

## **Henry Anhalt, DO**

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### **Executive Summary**

- **Seasoned, dynamic, physician-scientist c-suite executive, board certified Pediatric Endocrinologist with career spanning academia, biopharma, medical device, non-profit and start-up environments**
- **Experienced CMO leader with management board experience**
- **Experience in institutionalizing a start-up into a highly matrixed organization**
- **Strong commercial acumen in partnership with business development and due diligence teams**
- **Deep experience in corporate medical affairs function including KOL management, advisory boards, publications and IME**
- **Proven track record of building and developing teams across clinical and industry positions**
- **Participated in 510K and PMA regulatory submissions**
- **Broad knowledge base around digital therapeutics, technology, telemedicine standards and decentralized trials**
- **Part- time practice of pediatric endocrinology**
- **Recognized as global KOL**
- **Serve in highly visible positions in professional (Board of Directors of Endocrine Society) and other non-profit organizations**

## **INDUSTRY EXPERIENCE:**

### **2017-Present *Vice President Medical Affairs Science 37***

- **Core member of leadership team**
- **Lead Physician of Science 37's diabetes, metabolism and endocrinology research unit**
- **Serve as MA liaison to sponsors, advocacy groups and professional organizations**
- **Collaborate with business development and clinical solutions counterparts to generate leads, review and co-develop protocols/synopses for feasibility and operationalization of end to end decentralized clinical trials**
- **Drive clinical trial selection and prioritization in collaboration with sponsors**
- **Work collaboratively with vendors, CROs and sponsors to configure custom solutions for trial execution**
- **Responsible to build Science 37 Physician Network and interface with KOLs to Identify and engage trial investigators throughout lifecycle of project**
- **Provide medical oversight to clinical operations teams to ensure safety, efficiency, and compliance during study execution**
- **Provide regulatory guidance on endpoint selection and validation**
- **Drive relevant change management activities to ensure customer success**
- **Support engineering and tech teams toward development, modification and customization of NORA product**

2015-2017 ***Chief Medical Officer T1D Exchange***: *T1D Exchange is comprised of a clinic registry with 26,000 well-characterized T1D patients, a digital real-world study platform; a unified clinic network of 230 collaborating trial sites, and a bio-sample repository.*

- **Oversaw all aspects of the T1D Exchange's research program and provided clinical leadership to help transform clinical care for patients through a multi-center quality improvement initiative and hypothesis driven real-world data generation**
- **Performed due diligence on the automated insulin landscape to choose awardees for grants totaling \$6MM (Hemsley Family Trust).**
- **Oversaw coordination with T1D Exchange's partner, the Jaeb Center for Health Research, and managed relationships with Contract Research Organizations, industry and foundation sponsors, regulatory and clinical consultants, and key opinion leaders**

### **2014-2015 *Interim Head North America Medical Affairs Medical Diabetes-Sanofi***

- **Responsible for developing and executing NA medical Affairs strategy across broad portfolio of devices and pharmaceuticals in various stages of development**
- **Served on Medical Leadership Team reporting to the CMO of North America Pharmaceuticals**

- Lead and developed team of six direct and fifty field medical indirect reports
- Engaged multiple internal stakeholders in a complex, highly matrixed global organization
- Lead medical due diligence for mergers, acquisitions and in-licensing opportunities
- North American medical lead on design and implementation of a pragmatic trial comparing Toujeo to other basal insulins

2013-2014 ***Senior Medical Director, US Medical Affairs Medical Diabetes-Sanofi***

- Developed, lead and executed NA medical affairs strategy for Toujeo insulin
- Lead core team comprised of regulatory, legal, publication, IME, advisory board, KOL interactions and phase 3B/4 trial activities
- Liaised with global partners to ensure strategic alignment and synergies
- Achieved FDA approval of Toujeo insulin.

2008-2013 ***Chief Medical Officer and Medical Director, Artificial Pancreas Project, Animas Corporation a Johnson and Johnson Company***

- Served on Management Board of Animas Corporation
- Lead the development and execution of global clinical and medical affairs strategies for insulin delivery
- Extensive due diligence activities on algorithms and decision support tools
- Created clinical strategy and lead study design, protocol development and execution of clinical research in all phases of the artificial pancreas project including interactions with key regulatory bodies in the US (FDA) and OUS (project co-funded by Juvenile Diabetes Research Foundation)

***Director, Medical Affairs-Animas Corporation, a Johnson & Johnson Company***

- Developed and maintained scientific relationships with key opinion leaders
- Ensured strategic alignment among functional groups across medical affairs, R&D, clinical research, evidence-based medicine, regulatory and commercial units
- Key decision maker for investigator-initiated study program
- Provided clinical expertise to business development team
- Assisted in developing safety surveillance and Risk Evaluation Mitigation Strategy (REMS) programs in support of product launch
- Served as company spokesperson on medical issues and as medical contact to payers, media and health authorities

## **CLINICAL EXPERIENCE:**

2008-present	<b>Part-time private practice of pediatric endocrinology and diabetes Hackensack, NJ</b>
2004-2008	Director, Division of Pediatric Endocrinology and Diabetes <b>Saint Barnabas Medical Center</b> , Livingston, NJ
1997 - 2004	Director, Division of Pediatric Endocrinology <b>Maimonides Medical Center</b> , Brooklyn, NY
1995 - 1997	Chief, Section of Pediatric Endocrinology <b>The Brooklyn Hospital Center</b> Department of Pediatrics, Brooklyn, NY

## **EXAMINATIONS AND LICENSURE:**

1989	National Board of Osteopathic Medical Examiners Certificate No. 15796
1989	New York State License No. 178591
1991	California State License No. 20A6240
1994	American Osteopathic Board of Pediatrics Certificate No. 0330
1997-2025	American Osteopathic Board of Pediatrics Sub-board Pediatric Endocrinology Certificate No. 0330
1998	New Jersey State License No. 68129
2019	FL License No. OS15830

## **MEMBERSHIP IN PROFESSIONAL SOCIETIES:**

American Diabetes Association  
American Osteopathic Association  
Endocrine Society

## **INVITED CONSULTANT/ROUNDTABLE PARTICIPATION**

2016	<b>Steering Committee and Plenary Speaker: Third International Conference- Regenerative Medicine-“Cellular Horizons-How Science, Technology, Information and Communication Will Impact Society” “The T1D Landscape” <i>The Vatican-Rome</i></b>
2007	<i>KABI</i> International Growth Study-International Board of Advisors
2006	International Advisory board- <i>Tercica</i> Corporation
2006–2008	National Advisory Board-Medtronic-Minimed Corporation National Advisory Board-Eli Lilly and Company

2005-2008	National Advisory Board-Cerner Diabetes Initiative Cerner Corporation National Advisory Board-The Endocrine Society-America Weighs in Initiative
2004-2007	National Advisory Board-National Cooperative Growth Study-Genentech Inc.
2003	Piper Jaffray 16 <sup>th</sup> Annual Health Care Conference- “Emerging Technologies in Diabetes Care” NYC
2002	Closed Meeting-Pan-Pacific Pediatric Endocrinology Meeting Big Island, HI Consultant-13 <sup>th</sup> Annual Novo-Nordisk Human Growth Hormone Symposium. Budapest, Hungary
2001	Consultant - 12 <sup>th</sup> Annual Novo-Nordisk Human Growth Hormone Symposium. Keystone, CO Consultant - Pediatric Advisory Board Meeting at the 31 <sup>st</sup> International Symposium Growth Hormone and Growth Factors in endocrinology and Metabolism, Valletta, Malta. Pharmacia and Upjohn
2000.	Closed Meeting: Growth Hormone Deficiency - Perspectives from the Clinician and Payor Communities. Sponsored by SynerMed, Phoenix, AZ
1998	Consultant - Conference on Adult Growth Hormone Deficiency Sponsored by Genentech Inc., San Francisco, CA
1994 -1995	Consultant-National Board of Osteopathic Medical Examiners

### **VOLUNTEER/SOCIETY ACTIVITIES:**

#### **Endocrine Society:**

<b>2018</b>	<b>Member Board of Directors, physician-in practice seat</b>
<b>2018</b>	<b>Governance Task Force</b>
2014	Chair, Hormone Health Network
<b>2011-2014</b>	Chair, Advocacy and Public Outreach Core Committee
2007-2010	Member, Advocacy and Public Outreach Core Committee
2006-2007	Member, Media Advisory Committee

#### **Pediatric Endocrine Society:**

2010	Chair-Nominating Committee
2008-2011	Member-Nominating Committee
2007	Member-Ad Hoc Public Policy Committee
2005	Member-Task Force on Obesity
2004 - 2006	Chair, Program Committee
2002 - 2006	Member, Program Committee
2008	Member Pediatric Endocrinology Committee, <i>American Association of Clinical Endocrinologists</i>
2006-	Member-Medical and Scientific Advisory Board- <i>CARES Foundation</i>

- 1999 - 2004 Member *AMDEC* Obesity Intervention Study Group  
 Medical Director, Physically Handicapped Children's Program (PHCP)  
 Congenital Hypothyroidism Specialty Center, Maimonides Medical Ctr
- 2016 Member Board of Trustees-*Insulin for Life-USA*
- 2014-16 President, Board of Trustees, *Camp Nejeda Diabetes Camp for Children*,  
 Stillwater, NJ  
 Member Board of Trustees, *Camp Nejeda, Diabetes Camp for Children*,  
 Stillwater, NJ
- 2010-2012 Co-Chair-Scientific Advisory Board *The Helmsley Type 1 Diabetes  
 Program (Co-Chair-Craig Mello)*
1997. Annual Spring Convention Scientific Chair, *American College of  
 Osteopathic Pediatricians* Maui, Hawaii
- 1996 Annual Spring Convention Assistant Chair, *American College of  
 Osteopathic Pediatricians*

### **ACADEMIC APPOINTMENTS**

- 1991-1992 Assistant Clinical Instructor, Department of Pediatrics  
 State University of New York at Stonybrook
- 1995-1999 Clinical Assistant Professor of Pediatrics  
 New York University School of Medicine
- 1996-Present Adjunct Clinical Assistant Professor of Pediatrics,  
 New York College of Osteopathic Medicine
- 1998 – 2004 Co-Chair, Department of Pediatrics, New York College of Osteopathic  
 Medicine of New York Institute of Technology
- 1999-Present Associate Professor of Clinical Pediatrics  
 SUNY, Health Science Center at Brooklyn
- 1999-2004 Director, Pediatric Endocrinology Boro-wide Fellowship Training Program
- 2000-Present Clinical Associate Professor, Department of Pediatrics, St. George's University  
 School of Medicine
- 2005 Pediatric Endocrinology and The Barbara Davis Diabetes Program, University of  
 Colorado, Denver- External reviewer ACGME mock inspection
- 2009 Adjunct Associate Professor of Clinical Pediatrics and Pediatric Endocrinology  
 Touro College of Osteopathic Medicine

### **JOURNAL REVIEWER:**

- 1994 - 1995 Journal of Adolescent Health
- 1999 - present Diabetes Care
- 2002 – present Journal Clinical Endocrinology & Metabolism
- 2002 - present Journal of Pediatric Endocrinology & Metabolism
- 2003- present Journal of American Osteopathic Association
- 2004 Pediatric Research
- 2004-Present Pediatrics

2006	Hormone Research
2007	Acta Paediatrica Scandinavica Future Drugs: Expert Review of Medical Devices
2010	Journal Diabetes Technology and Therapeutics
2016	Endocrine News-Editorial Board

### **AWARDS AND SCHOLARSHIPS:**

1993	Dean's Fellowship, Stanford University School of Medicine
1997-2008	Listed in "How To Find The Best New York Metro Area Doctors" A Castle Connolly Guide, New York
1998-2009	Listed in "The Best Doctors in New York City", by New York Magazine, New York
2000	Physicians Excellence Award – Sephardic Friends of Maimonides Medical Center
2002, 2004	Listed in "Who's Who in America", by Marquis Who's Who Guide, New York
2004	Listed in "Who's Who in American Doctors", by Strathmore Who's Who Guide, New York American Osteopathic Foundation-Aventis "Best Practice Diabetes Award" (\$10,000) Awarded during the American Osteopathic Association Annual Meeting San Francisco
2007	American Osteopathic Foundation-Sanofi-Aventis "Fighting The Metabolic Syndrome Award" (\$10,000) Awarded during the American Osteopathic Association Annual Meeting San Diego Guest of Honor, The Lemonade Foundation First Annual Golf Outing and Dinner to Support the JDRC, Montclair New Jersey (\$78,000 raised)
2009-2011	Listed in "NY Metro's Top Doctors" A Castle Connolly Guide, New York Listed in "Inside New Jersey Top Doctors" A Castle Connolly Guide, New York
2010	Listed in "Best Doctors in America"

### **CLINICAL RESEARCH:**

2006-2008	Monoclonal Antibody A Phase 2/3, Randomized, Double-Blind, Multi- Center, Multinational, 4-Arm, Controlled, Dose-Ranging Study to Evaluate the Potential Therapeutic Activity and Safety of MGA031, a Humanized, FcR Non-Binding, Anti-CD3 Monoclonal Antibody, in Patients with Recent-Onset Type 1 Diabetes-Principal Investigator  A Four-Year Open-label Multi-Center Randomized Two-arm Study of Genotropin In Idiopathic Short Stature patients: Comparing An Individualized, Target-Driven Treatment Regimen To Standard Dosing Of Genotropin. National Principal Investigator
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- LG A Phase III, Multi-centre, Randomised, Parallel-Group Study of Safety and Efficacy of the LB03002 a New Sustained Release Formulation of Human Recombinant Growth Hormone as Compared to Standard Daily Therapy with Genotropin® in Treatment Naive Children with Growth Failure due to Insufficient Secretion of Endogenous Growth Hormone. Principal Investigator
- 2004-2007 Recombinant Human Insulin-Like Growth Factor-1 (Rhigf-1) Treatment of Prepubertal Children With Growth Failure Associated With Primary Igf-deficiency: A Phase 3, Randomized, Open-Label, Observation-Controlled, Multicenter, Parallel-Dose Comparison Trial. MS-301 Tercica Inc.
- 2002-2004 Basal/Bolus Therapy with Insulin Aspart (NovoLog®) versus Regular Human Insulin (Novolin® R) or Insulin Lispro (Humalog®) in Combination with NPH: An Open-Label, Randomized, Parallel Group, Multicenter Study in Children and Adolescents with Type 1 Diabetes. ANA 2126 Novo-Nordisk Pharmaceuticals, Inc.
- 2001 - 2008 The Genetics and Neuroendocrinology of Short Stature International Study (Genesis) Post Marketing Observational Study. Eli Lilly and Company
- 2001 - 2003 A Randomized, Cross-Over Efficacy Trial of The Injex Injector in Comparison to Needle Syringe in the Management of Pediatric Patients With Type I Diabetes Mellitus. Equidyne Systems Inc.
- 2000 - 2008 Serono Growth Registry Post Marketing Observational Study.
- 2000 - 2002 “An Open Label, Crossover, Patient/Parent Preference Trial of Norditropin® SimpleXx™ vs. Humatrope®, Nutropin AQ® and Genotropin® in Children with Growth Hormone Deficiency” - HGH-2060 Novo – Nordisk Pharmaceuticals, Inc.
- “Concentration Control Trial of Norditropin® - SimpleXx™ in Children with Growth Hormone Deficiency: A Two Year, Open-Label, Randomized, Multicenter Trial. – HGH 2051 Novo-Nordisk Pharmaceuticals, Inc.
- 1999 - 2001 Serum TNF- $\alpha$  and Anthropometric Correlates in Obese Children. (Sponsor-Maimonides Research and Development Foundation - \$10,000)
- 1998 - 2001 A Prospective Analysis of Bone Mineral Density, Bone Mineral Content and Bone Mineral Apparent Density in Ultra-Orthodox Jewish Boys Age 15-19 (Sponsors - Eli Lilly & Co. - \$10,000, Genentech - \$10,000 Maimonides Research and Development Foundation - \$13,500) (Principal Investigator)
- 1998 - 1999 A Collaborative Study of the Relationship of Serum Growth Factors and Growth Hormone Therapy (Pharmacia & Upjohn) (Principal Investigator)



- 1997 - 1999 Effect of Growth Hormone Replacement Therapy in childhood Onset Growth Hormone Deficient Patients Previously Treated to Final Height Study, (Hypopituitary Developmental Outcome Study) B9R-EW-GDDY (Eli Lilly & Co.) (Principal Investigator)
- 1997 - 1999 Phase III Multi-Center, Double Blind, Randomized Trial To Evaluate The Efficacy Of Genotropin (Somatropin DNA For Injection) During The Transition Of Growth Hormone Deficient Patients From Adolescence To Adulthood (Pharmacia and Upjohn Multi-Center) (Principal Investigator)
- 1997 - 2008 Kabi International Growth Study (Pharmacia and Upjohn) (Principal Investigator)
- 1995 – 2001 Diabetes Prevention Trial-1 Affiliate. (NIH) (Principal Investigator)
- 1995 - 2008 National Cooperative Growth Study, (Genentech) (Principal Investigator)

**ABSTRACTS:**

- 1993 SE Gargosky, KF Wilson, **H Anhalt**, M Mac Gillivray, RG Rosenfeld. Is Immunoreactive IGFBP-3 In the Urine An Indicator of Growth Hormone Deficiency? Fourth Joint LWPES/ESPE meeting, San Francisco, California, June 1993
- 1994 **H Anhalt**, B Parker, RG Rosenfeld. Congenital Spinal Dysostosis In Two Generations: Evidence For A New Dominantly Inherited Spinal Deformity. WSPR meeting, Carmel, California, February 1994
- KL Eckert, DM Wilson, LK Bachrach, **H Anhalt**, RL Habiby, RC Olney, RL Hintz, EK Neely.: Comparison Of A Rapid, Single Sample Subcutaneous GnRH Stimulation Test With Standard IV GnRH Testing In The Evaluation Of Precocious Puberty. APS/SPR meeting, Seattle, Washington May 1994
- H Anhalt**, DM Wilson, LK Bachrach, RC Olney, KL Eckert, RL Habiby, RL Hintz, EK Neely.: A Prospective Randomized Trial Of Growth Response to Two Dosages Of rhGH. APS/SPR meeting, Seattle, Washington May, 1994
- 1995 **H Anhalt**, RC Olney, HM Pham, DM Wilson, EK Neely: Identification and Regulation of Insulin-Like Growth Factor Binding Proteins in Malignant Melanoma Cell Lines. WSPR meeting, Carmel, California February 1995
- H Anhalt**, RC Olney, HM Pham, DM Wilson, EK Neely: Identification and Regulation of Insulin-Like Growth Factor Binding Proteins in Malignant Melanoma Cell Lines: Role of Cytokines. Endocrine Society, Washington DC, June 1995
- 1998 N Khateeb, M Roslin, **H Anhalt**, Significant Improvement In Hba1c In A Morbidly Obese NIDDM Patient After Gastric Bypass Surgery Despite Relatively Small Weight Loss. Poster presented at The Endocrine Society, New Orleans LA,

June 1998

T Wolff, T Rosner, N Khan, N Khateeb, M Ocampo, D Chin, **H Anhalt**:  
Reported Parental Heights Do Not Differ from Actual Heights in an Outpatient  
Pediatric Endocrine Clinic in Brooklyn. Oral Presentation at Eastern Society for  
Pediatric Research, November 1998

1999 M Misra, N Khan, N Khateeb, A Taub, **H Anhalt**, D Chin: Childhood Obesity  
and its Co-Morbidities. Poster presented at SPR, Annual Meeting, May 1-5,  
1999, San Francisco, CA

N Khateeb, D Chin, A Silverberg, N Khan, **H Anhalt**: Reduced Bone Mineral  
Density in Adolescent Girls of an Orthodox Jewish Community in Brooklyn  
Poster presented at Endocrine Society, June 1999, San Diego, CA

2000 “Physiological and Anthropometric Correlates of TNF- $\alpha$  in Morbidly Obese  
Adolescent Patients” Poster Presented at the APA/APS/SPR Annual Meeting,  
Boston, MA, May 2000  
“Reduced Spinal Bone Mineral Density in Adolescent boys of an Orthodox  
Jewish Community in Brooklyn” Oral Presentation at the ICE Meeting, Sydney  
Australia, October 2000

2001 “The Relationship Between Tumor Necrosis System Activity and Dyslipidemia  
and Insulin Resisitance in Children” Poster Presentation, Society for Pediatric  
Research Meeting Baltimore MD, April 2001

“The Relationship Between Tumor Necrosis- $\alpha$  and Tumor Necrosis Factor- $\alpha$   
Soluble Receptor System Activity and Dyslipidemia and Insulin Resisitance in  
Children” Poster presentation, The 6<sup>th</sup> Joint Meeting of ESPE/LWPES, Montreal  
Canada, July 2001

2002 R. Walia, N Winer, **H. Anhalt**, V. Umpaichitra, S. Castells “Twenty-Four Hour  
Blood Pressures in Minority Children with Type 2 Diabetes Mellitus and Obesity”  
Poster presentation, Endocrinology Society Meeting, San Francisco, June 2002

2003. N. A.V. Matthews, J. Canas, S. Ten, **H. Anhalt**, A. Gupta, A. Kamishlian “Pineal  
Germinoma in a 3-Year-Old 47, XXY Male as Cause of Precocious Puberty”  
Poster presentation, Pediatric Academic Societies’ Annual Meeting Seattle  
Washington, April 2003

S. Ten, N. Ramchandani, I. Noh, A. Kukreja, A. Bhangoo, M. Vogiatzi,  
**H. Anhalt**, M. New, N. Maclaren “Low Levels of Hormonal Binding Proteins in  
Obese Patients Result from Insulin Resistance” Poster presentation, American  
Diabetes Association Scientific Sessions New Orleans, June 2003

2004 Ashutosh Gupta, Svetlana B. Ten, Golali Nejati, Neven Pesa, Amrit P. S.  
Bhangoo, Irina Kazachkova, Nicole A. V. Matthews, **H. Anhalt**. “Vitamin D

Deficiency in Obese Children” Platform presentation ESPR, Poster Presentation SPR/PAS/LWPES San Francisco, CA

Ashutosh Gupta, Neven Pesa, **H. Anhalt**. “A Randomized, Cross-Over Efficacy Trial of the Injex Jet Injector in Comparison to Needle Syringe in the Management of Pediatric Patients with Type 1 Diabetes Mellitus” Poster Presentation SPR/PAS/LWPES San Francisco, CA

John Ching, Neven Pesa, Golali Nejati, Ashutosh Gupta, Nicole Matthews, **H. Anhalt**, Svetlana Ten. “New Model for Insulin Initiation in Type I Diabetes” Poster Presentation SPR/PAS/LWPES San Francisco, CA

Ashutosh Gupta, Svetlana Ten, **H. Anhalt** “Hypothyroidism Due to Autoimmune Thyroiditis in Very Young Children”. ESPR /PAS/LWPES poster presentation San Francisco, CA.

Nicole A.V Matthews, Golali Nejati, Irina Kazachkova, Shivinder Narwal, Graciela Wetzler, **H. Anhalt** and Svetlana Ten. “Fatty Liver is a Frequent Complication of Obesity in Children Referred to the Kids Weight Down Program”. Platform presentation ESPR, poster presentation PAS/LWPES San Francisco,CA.

Gilberto Bultron, Amrit Bhangoo, Jane Fong, Prema Ramaswamy, Juan Kupferman, Steven Pavlakis, **H. Anhalt**, Akila Venkataraman and Svetlana Ten. “Graves’ Disease, Pretibial Myxedema and Immune Mediated Neuropathy in a 17-year-old Chinese girl with Elevated Anti-GAD<sub>65</sub> Antibodies”. ESPR/PAS/LWPES poster presentation San Francisco,CA.

Amrit Bhangoo, Golali Nejati, Lisa Altshuler, Susan Beren, Chaya Silverstein, Debbie Desantos , **H. Anhalt** and Svetlana Ten. “Insulin and TSH levels can predict short-term response to behavioral intervention in obese children.” Platform presentation ESPR, PAS/LWPES poster presentation San Francisco,CA.

John Ching, Amrit Bhangoo , Nasser Golestaneh , **H. Anhalt** and Svetlana Ten. “Two sisters with hypokalemia, fatigue and hirsutism.” ESPR /PAS/LWPES poster presentation San Francisco,CA.

John Ching, Svetlana Ten, **H. Anhalt**. “Fatal Cerebral Aneurysm Masquerading as New Onset Diabetes in A Child with Turner Syndrome” ESPR /PAS/LWPES poster presentation San Francisco,CA.

Ashutosh Gupta, Nicole Matthews, Jane Fong, **H. Anhalt** and Svetlana Ten. Efficacy of Insulin Glargine on the Outcome of Mild to Moderate Diabetic Ketoacidosis in Children with New Onset Diabetes Mellitus. Poster presentation at the Endocrine Society's 86th Annual Meeting 2004 New Orleans.

Ashutosh Gupta, Amrit Bhangoo, **H. Anhalt**, Noel Maclaren and Svetlana Ten. Hypercortocotrocinemia and pituitary adenoma/hyperplasia in patients with adrenal insufficiency. Poster presentation at the Endocrine Society's 86th Annual Meeting 2004 New Orleans

Svetlana Ten, Nicole Matthews, **H. Anhalt** and Noel K Maclaren. Effect of Metformin and Rosiglitazone in a Prepubertal Boy with Alstrom Syndrome. Poster presentation at the Endocrine Society's 86th Annual Meeting New Orleans.

S Ten; N Matthews; A Bhangoo; G Nejatii; S Narwal; G Wetzler; G Tomer; **H Anhalt** :Steatohepatitis in children predates the appearance of insulin resistance, associated with low leptin level for the degree of obesity and high TG/HDL ratios. Obesity: Molecular Physiology and Genetics of the Control of Body Weight Keystone Symposia, Keystone Colorado

S Ten; N Matthews; A Bhangoo; G Nejatii; S Narwal; G Wetzler; G Tomer; **H Anhalt**: Steatohepatitis in children predates the appearance of insulin resistance, associated with low leptin level for the degree of obesity and high TG/HDL ratios 2<sup>nd</sup> Annual World Congress on The Insulin Resistance Syndrome. Oral presentation. **First Prize Oral Presentation**

2005

Atherosclerotic Risk in Children With Steatohepatitis And Normal Glucose Tolerance Is Similar To Risk In Patients With Type 2 DM. 1Amrit Bhangoo, Natalia Markevich, Zoya Pisakov, Rena Lytrivi, **H. Anhalt**, Enrico Ascher and Svetlana Ten. Poster LWPES, Lyon, France 2005; Metabolic Diseases World Summit 2005.

Graves' Disease and Dysmetabolic Syndrome Masquerading as Pseudoacromegaly. Saumeel Mehta, Irina Kazachkova, **H. Anhalt** and Svetlana Ten. Metabolic Diseases World Summit

Nicole A.V. Matthews, Amrit Bhangoo, **H. Anhalt**, Svetlana Ten: Atypical Presentation of McCune-Albright Syndrome in a Prepubertal Male: Macroorchidism, Short Stature and Hyperphosphatasia. Poster Presentation at PAS/SPR Meeting Washington, DC , Poster LWPES Lyon, France

Saumeel R. Mehta, Irina Kazachkova, **H. Anhalt**, Svetlana Ten: Insulin Resistance During Puberty Induces Ovarian Hyperandrogenism, Case Report. Abstract at PAS/SPR Meeting Washington, DC

Irina Kazachkova, Amrit Bhangoo, Ashutosh Gupta, **H. Anhalt**, Svetlana Ten. Resolution of Pituitary Hyperplasia in Patient with Adrenal Insufficiency. Abstract at PAS/SPR Meeting Washington, DC

Susan E. Beren, Shayna Oppen, Lisa Altshuler, **H. Anhalt**, Martin Schloss, Deborah De Santis-Moniaci, Steven Shelov The Effectiveness of an Eating Disorders Prevention Program for Yeshiva Students. Poster Presentation at PAS/SPR Meeting Washington, DC

Lisa Altshuler, Deborah De Santis-Moniaci, Susan Beren, Golali Nejati, **H Anhalt**, Svetlana Ten. Efficacy of Family Based Pediatric Obesity Treatment in an Urban Multicultural Setting. Poster Presentation at PAS/SPR Meeting Washington, DC.

Nicole A.V. Matthews, Francoise Audran, Julia Ordonez, **H. Anhalt**, Svetlana Ten, Charles Sultan. Complete Androgen Insensitivity Syndrome Due to Novel Mutation in Intron 1 of the Androgen Receptor: A Clinical Report. Poster Symposium at PAS/SPR Meeting Washington, DC. Poster LPWES Lyon, France

Amrit Bhangoo, J. Larry Jameson, Wen-Xia Gu, Nasarullah Khan, Steven Pavlakis, **H. Anhalt**, Svetlana Ten. Adrenal Insufficiency in 2 Sisters Caused by a Mutation in Steroidogenic Acute Regulatory Protein. Poster Symposium at PAS/SPR Meeting Washington, DC.

Amrit Bhangoo, J. Larry Jameson, Wen-Xia Gu, Anna Vinograd, Steven Pavlakis, **H. Anhalt**, Svetlana Ten. Sex Reversal Secondary to Congenital Lipoid Adrenal Hyperplasia (CLAH) Caused by a Novel Mutation in Steroidogenic Acute Regulatory (StAR) Protein. Poster Symposium at PAS/SPR Meeting Washington, DC.

Radhika Purushothaman, Neesha Ramchandani, **H. Anhalt**, Svetlana Ten. Prevalence and Clinical Features of Double Diabetes in Children. Poster Presentation at PAS/SPR Meeting Washington, DC.

Amrit Bhangoo, Ashutosh Gupta, **H. Anhalt**, Svetlana Ten. Ring 18 Chromosome Predisposes to the Development of Autoimmune Polyglandular Syndrome Type 2 (APS2). Poster Presentation The 87<sup>th</sup> Annual Endocrine Society San Diego

2006 Neesha Ramchandani, Noel Maclaren, **H. Anhalt**, Svetlana Ten Basal Insulin Requirements on CSII during the First 12 Months after Diagnosis of Type 1-Diabetes-Poster Presentation at the ADA-Washington, DC

Sunil K. Sinha, Amrit P. Bhangoo, Gabriel Kupchik, **H. Anhalt**, Svetlana Ten. An Intronic Variation in the GNAS1 Gene of a 19 Year Old Boy with Mental Retardation, Seizure Disorder, Short Stature, Hypothyroidism, Gynecomastia, Elevated PTH with Normal Calcium (Ca) and Phosphorus-Poster Presentation SPR/PAS/LWPES San Francisco, CA

Shalaka Indulkar, Radhika Purushothaman, Viral Gala, Amrit Bhangoo, Sunil Sinha, Margarita Smotkin, Irina Kazachkova, **H. Anhalt**, Michael Marcus, Svetlana Ten. Apnea Hypopnea Index (AHI) Is a Marker of the Sleep Disturbance in Children with Obesity. Poster Presentation SPR/PAS/LWPES San Francisco, CA

Radhika Purushothaman, Viral Gala, Meharchand Oad, Amrit Bhangoo, Sunil Sinha, Margarita Smotkin-Tangorra, Irina Kazachkova, Jessica Hileman, Deborah DeSantis, **H. Anhalt**, Lisa Altshuler, Svetlana Ten. Effect of Metformin and Dietary/Lifestyle Therapy on Metabolic Risk Factors in Overweight Children with Dyslipidemia. Poster Presentation SPR/PAS/LWPES San Francisco, CA

Amrit P.S. Bhangoo, Chad S. Hunter, Jesse J. Savage, **H. Anhalt**, Svetlana Ten, Simon J. Rhodes. A Novel LHX3 Mutation Presenting as Combined Pituitary

Hormonal Deficiency (CPHD). Poster Presentation SPR/PAS/LWPES San Francisco, CA

Alan Parsa, Amrit Bhangoo, Gabriel Kupchick, **H. Anhalt**, Svetlana Ten. A Case of Mosaic Turner's Syndrome Associated with Idiopathic Diabetes Insipidus  
Poster Presentation SPR/PAS/LWPES San Francisco, CA

Margarita Smotkin-Tangorra, Radhika Purushothaman, Ashutosh Gupta, Golali Nejati, Sunil Sinha, **H. Anhalt**, Svetlana Ten Prevalence of Vitamin D Deficiency in Obese Children and Adolescents: Poster Symposium SPR/PAS/LWPES San Francisco, CA

A Novel Single Nucleotide Deletion in the LHX3 Neuroendocrine Transcription Factor Gene Associated with Combined Pituitary Hormonal Deficiency  
Chad Hunter, Amrit Bhangoo, Jesse Savage, **H. Anhalt**, Steven Pavlakis, Emily Walvoord, Svetlana Ten, Simon Rhodes: Oral Presentation The Endocrine Society

Spontaneous and Uneventful Pregnancies in a Turner Mosaic Female. Sunil Sinha, Amrit Bhangoo, **H. Anhalt** Svetlana Ten. Poster Presentation The Endocrine Society

Severe Mandibuloacral dysplasia (MAD) Associated Progeroid Syndrome and Lipodystrophy Due to Arg527Cys Homozygous LMNA Mutation. Irina Kazachkova, Gabriel Kupchick, **H. Anhalt**, Svetlana Ten, Anil Agarawal, Abhimanhyu Garg. Poster Presentation at The Endocrine Society.

Defining Responsiveness (Res) to Growth Hormone (GH) Therapy: First Year Growth Response Data from Genentech's National Cooperative Growth Study (NCGS) Ron G. Rosenfeld, **H. Anhalt**, James Frane, Barbara Lippe, Bert Bakker. Poster Presentation at the Growth Hormone Research Society Meeting Kobe, Japan

Baseline Characteristics and Pilot Outcomes of Children and Parents Enrolling in Healthy Life: A 6-Month, Self-Pay, Multidisciplinary Treatment Program for Long-Term Weight Management and Lifestyle Change  
Debra Gill, **H. Anhalt**, Sean Nealy Poster Presentation NAASO Meeting Boston, MA

2007 Baseline Characteristics and Pilot Outcomes of Children and Parents Enrolling in Healthy Life: A 6-Month, Self-Pay, Multidisciplinary Treatment Program for Long-Term Weight Management and Lifestyle Change **H. Anhalt**, Debra Gill, Sean Nealy-Oral Presentation Israeli Medical Association, Jerusalem Israel

"Insulin Pump Therapy from The Time of Diagnosis Of Type 1 Diabetes" **H. Anhalt**, Neesha Ramchandani, Svetlana Ten-Oral Presentation Israeli Medical Association, Jerusalem Israel

Success in Healthy LIFE® Not Reflected on The Scale: Children Gain Muscle, Lose Fat, Get More Fit, and Make Healthier Choices Debra Shapiro Gill, Sean Nealy, Marisa Stadtmauer, **H. Anhalt** Poster Presentation at NAASO 2007

2008 Radioiodine Ablation as Successful First Line Therapy- A Three-year, One Institution Experience. Chayim Y. Newmark, Letty G. Lutzker, Ellen Oppenheimer, **H. Anhalt** Poster Presentation PAS/Asian Society for Pediatric Research, Honolulu HI

Familial Turner Syndrome Due to a Heritable Xp Deletion. Sreenivas Dutt Gunturu, Radhika Purushothaman, **H. Anhalt**, Svetlana Ten, Harry Ostrer Poster Presentation PAS/Asian Society for Pediatric Research, Honolulu HI

2011 Quantitative analysis of bolus delivery speed amongst insulin infusion pumps. **H Anhalt**, J Cappuro, L Jahn Oral presentation ATTD London, UK

Measures of Oxidative Stress and Antioxidant Capacity in Plasma Samples from Patients with Type 2 Diabetes Before and After Insulin Pump Therapy **H Anhalt**, A Treweeke, S Setford, J Frias, IL. Megson. Poster presentation ADA San Diego, CA

Continuous Subcutaneous Insulin Infusion (CSII) in Type 2 Diabetes: Reductions in A1C, Mean Glucose, and Variability. D Rodbard , **H Anhalt**, T Bailey, B Bode, R Brunelle, S Edelman, J Frias, M Kipnes Poster presentation ADA San Diego, CA

Continuous Subcutaneous Insulin Infusion (CSII) in Type 2 Diabetes: Reductions in A1C, Mean Glucose, and Variability. **H Anhalt**, D Rodbard T Bailey, B Bode, R Brunelle, S Edelman, J Frias, M Kipnes Poster presentation EASD, Lisbon, Portugal

2012 Refining Clinical Study Design Using In Silico Simulations: The Path To Commercialization. **H. Anhalt**, DA Finan, Linda Mackowiak, Thomas W. McCann, Jr., Ramakrishna Venugopalan. Poster Presentation ATTD, Barcelona Spain

Comparative Dose To Dose Variability Analysis Of Durable And Disposable Infusion Pumps. L. Jahn1, J. Capurrol, **H. Anhalt** Oral presentation ATTD, Barcelona Spain

### **PRESENTATIONS(Abridged):**

1992 Nassau Pediatric Society Annual Residents Night: “Delayed Separation of The Umbilical Cord: A Case Presentation and Survey of Practicing Pediatricians.”

1994 Invited Speaker: “Growth Promoting Strategies in Turner Syndrome. Bay Area Turner Society.” Kaiser Permanente Hospital, Oakland, California, March 1994

- 1995 Invited Speaker: “Practical Endocrinology for the Primary Care Provider.”  
American College of Osteopathic Pediatricians Annual Spring Convention.”  
Monterey, California, May 1995
- 1995 Invited Speaker: “Rickets”  
Hospital for Joint Diseases, NYC, NY, November 1995
- Grand Rounds Speaker: “Pediatric Endocrinology for Primary Care Physicians”  
The Brooklyn Hospital Center, Brooklyn, NY, December 1995
- Grand Rounds Speaker: “Update on Pediatric Diabetes Management”  
St. Mary’s Medical Center, Brooklyn, NY, April 1996
- Grand Rounds Speaker: “Pediatric Endocrine Enigmas”  
St. Vincent’s Hospital. Staten Island, NY, August 1996
- Invited Speaker: “Pubertal Disorders”  
Grand Rounds, Kingsbrook Jewish Center, Brooklyn, NY, October
- 1997 Grand Rounds Speaker: “Ambiguous Genitalia”  
Winthrop University Hospital, Mineola, NY, January 1997
- Grand Rounds Speaker: “Diagnosis and Management of the Intersex Child”  
Woodhull Hospital and Medical Center, Brooklyn, NY, April 1997
- Grand Rounds Speaker: “The Epidemic of the 21st Century-Childhood Obesity,  
Current Thoughts and Management” Peninsula General Hospital, Far Rockaway,  
NY, May 1997
- Invited Speaker: “Pediatric Obesity as a Cause of Premature Aging” American  
Academy of Anti-Aging Medicine, Las Vegas, Nevada, December 1997
- 1998 Invited Speaker: “Pediatric Growth Disorders”, 1998 Atlantic Regional  
Osteopathic Convention, Atlantic City, New Jersey, March 1998
- Invited Speaker: “Thyroid Disorders”, “Parathyroid Disorders”, “Adrenal &  
Gonadal Disorders”, “Diabetes Mellitus”, “Growth Retardation”, Osler Institute,  
Pediatric Review Course, Philadelphia, PA, June 1998
- Invited Speaker, Endocrine Grand Rounds: “Growth Hormone Deficiency in  
Adults,” Georgetown University Children’s Medical Center, Washington, DC,  
September 1998
- 1999 Invited Speaker, Endocrine Grand Rounds: “Growth Hormone Deficiency,  
Neither a Short Story or a Tall Tale,” Brown University and Rhode Island  
Hospital, Providence, Rhode Island, January 1999



Invited Speaker: “Pediatric Obesity,” Metropolitan Endocrine Nursing Association, Mount Snow, Vermont, January 1999

Invited Speaker, Pediatric Grand Rounds: “Ambiguous Genitalia,” Eastern Virginia Medical School, Norfolk, Virginia, March 1999

Invited Speaker, Pediatric Grand Rounds: “Pediatric Obesity, Epidemic of the 20<sup>th</sup> Century,” New York University Medical School, NYC, April 1999

Invited Speaker, 50<sup>th</sup> Annual Meeting of the Michigan Chapter of the American Academy of Pediatrics, “Helping Obese Children Lead Healthier Lives: Programs that Work,” Beverly Hills, Michigan, August 1999

Appearance on Pakistani Cable T.V.: “Childhood Obesity,” “Juvenile Diabetes,” “Bone Health in Children,” filmed at Maimonides Medical Center, Brooklyn, New York, September 1999

2000 Invited Speaker, “The Epidemic of 21<sup>st</sup> Century Pediatric Obesity” University of the East – Ramon Magsaysay Memorial Medical Center Las Vegas, NV, Aug. 2000

2001 Grand Rounds Speaker: “Childhood Obesity” Winthrop University Hospital, Mineola, NY, Jan. 2001

Invited Speaker, “Pediatric Obesity-Is all Hope Lost?” Columbia University, Pediatric Endocrinology Journal Club, NYC, NY

Movie-“Medical Mysteries of Pediatric Obesity” The Discovery Chanel

2009 Invited Speaker, “Type II Diabetes” Arizona Osteopathic Medical Association, Annual Meeting, Tempe, AZ

Invited Speaker, “Obesity” Arizona Osteopathic Medical Association, Annual Meeting, Tempe, AZ

2003 Invited Speaker, “TNF- $\alpha$  in Obese Children” Karolinska Institute Postgraduate Course in Pediatric Endocrinology, Stockholm Sweden

Invited Speaker, “The Genetic Heterogeneity of Obesity” Karolinska Institute Postgraduate Course in Pediatric Endocrinology, Stockholm Sweden

Grand Rounds Speaker, “Biblical and Historical References to Endocrinology”

Maimonides Medical Center

- 2004 Invited Speaker, “Turner Syndrome”  
American College of Osteopathic Pediatricians, Boston, MA
- Invited Speaker, “Thyroid and Pubertal Disorders”  
American College of Osteopathic Pediatricians, Boston, MA
- Keynote Speaker, “Obesity and Metabolic Syndrome in Children and Adults with Turner Syndrome” Turner Syndrome Society Of the United States Annual Meeting Seattle, Washington
- Invited Speaker, “Continuous Glucose Monitoring Usage in Children and Its Utility in Self Management” American Association of Diabetes Educators Annual Meeting, Indianapolis, Indiana
- 2005 Invited Speaker NY State Osteopathic Medical Society CME Program-  
“Metabolic Syndrome”
- Grand Rounds Speaker “Obesity-The Epidemic of the 21<sup>st</sup> Century”  
UMDNJ New Jersey
- Invited Speaker, “Diagnosis and Treatment of Type II Diabetes in Children”  
Arizona Osteopathic Medical Association Scottsdale Arizona
- Invited Speaker, “Prevention of Obesity in Children”  
Arizona Osteopathic Medical Association Scottsdale Arizona
- Keynote Speaker, “Obesity and Metabolic Syndrome in Children and Adults with Turner Syndrome” Turner Syndrome Society of the United States Annual Meeting Atlanta, Georgia
- 2006 Invited Speaker-Annual Diabetes Conference Ukrainian Center for Endocrine Surgery and Transplantation of Endocrine Tissue-“Type 2 Diabetes and Children”  
Kiev, Ukraine
- Invited Speaker-Annual Diabetes Conference Belarussian Medical Academy for Postgraduate Education-“Type 2 Diabetes and Children” Minsk, Belarus
- 2007 Invited Keynote Speaker, “Phenotypic features associated with mutations in steroidogenic acute regulatory protein” Southern New England Pediatric Endocrine Society Annual Meeting Hartford, CT
- 2017 Invited Keynote Speaker, Keynote Address: “From Data To Change”  
CarbDM Chabot College, Hayward, CA

**PUBLICATIONS (ARTICLES):**

- 1989 RV Marino, K Bomze, TO Scholl, **H Anhalt**: Nursing Bottle Caries: Characteristics of Children at Risk. Clin. Pediatr. 1989 March; (3): 129-131.
- 1992 **H Anhalt**, RV Marino, W Rosenfeld: Delayed Separation of The Umbilical Cord: A Case Presentation and Survey of Practicing Pediatricians. AJDC, 1992 Dec: 146 (12): 1413-1414
- 1995 **H Anhalt**, B Parker, DV Paranjpe, EK Neely, RG Rosenfeld: A Novel Spinal Dysplasia in Two Generations. American Journal of Medical Genetics 1995; 56:90-93
- RC Olney, **H Anhalt**, EK Neely, DM Wilson: A Quantitative Assay for IGF-1 and IGFBP mRNAs: IGFBP Production in Human Malignant Melanoma Cells. Journal Molecular and Cellular Endocrinology, 1995 April: 110 (1-2): 213-223
- 1996 KL Eckert, DM Wilson, LK Bachrach, **H Anhalt**, RL Habiby, RC Olney, RL Hintz, EK Neely: Comparison Of A Rapid, Single Sample Subcutaneous GnRH Stimulation Test With Standard IV GnRH Testing In The Evaluation Of Precocious Puberty. Pediatrics 1996; 97(4): 517-519
- H Anhalt**, K Eckert, EK Neely: Type I Diabetes Mellitus, Ketoacidosis and Thromboembolism in an Adolescent with Prader-Willi Syndrome (Acta Pediatrics, 1996; 85(4): 516)
- Anhalt H**, Neely EK, Hintz RL: Ambiguous Genitalia (Pediatric Review, 1996 June; (6): 213-20)
- 1999 NI Khateeb, MS Roslin, D Chin, N Khan, **H Anhalt**: Significant Improvement In Hba1c in a Morbidly Obese Type 2 Diabetic Patient after Gastric Bypass Surgery Despite Relatively Small Weight Loss (Diabetes Care, 1999 April; (4): 651)
- 2000 Rosenfeld R, Allen DB, MacGillivray MH, Alter C, Saenger P, **Anhalt H**, Hintz R, Katz HP: Growth Hormone Use in Pediatric Growth Hormone Deficiency & Other Pediatric Growth Disorders (The American Journal of Managed Care, 2000 Sept; (6) No.15: S805-16)
- W Taha, Ido Paz-Priel, **H Anhalt**: Are Tumor Necrosis Factor- $\alpha$  Receptor 2 Levels Associated with Age (Diabetes Care, 2000 Nov; (11): 1713-5)
- Anhalt H**, Chin D: Endocrine Treatments for Short Stature (Pediatric Annals, 2000 Sept; (9): 576-81)
- 2001 Taha W, Chin D, Silverberg AI, Lashiker L, Khateeb N, **Anhalt H**: Reduced Spinal Bone Mineral Density in Adolescents of an Ultra-Orthodox Jewish Community in Brooklyn (Pediatrics, 2001 May; 107(5): E79)

- W Taha, Y Ahmed, TW AvRuskin, **H Anhalt** The Relationship Between Serum TNF- $\alpha$  and Anthropometric Measurements in Obese Children (Pediatric Research, 2001; 49(2): 101A #568)
- 2003 A Gupta, A Kamishlian, N Matthews, S Ten, **H Anhalt**: Hypocalcemia, Rickets and Seizures in a 6-Week-Old Infant (Pediatric Research, 2003 April; 53(4): 156A #889)
- A Gupta, N Pesa, **H Anhalt**: Treatment of Graves' Disease with Radioactive Iodine (RAI) in a 3½-Year-Old Girl Pediatric (Research, 2003 April; 53(4): 156A #890)
- A Kamishlian, S Ten, **H Anhalt**, A Gupta, N Matthews, P.Filipov: Newborn with a Congenital Neck Mass (Pediatric Research, 2003 April; 53(4): 156A #891)
- N Ramchandani, S Ten, A Kamishlian, **H Anhalt**, Anjlikukreja, N. McClaren: Insulin Pump Therapy from Diagnosis of Type 1 Diabetes—Results from the First 6 Months (American Diabetes Association Research, 2003; 52(1): A439 #1903-PO)
- S Ten, N Ramchandani, I Noh, A Kukreja, A Bhangoo, M Vogiatzi, **H Anhalt**, M New, N MaClaren: Low Levels of Hormonal Binding Proteins in Obese Patients Result from Insulin Resistance (American Diabetes Association Research, 2003; 52(1): A296 #1275-P)
- Ahmed Y, Akhtar AS, Qureshi F, Qureshi, Anjum Q, **Anhalt H**: Polycystic ovarian syndrome a new perspective (J Pak Med Assoc., 2003 Feb; 53(2): 72-7)
- 2005 Gupta A, Ten S, **Anhalt H**: “Serum Levels of Soluble Tumor Necrosis Factor-alpha Receptor 2 are linked to Insulin Resistance and Glucose Intolerance in Children” Journal of Pediatric Endocrinology and Metabolism, 2005 Jan; 18 (1) 75-83
- Bhangoo A, Gu WX, Pavlakis S, **Anhalt H**, Heier L, Ten S, Jameson JL.. Phenotypic features associated with mutations in steroidogenic acute regulatory protein. J Clin Endocrinol Metab. 2005 Nov;90(11):6303-9. Epub 2005 Aug 23
- Kamishlian, N. Matthews, A. Gupta, P. Filipov, N. Maclaren, **H Anhalt** and S. Ten. Different Outcomes of Neonatal Thyroid Function after Graves' Disease in Pregnancy: Patient Reports and Literature Review Journal Pediatric Endo and Metabolism Volume 18, Number 12, December 2005 pp1357-1365
- 2006 Bhangoo AP, Hunter CS, Savage JJ, **Anhalt H**, Pavlakis S, Walvoord EC, Ten S, Rhodes SJ. A Novel LHX3 Mutation Presenting as Combined Pituitary Hormonal Deficiency.J Clin Endocrinol Metab. 2006 Jan 4;
- Bhangoo AP, **Anhalt H**, Ten S, King S. Phenotypic Variations in Lipoid Congenital Adrenal Hyperplasia. Pediatric Endocrinology Reviews 2006 March Vol 3 No 3

Insulin Pump Therapy From the Time of Diagnosis of Type 1 Diabetes, Diabetes. Ramchandani Neesha, **Anhalt H** et al Technology & Therapeutics (DT&T). issue 8-4 (August 2006).

Smotkin-Tangorra M, **Anhalt H**, Ten S. Growth hormone and premature atherosclerosis in childhood obesity. *Pediatr Endocrinol Metab.* 2006 Apr;19(4):455-65

2007 Newmark CY, **Anhalt H** Type 2 diabetes in children and adolescents. *Pediatr Ann.* 2007 Feb;36(2):109-13

Smotkin-Tangorra M, Purushothaman R, Gupta A, Nejati G, **Anhalt H**, Ten S. Prevalence Of Vitamin D Insufficiency In Obese Children And Adolescents. *J Pediatr Endocrinol Metab.* 2007 Jul;20(7):817-23.

Sinha SK, Bhangoo A, **Anhalt H**, Maclaren N, Marshall JD, Collin GB, Naggert JK, Ten S Effect Of Metformin And Rosiglitazone In A Prepubertal Boy With Alström Syndrome. *J Pediatr Endocrinol Metab.* 2007 Sep;20(9):1045-52

Bakker B, Frane J, **Anhalt H**, Lippe B, Rosenfeld RG Height Velocity Targets from NCGS for First Year Growth Hormone Responses in Short Children. *J Clin Endocrinol Metab.* 2007 Nov 13; [Epub ahead of print]

2009 Array comparative genomic hybridization analysis of heritable Xp deletion. Purushothaman R, Gunturu SD, **Anhalt H**, Ten S, Friedman A, Pearlman A, Ostrer H. *Am J Med Genet A.* 2009 Mar;149A(3):529-31.

2010 Unusual Phenotypical Variations in a Boy with McCune-Albright Syndrome. Purushothaman R, Gunturu SD, **Anhalt H**, Ten S, Friedman A, Pearlman A, Ostrer H. *Horm Res Paediatr.* 2010;73(3):215-22.

Basal Insulin Requirements on Continuous Subcutaneous Insulin Infusion During the First 12 Months After Diagnosis of Type 1 Diabetes Mellitus. N Ramchandani, M K Ellis, S Jain, S Bhandari, **H Anhalt**, N K. Maclaren, S Ten. *J Diabetes Sci Technol* Vol 4, Issue 3, May 2010

Insulin Patch Pumps: Their Development and Future in Closed-Loop Systems. **Anhalt H**, Bohanon N. *Diabetes Technology & Therapeutics* Volume 12, Supplement 1, 2010

2011 The prevalence of non-alcoholic fatty liver disease and metabolic syndrome in obese children. Gupta R, Bhangoo A, Matthews NA, **Anhalt H**, Matta Y, Lamichhane B, Malik S, Narwal S, Wetzler G, Ten S. *J Pediatr Endocrinol Metab.* 2011;24(11-12):907-11

2013 "Turn it off!": diabetes device alarm fatigue considerations for the present and the future. Shivers JP, Mackowiak L, **Anhalt H**, Zisser H.

J Diabetes Sci Technol. 2013 May 1;7(3):789-94.

- 2014 Closed-Loop Control Performance of the Hypoglycemia-Hyperglycemia Minimizer (HHM) System in a Feasibility Study.  
Finan DA, McCann TW Jr, Mackowiak L, Dassau E, Patek SD, Kovatchev BP, Doyle FJ 3rd, Zisser H, **Anhalt H**, Venugopalan R.  
J Diabetes Sci Technol. 2014 Jan 1;8(1):35-42. [Epub ahead of print]
- Effect of Algorithm Aggressiveness on the Performance of the Hypoglycemia-Hyperglycemia Minimizer (HHM) System.  
Finan DA, McCann TW Jr, Rhein K, Dassau E, Breton MD, Patek SD, **Anhalt H**, Kovatchev BP, Doyle FJ 3rd, Anderson SM, Zisser H, Venugopalan R.  
J Diabetes Sci Technol. 2014 May 18. pii: 1932296814534589. [Epub ahead of print].
- 2015 Continuous subcutaneous insulin infusion in patients with type 2 diabetes: a cohort study to establish the relationship between glucose control and plasma oxidized low density lipoprotein.  
Megson IL, Treweek AT, Shaw A, MacRury SM, Setford S, Frias JP, **Anhalt H**.  
J Diabetes Sci Technol. 2015 May;9(3):573-80
- Sosenko JM, Skyler JS, Beam CA, Boulware D, Mahon JL, Krischer JP, Greenbaum CJ, Rafkin LE, Matheson D, Herold KC, Palmer JP; Type 1 Diabetes TrialNet and Diabetes Prevention Trial–Type 1 Study Groups. The development and utility of a novel scale that quantifies the glycaemic progression toward type 1 diabetes over 6 months. Diabetes Care. 2015 May;38(5):940-2. doi: 10.2337/dc14-2787. Epub 2015 Mar 10. PubMed PMID: 25758770; PubMed Central PMCID: PMC4407750.**
- 2016 Continuous Glucose Monitoring: A Consensus Conference Of The American Association Of Clinical Endocrinologists And American College Of Endocrinology.  
Fonseca VA, Grunberger G, **Anhalt H**, Bailey TS, Blevins T, Garg SK, Handelsman Y, Hirsch IB, Orzech EA, Roberts VL, Tamborlane W; Consensus Conference Writing Committee. Endocr Pract. 2016 Aug;22(8):1008-21
- Achieve control: a pragmatic clinical trial of insulin glargine 300 U/mL versus other basal insulins in insulin-naïve patients with type 2 diabetes.  
Oster G, Sullivan SD, Dalal MR, Kazemi MR, Rojeski M, Wysham CH, Sung J, Johnstone B, Cali AM, Wei LJ, Traylor L, **Anhalt H**, Hull M, Van Vleet J, Meneghini LF.  
Postgrad Med. 2016 Nov;128(8):731-739
- Anhalt H**. Limitations of Continuous Glucose Monitor Usage. Diabetes Technol Ther. 2016 Mar;18(3):115-7. doi: 10.1089/dia.2016.0011. PubMed PMID: 26983025.

- 2017 Rebranding asymptomatic type 1 diabetes: the case for autoimmune beta cell disorder as a pathological and diagnostic entity. Bonifacio E, Mathieu C, Nepom GT, Ziegler AG, **Anhalt H**, Haller MJ, Harrison LC, Hebrok M, Kushner JA, Norris JM, Peakman M, Powers AC, Todd JA, Atkinson MA. Diabetologia. 2017 Jan;60(1):35-38.
- 2018 **Anhalt H**. Applying digital technology to clinical trials to improve real-world outcomes. Am J Manag Care. 2018 Mar;24(4 Spec No.): SP114-SP115. PubMed PMID: 29689146.
- Jacobsen LM, Anhalt H, Haller MJ. Presymptomatic screening for autoimmune  $\beta$ -cell disorder: Baby steps toward prevention? Pediatr Diabetes. 2018 Feb;19(1):11-13. doi: 10.1111/pedi.12620. PubMed PMID: 2936**

#### **PUBLICATIONS - TEXTBOOK CHAPTERS:**

- 1995 **H Anhalt**, EK Neely: Sex Chromosome Aberrations and Genetic Consequences. In: "Advances in Genome Biology" 4:153-180 ed. R Verma, JAI Press, Greenwich
- 1996 **H Anhalt**, K Eckert, RG Rosenfeld: Outpatient Pediatric Endocrinology. In: "Pediatrics for Medical Students" ed. D Bernstein and S Shelov, Williams and Wilkins, Baltimore, 1996
- K Eckert, **H Anhalt**, RG Rosenfeld: Inpatient Pediatric Endocrinology. In: "Pediatrics for Medical Students" ed. D Bernstein and S Shelov, Williams and Wilkins, Baltimore, 1996
- 1998 **H Anhalt**: "Childhood Obesity - The Epidemic of the 21<sup>st</sup> Century and how it relates to Premature Aging," Vol. II, Anti-Aging Medical Therapeutics, ed. R.M. Klatz, R. Goldman, 1998
- 2002 **H Anhalt**, K Eckert, R G Rosenfeld: Pediatric Endocrinology, In "Pediatrics for Medical Students" ed. D Bernstein and S Shelov, Williams and Wilkins, Baltimore, 2002
- 2006 Amrit Bhangoo, **H Anhalt** , Ron Rosenfeld: "Non-Growth Hormone Deficient Short Stature" In Pediatric Endocrinology Volume 2 ed F Lifshitz, Marcel Dekker, New York

#### **PUBLICATIONS (INVITED REVIEWS):**

- 1996 **H Anhalt**, EK Neely, RL Hintz: “Congenital Adrenal Hyperplasia.” Pediatric Review and Education Program. June 1996
- 2000 **H Anhalt**, D Chin: “Endocrine Means of Treatment of Short Stature.” Pediatric Annals 2003
- H Anhalt**: “Evaluation of the Obese Child” Your Doctor.com. July 2000
- 2003 **H Anhalt**: “Compensated Hypothyroidism: To Treat Or Not?” ACOP Pulse Viewpoint Section. Spring 2003
- 2004 **H Anhalt**, S Ten, C Silverstein, et al. Consensus Development: Childhood Obesity J. Clin. Endocrinol. Metab., Dec 2004; 10.1210/jc.2004-1389
- 2007 C Newmark, **H Anhalt**: “Type 2 Diabetes in Children and Adolescents Pediatric Annals, 36:2 pp 109-113
- 2016 **H Anhalt** “Limitations of Continuous Glucose Monitor Usage” Diabetes Technol Ther. 2016 Mar;18(3):115-7
- 2006-2009 Physician Editor in Chief-MD NetGuide Endocrinology Edition

### **POSTGRADUATE TRAINING:**

- 1992-1995 Post-Doctoral Fellow, Division of Pediatric Endocrinology  
Stanford University Medical Center
- 1991-1992 Chief Residency in Pediatrics,  
Winthrop University Hospital
- 1989-1992 Residency in Pediatrics,  
Winthrop University Hospital
- 1988-1989 Rotating Internship,  
Brookdale Hospital Medical Center

### **GRADUATE EDUCATION:**

- 1988 New York College of Osteopathic Medicine D.O.

### **UNDERGRADUATE EDUCATION:**

- 1983 Yeshiva College of Yeshiva University  
B.A. Pre-med/Biology Major





