
Hermitage, Tennessee
- 2011 Goodlettsville Pediatrics
Presentation: Pediatric growth hormone deficiency – identification, diagnosis and management
Madison, Tennessee
- 2011 Morgan Pediatrics
Presentation: Pediatric growth hormone deficiency – identification, diagnosis and management
Smyrna, Tennessee

- 2012 Vanderbilt University – Endocrine Grand Rounds
Presentation: The differential endocrine effects of carbohydrate metabolism
Vanderbilt University
Nashville, Tennessee
- 2012 Tennessee Pediatrics
Presentation: Pediatric growth hormone deficiency – identification, diagnosis and management
Hendersonville, Tennessee
- 2012 Bowling Green Medical Center Grand Rounds
Presentation: The differential endocrine effects of carbohydrate metabolism
Bowling Green, Kentucky
- 2012 Cystic Fibrosis Education Day
Presentation: How does cystic fibrosis-related diabetes affect lung disease and nutrition in cystic fibrosis
Vanderbilt University
Nashville, Tennessee
- 2012 Cystic Fibrosis Education Day
Presentation: Cystic fibrosis-related diabetes screening and diagnosis: what the new guidelines mean for me or my child
Vanderbilt University
Nashville, Tennessee
- 2012 Pediatrics of Franklin
Presentation: Pediatric growth hormone deficiency – identification, diagnosis and management
Franklin, Tennessee
- 2012 Green Hills Pediatrics
Presentation: Management of short stature in children born small for gestational age
Nashville, Tennessee