

UNIVERSITY OF PENNSYLVANIA – SCHOOL OF MEDICINE
CURRICULUM VITAE

August 2021

Adda Grimberg, M.D.

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Education:

1985-1989 Cornell University College of Agriculture and Life Sciences, Ithaca, NY.
B.S. with Honors and Distinction in Biology; concentration in Genetics and Development.

1989 Tel Aviv University, Tel Aviv, Israel.
Summer Intensive Hebrew Studies.

1989-1993 Cornell University Medical College, New York, NY.
Doctor of Medicine.

Postgraduate Training and Fellowship Appointments:

1993-1996 Residency in General Pediatrics,
Children’s Hospital of Philadelphia, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA.

1996-1999 Fellowship in Pediatric Endocrinology,
Children’s Hospital of Philadelphia, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA.

2001-2002 Patient Oriented Research Certificate,
Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA.

2014 Introduction to Health Policy and Health Services Research (HPR 600),
Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA.

2019-2020 Physician Leadership Program,
Children’s Hospital of Philadelphia, Philadelphia, PA.

Faculty Appointments:

1993-2000 Instructor, Department of Pediatrics,
Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA.

2000-2009 Assistant Professor, Department of Pediatrics,
Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA.

- 2009-2017 Associate Professor, Department of Pediatrics,
Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA.
(Approved December 9, 2008; effective July 1, 2009)
- 2017-present Professor, Department of Pediatrics,
Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA.
(Approved February 9, 2017; effective July 1, 2017)

Hospital and/or Administrative Appointments:

- 1999-present Attending Physician, Division of Endocrinology and Diabetes, Children's
Hospital of Philadelphia
- 2008-2009 Interim Director, Diagnostic and Research Growth Center, Children's Hospital
of Philadelphia
- 2009-present Scientific Director, Diagnostic and Research Growth Center, Children's Hospital
of Philadelphia

Other Appointments:

- 2000-present Member, Abramson Cancer Center, Perelman School of Medicine, University of
Pennsylvania, Philadelphia, PA
- 2000-present Member, Children's Hospital of Philadelphia (Joseph Stokes, Jr.) Research
Institute, Children's Hospital of Philadelphia, Philadelphia, PA
- 2003-present Member, Institute for Diabetes, Obesity, and Metabolism, Perelman School of
Medicine, University of Pennsylvania, Philadelphia, PA
- 2007-present Member, Institute for Translational Medicine and Therapeutics, Perelman
School of Medicine, University of Pennsylvania, Philadelphia, PA
- 2014-present Senior Fellow, Leonard Davis Institute of Health Economics,
University of Pennsylvania, Philadelphia, PA
- 2019-present Member, Anna T. Meadows Society, Perelman School of Medicine Clinician
Educators, University of Pennsylvania, Philadelphia, PA

Specialty Certification:

- 1994 National Board of Medical Examiners
1996 General Pediatrics; recertified for 2003-2010
1999 Pediatric Endocrinology; recertified for 2007-2013 and currently enrolled in
MOC 2018-2023 cycle (with recertification exams passed in 2006, 2016)

Licensure:

- 1995 Pennsylvania

Awards, Honors and Membership in Honorary Societies:

- 1985 Academic All-American College Scholarship;
United States Achievement Academy National College Scholarship Grant;
Cornell National Scholar, Cornell University, Ithaca, NY.
- 1985-1989 Regents Scholar, Commonwealth of New York State.
- 1987 Alpha Epsilon Delta, Premedical Honor Society;
Ho Nun De Kah, Honor Society of the College of Agriculture and Life Sciences,
Cornell University, Ithaca, NY.
- 1987 Outstanding College Students of America;
The National Dean's List.
- 1988 Phi Kappa Phi, Honor Society, Cornell University, Ithaca, NY.
- 1989 Merrill Presidential Scholar (graduated top 1% of class);
Golden Key National Honor Society;
Gamma Sigma Delta, Honor Society of Agriculture, Cornell University, Ithaca,
NY.
- 1991 Student Award in Clinical Nutrition, The Regional Center for Nutrition
Education, The New York Academy of Medicine.
- 1997 Pediatric Endocrine Society (formerly named in honor of Lawson Wilkins)
Travel Grant, The 5th Joint Meeting of the European Society for Paediatric
Endocrinology and The Lawson Wilkins Pediatric Endocrine Society,
Stockholm, Sweden.
- 1997 Pediatric Endocrine Society (formerly named in honor of Lawson Wilkins)
Award, Advanced Postgraduate Course on Growth and Growth Disorders,
Karolinska Institute, Stockholm, Sweden.
- 1998 Pediatric Endocrine Society (formerly named in honor of Lawson Wilkins) - Eli
Lilly Research Fellowship.
- 2000-2002 Pediatric Endocrine Society (formerly named in honor of Lawson Wilkins) -
Genentech Clinical Scholar Award.
- 2003-2005 NIH Loan Repayment Program Award.
- 2003 Invited discussant, Novartis Foundation Symposium No. 263: "Biology of IGF-I -
Its Interaction with Insulin in Health and Malignant States," London, England.
- 2004 Marquis Who's Who in America, 58th Edition.
- 2004-2006 American Liver Foundation Blowitz-Ridgeway Innovative Hepatology Seed
Grant Award.
- 2007 Elected member, Society for Pediatric Research
- 2009 America's Top Pediatricians, Consumers' Research Council of America.

- 2009 European Society of Pediatric Endocrinology Best Publication Award for “Novel Insights from Clinical Practice” in *Hormone Research* 2008 (Klaus Mohnike, Oliver Blankenstein, Andreas Pfuetzner, Simone Pötzsch, Ewald Schober, Stephan Steiner, Olga T. Hardy, Adda Grimberg, and W.M. van Waarde, “Long-term Non-surgical Therapy of Severe Persistent Congenital Hyperinsulinism with Glucagon,” *Hormone Research*, 2008; 70: 59-64. PMID: 18493152.)
- 2011 Avvo’s Top Northeast Doctors (top 100 overall, 10 of whom were pediatricians), Arrive Magazine and Avvo.com.
- 2011 “Top Doctors,” Main Line Today
- 2015-21 Castle Connolly Top Doctor in Pediatric Endocrinology (annual recognition)
- 2015 Hawkes CP, Grimberg A, Kenny LC, Kiely M, Murray DM. Early Infant Linear Growth Predicts which Children Born Small for Gestational Age Fail to Catch Up. Special acknowledgment at the PES Presidential Poster Reception, *Pediatric Endocrine Society/Pediatric Academic Societies’ Annual Meeting, San Diego, CA*.
- 2015 Recognized by The International Association of Pediatricians in *The Leading Physicians of the World*.
- 2015 Recognized by the International Association of HealthCare Professionals as a Top Endocrinologist, in *The Leading Physicians of the World*.
- 2016 8th International Congress of the Growth Hormone Research Society and IGF Society, Tel Aviv, Israel, presentation of the most important publications of the past 2 years in GH - Dr. Beverly Biller highlighted three of my papers
- 2016 8th International Congress of the Growth Hormone Research Society and IGF Society, Tel Aviv, Israel, presentation of the most important publications of the past 2 years in IGF - Dr. Briony Forbes highlighted one of my papers
- 2016-21 America’s Most Honored Professionals, American Registry (annual recognition)
- 2017 Selection by Nature Reviews Endocrinology as the featured article of the month (Emma Wakeling, Frédéric Brioude, Kemi Lokulo-Sodipe, et al., “Diagnosis and Management of Silver-Russell Syndrome: First International Consensus Statement,” *Nature Reviews Endocrinology*, 2017;13(2):105-124. PMID: 27585961.)
- 2017 Selection by *Hormone Research in Paediatrics* as “Editor’s Pick,” featured on the journal website and issue cover (Adda Grimberg, Sara A. DiVall, Constantin Polychronakos, et al., “Guidelines for Growth Hormone and Insulin-like Growth Factor-I Treatment in Children and Adolescents: Growth Hormone Deficiency, Idiopathic Short Stature, and Primary Insulin-like Growth Factor-I Deficiency,” *Hormone Research in Pediatrics*, 2016 Nov 25. [Epub ahead of print]. PMID: 27884013.)
- 2017-21 Castle Connolly Exceptional Women in Medicine (annual recognition)

- 2018-21 "Top Doctors," Philadelphia Magazine (annual recognition)
- 2019 Selection by Hormone Research in Paediatrics as the best original paper from North America published in HRP in 2018 (Colin P. Hawkes, Deirdre M. Murray, Louise C. Kenny, Mairead Kiely, Jonathan O'B. Hourihane, Alan D. Irvine, Klaudia Sikora, Zeng R. Wu, Yair Argon, Richard E. Reitz, Michael J. McPhaul, and Adda Grimberg, "Correlation of Insulin-like Growth Factor-I and -II Concentrations at Birth Measured by Mass Spectrometry and Growth from Birth to Two Months," *Hormone Research in Paediatrics*, 2018; 89(2):122-131. PMID: 29402777.)
- 2019 Selection by the Endocrine Society for publication in the society's annual Research Summaries Book (35-50 particularly newsworthy abstracts from the annual meeting): Adda Grimberg and Genevieve Pham Kanter, "Growth Hormone Utilization by U.S. Youth: Trends as Insurance Pushes Back after FDA-Approved Expansion," *The 101st Annual Meeting of The Endocrine Society: ENDO2019, New Orleans, LA, 2019*.
- 2019 Recognized by Expertscape as one of the world's top experts in pituitary hormones (top 0.12%)
- 2019 Selection by Hormone Research in Paediatrics as "Editor's Pick," featured on the journal website and issue cover (Catalina Cabrera-Salcedo, Colin P. Hawkes, Leah Tyzinski, Melissa Andrew, Guillaume Labilloy, Diego Campos, Amalia Feld, Annalisa Deodati, the Genomics Research and Innovation Network, Vivian Hwa, Joel Hirschhorn, Adda Grimberg, and Andrew Dauber; the Genomics Research and Innovation Network, "Targeted Searches of the Electronic Health Record and Genomics Identify an Etiology in Three Patients with Short Stature and High IGF-I Levels," *Hormone Research in Pediatrics*, 2019 Dec 20:1-10. doi: 10.1159/000504884. [Epub ahead of print]. PMID: 31865343.)
- 2020 Selection by Hormone Research in Paediatrics as the best original paper from North America published in HRP in 2019 (Catalina Cabrera-Salcedo, Colin P. Hawkes, Leah Tyzinski, Melissa Andrew, Guillaume Labilloy, Diego Campos, Amalia Feld, Annalisa Deodati, the Genomics Research and Innovation Network, Vivian Hwa, Joel Hirschhorn, Adda Grimberg, and Andrew Dauber; the Genomics Research and Innovation Network, "Targeted Searches of the Electronic Health Record and Genomics Identify an Etiology in Three Patients with Short Stature and High IGF-I Levels," *Hormone Research in Pediatrics*, 2019; 92(3):186-195. PMID: 31865343.)
- 2021 "Top Doctors," Be Well Philly 2021 Health and Wellness Guide, American Registry.

Memberships in Professional and Scientific Societies and Other Professional Activities:

International:

- 1997-present The Endocrine Society (Member)
- Invited participant, Endocrine Society Growth Hormone Summit, Washington, DC (2017)
 - Member, Annual Meeting Steering Committee (2020-2023)
 - Member, Scientific Statement on Health Disparities Taskforce (2020-present)

- 1999-present Pediatric Endocrine Society (formerly named in honor of Lawson Wilkins) (Member)
- Member, Drugs and Therapeutics Committee (2008-2012)
 - Chair, Growth Hormone/IGF-I Guidelines Taskforce (2009-2017)
 - Co-Chair, Drugs and Therapeutics Committee (2010-2011)
 - Member, Growth Hormone and Neoplasia Taskforce (2010-2015)
 - Ad hoc grant reviewer (2012)
 - Member, Program Committee (2012-2015)
 - Member, Clinical Update/Board Review Subcommittee of the PES Education Council (2017-present)
- 2004-present International Society for IGF Research (Member)
- 2008 Cancer Research United Kingdom (Project Grant Reviewer)
- 2010-present Growth Hormone Research Society (Member)
- Elected Member, Council (2019-2022)
- 2013-2014 North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (Member, Failure to Thrive Taskforce)
- 2014-2016 European Society for Paediatric Endocrinology, Growth Hormone Research Society and Pediatric Endocrine Society Consensus Workshop, "Safety of Growth Hormone Treatment" (Invited participant and breakout scribe, Cheshire, UK, Nov 2014)
- 2015 German-Israeli Foundation for Scientific Research and Development (Project Grant Reviewer)
- 2015-2016 European Society for Paediatric Endocrinology and Pediatric Endocrine Society, Consensus Meeting on Silver-Russell Syndrome (Invited participant; PES representative, Barcelona, Spain, Oct 2015)
- 2015-2016 Growth Hormone Research Society, Workshop on Long-Acting Growth Hormone Preparations (Invited participant and speaker, Monterey, CA, Nov 2015)
- 2015-2018 Pfizer International Growth Study (KIGS) Database (Member, Steering Committee)
- 2016 Israel Science Foundation (Project Grant Reviewer)
- 2021 Growth Hormone Research Society, Workshop on Safety of GH Treatment in Cancer and Intracranial Tumour Survivors in Children and Adults. (Invited participant, virtual, June-Sept 2021)
- National:
- 1989-1993 American Medical Association (Student Member)
- 1993-present American Academy of Pediatrics (Member, 1993-2004; Fellow 2004-present)

- Member, PREP Endocrinology Advisory Board (2010-2013)

1997-present Federation of American Societies for Experimental Biology (FASEB) (Member)

2012-2014 National Children's Study Federal Advisory Committee, Eunice Kennedy Shriver National Institute of Child Health and Human Development, NIH (Member; Committee Vice Chair, 2014)

2016 Intramural Program Site Visit, Eunice Kennedy Shriver National Institute of Child Health and Human Development, NIH (Member; Secondary reviewer of two physician-scientists)

2017 Endocrine Society Growth Hormone Deficiency Summit (Invited faculty, Washington, DC, Aug 2017)

2020-1 Short Stature Self-Assessment - MOC2, American Board of Pediatrics (Invited author of 4 questions/answers/explanations)

Local:

2001-present Philadelphia Endocrine Society (Member)
• Board Member (2002-2009)

Editorial Positions:

2003 Section editor, "Endocrinology" (31 author contributions) – The National Organization for Rare Disorders, Guide to Rare Disorders, Lippincott, Williams & Wilkins, Philadelphia, 2003; 299-330.

2004-2009 Associate Editor, Growth, Genetics and Hormones

2014-present Member, Editorial Board, Pediatric Endocrinology Reviews

2018 Chief Guest Editor, 60 Years of Human Growth Hormone, Pediatric Endocrinology Reviews (Volume 16, Supplement 1, Sept 2018)

Ad hoc reviewer for:

Pediatric Emergency Care;
Medical and Pediatric Oncology: An International Journal;
Journal of Clinical Endocrinology and Metabolism;
Cancer Research;
Diabetes;
Clinical Endocrinology;
Hormone Research;
Pediatric Endocrinology Reviews;
Pediatrics;
Cancer Biology and Therapy;
Pediatric Research;
Journal of Endocrinology;
Journal of Pediatrics;
Journal of Clinical Investigation;
International Journal of Pediatric Endocrinology;
Hormone Research in Paediatrics;

BMC Pediatrics;
Scientific Reports;
JAMA Pediatrics

Academic Committees at the University of Pennsylvania and Affiliated Hospitals:

- 2001-present Ad hoc grant reviewer, University of Pennsylvania Diabetes and Endocrinology Research Center Pilot and Feasibility Study Program
- 2004-2007 Member, Institutional Review Board, Children's Hospital of Philadelphia
- 2008-2009 Member, Executive Committee of the Division of Pediatric Endocrinology and Diabetes, Children's Hospital of Philadelphia
- 2008-2009 Member, EPIC Committee of the Division of Pediatric Endocrinology and Diabetes (champion the transition to the electronic health record system), Children's Hospital of Philadelphia
- 2011-2015 Member, Improved Accuracy of Growth Measurements in the Medical Record project team, Children's Hospital of Philadelphia Office of Patient Safety and Quality
- 2019 Member, Clinical Research Center RE@CH Award Selection Committee, Children's Hospital of Philadelphia

Major Teaching and Clinical Responsibilities at the University of Pennsylvania:

- 2001-2007 Precept 2nd-year CHOP Endocrine Fellows in the Out-patient Endocrine Clinic, Children's Hospital of Philadelphia
 - 2001-2002 Neil Caplan, MD
 - 2002-2003 Maria Henwood, DO
 - 2003-2004 Shannon Fournier, MD
 - 2004-2005 Nina Ham, MD
 - 2005-2006 Preneet Brar, MD
 - 2006-2007 Chirag Kapadia, MD
- 2002 Mentor Jessica Lynn Katz (medical student), University of Pennsylvania School of Medicine Scholarly Pursuit Program
- 2002-2004 Mentor Maria Henwood, DO (endocrine fellowship research), Children's Hospital of Philadelphia, University of Pennsylvania School of Medicine
- 2002-2014 Organizer, Journal Club, Division of Endocrinology and Diabetes, Children's Hospital of Philadelphia
- 2004-2006 Mentor Zonggao Shi, PhD (post-doctoral fellow), University of Pennsylvania School of Medicine
- 2004-2009 Organizer, Out-Patient Subspecialties Rotation in Endocrinology, Children's Hospital of Philadelphia, University of Pennsylvania School of Medicine
- 2006-2008 Mentor Chirag Kapadia, MD (endocrine fellowship research), Children's Hospital of Philadelphia, University of Pennsylvania School of Medicine

- 2006-2014 Organizer, Morbidity and Mortality Series, Division of Endocrinology and Diabetes, Children's Hospital of Philadelphia
- 2007 Mentor Alexander Nguyen (undergraduate research), University of Pennsylvania School of Medicine
- 2008-2010 Mentor Alisa Schiffman, DO (endocrine fellowship research), Children's Hospital of Philadelphia, University of Pennsylvania School of Medicine
- 2008-2009 Mentor Amy Williams (medical student), University of Pennsylvania School of Medicine Scholarly Pursuit Program
- 2010 Mentor Lina Huerta-Saenz, MD (pediatrics resident at Einstein Medical Center doing a research elective), Children's Hospital of Philadelphia
- 2010-2014 Member of mentoring committee for Michal T. Marzec, MD, PhD (post doctorate research career development), Children's Hospital of Philadelphia, University of Pennsylvania School of Medicine
- 2010-present Organizer, Annual Thomas Moshang, Jr. Memorial Lectureship Series, Children's Hospital of Philadelphia
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| 9/28/10 | Zvi Laron | "The Description, Elucidation of Pathophysiology, and Treatment of Laron Syndrome (Primary GH Insensitivity)" |
| 9/14/11 | Derek LeRoith | "The Somatomedin Hypothesis Revisited 2011: Implications for Somatic Growth and Cancer Development" |
| 9/12/12 | Alan Rogol | "Doping in Sport with Endocrine-related Agents: An Issue of Olympic Proportions" |
| 10/23/13 | Ron Rosenfeld | "Evolution and Growth" |
| 10/01/14 | John Parks | "Familial Hypopituitarism with Large Sella Turcica: From the CHOP Three to the Prop Ones" |
| 12/02/15 | Lynne Levitsky | "The Effects of Obesity on Growth" |
| 11/30/16 | Mitchell Geffner | "45,X and Related Disorders: Nothing to Turn Your Nose At!" |
| 11/01/17 | Joseph Majzoub | "The Biology of the Stress Response: Endocrine Stress Pathology in Common Childhood Diseases" |
| 11/07/18 | David B. Allen | "Lessons from the hGH Era: A Paradigm in Expansive Biotechnology" |
| 10/30/19 | Erica Eugster | "Manipulation of Sex Steroids to Alter Growth" |
| 12/09/20 | Madhusmita Misra | "Oligo-amenorrhea in Athletes: Consequences and Management" |
| 10/27/21 | Jeffrey Baron | "New Concepts in Childhood Growth" |
- 2013-2018 Member of mentoring committee for Colin Hawkes, MD (PhD doctorate program, University College Cork, during research years of Endocrine fellowship at CHOP), Children's Hospital of Philadelphia
- 2014-2017 Member of mentoring committee for Megan M. Oberle, MD (endocrine fellowship research), Children's Hospital of Philadelphia, Perelman School of Medicine, University of Pennsylvania
- 2017-present Precept 3rd-year CHOP Endocrine Fellows in the Out-patient Senior Academic Clinic, Children's Hospital of Philadelphia

- 2018-2020 Precept 1st-year CHOP Endocrine Fellows in the Out-patient Academic Clinic, Children's Hospital of Philadelphia
- 2019-2020 Mentor Talia Hitt, MD, MPH (first year endocrine fellow research project), Children's Hospital of Philadelphia, Perelman School of Medicine, University of Pennsylvania
- 2019-2020 Mentor Julia Halas (undergraduate student), Dept of Biology, College of Arts and Sciences, University of Pennsylvania
- 2020-present Mentor Camilia Kamoun, MD (endocrine fellowship research and Masters in Bioethics projects), Children's Hospital of Philadelphia, Perelman School of Medicine, University of Pennsylvania. Supported by NIDDK T32 Training Grant in Pediatric Diabetes and Endocrinology.
- 2021-present Member of mentoring committee for Yavuz Bayrum, MD (junior faculty in the Division of Genomic Diagnostics), Children's Hospital of Philadelphia, Perelman School of Medicine, University of Pennsylvania

Lectures within the Division of Endocrinology and Diabetes, Children's Hospital of Philadelphia (last five years):

- 2005-present Presenter, Division of Endocrinology and Diabetes Journal Club
- 2007-present Fellowship training sessions on Growth Measurement and Evaluation
- 2008-present Annual lecture on Growth Disorders
- 2008-present Annual lecture on Growth Receptors
- 2009-present "The Growth Hormone/IGF Axis," Fellowship Board Review annual series
- TBD "Prader-Willi Syndrome"

Non-Divisional Lectures at the University of Pennsylvania and the Children's Hospital of Philadelphia, Philadelphia, PA (last five years):

- 04/17/16 "HI and Growth," Congenital Hyperinsulinism Family Conference, Children's Hospital of Philadelphia and Congenital Hyperinsulinism International.
- 10/19/18 "Growth Receptor," Wharton Israel Conference: Celebrating 70 Years of Innovation, Wharton School of the University of Pennsylvania
- 04/29/20 "Prader-Willi Syndrome," Children's Hospital of Philadelphia Sleep Center "Sleep Shorts" Seminar Series

Clinical:

Attending on the Children's Hospital of Philadelphia Endocrinology and Diabetes In-patient and Consult Services (last 10 years)

- 2011-2012: 4 weeks + 3 weekends
2012-2013: 5 weeks + 3 weekends

2013-2014: 5 weeks + 2 weekends
2014-2015: Sabbatical
2015-2016: 4 weeks + 2 weekends
2016-2017: 4 weeks + 2 weekends
2017-2018: 2 weeks + 2 weekends
2018-2019: 2 weeks + 2 weekends
2019-2020: 2 weeks + 2 weekends
2020-2021: 2 weeks + 2 weekends
2021-2022: 2 weeks + 2 weekends

- Responsible for all in-patients on the endocrine and diabetes service at the Children's Hospital of Philadelphia
- Responsible for all endocrine consults at the Children's Hospital of Philadelphia and the Neonatology Unit of the Hospital of the University of Pennsylvania
- Lead the endocrine team (endocrinology fellows, pediatrics residents, medical students, nurses, social worker and dietitian) on morning rounds
- Clinical teaching: Bedside and at morning rounds
- Weekly endocrine attending didactic presentation for fellows, residents, and medical students

Out-patient Endocrinology Clinic (last 10 years)

2011-2012: 1 session/week at the Children's Hospital of Philadelphia (Main), 2 sessions every other month at the King of Prussia satellite clinic
2012-2013: 1 session/week at the Children's Hospital of Philadelphia (Main), 2 sessions/month at the King of Prussia satellite clinic
2013-2014: 1 session/week at the Children's Hospital of Philadelphia (Main), 4 sessions/month at the King of Prussia satellite clinic, 2 Saturday morning sessions at the Children's Hospital of Philadelphia (Main)
2014-2015: 2 sessions/month at the King of Prussia satellite clinic [sabbatical year]
2015-2016: 8 sessions/month at the Children's Hospital of Philadelphia (Main) clinic, 6 sessions/month at the Brandywine satellite clinic, 4 sessions/month at the King of Prussia satellite clinic, 4 sessions/month at the Exton satellite clinic, 2 Saturday morning sessions at the Children's Hospital of Philadelphia (Main)
2016-2017: 8 sessions/month at the Children's Hospital of Philadelphia (Main) clinic, 6 sessions/month at the Brandywine satellite clinic, 4 sessions/month at the King of Prussia satellite clinic, 4 sessions/month at the Exton satellite clinic, 2 Saturday morning sessions at the Children's Hospital of Philadelphia (Main)
2017-2018: 7 sessions/month at the Children's Hospital of Philadelphia (Main) clinic, 4 sessions/month at the Brandywine satellite clinic, 4 sessions/month at the King of Prussia satellite clinic, 4 sessions/month at the Exton satellite clinic, 2 Saturday morning sessions at the Children's Hospital of Philadelphia (Main)
2018-2019: 8 sessions/month at the Children's Hospital of Philadelphia (Main) clinic, 4 sessions/month at the Brandywine satellite clinic, 6 sessions/month at the King of Prussia satellite clinic, 4 sessions/month at the Exton satellite clinic, 2 Saturday morning sessions at the Children's Hospital of Philadelphia (Main)
2019-2020: 8 sessions/month at the Children's Hospital of Philadelphia (Main) clinic, 2 sessions/month at the Brandywine satellite clinic, 6 sessions/month at the King of Prussia

satellite clinic, 4 sessions/month at the Exton satellite clinic, 2 Saturday morning sessions at the Children's Hospital of Philadelphia (Main)

2020-2021: 8 sessions/month at the Children's Hospital of Philadelphia (Main) clinic, 6 sessions/month at the King of Prussia satellite clinic, 4 sessions/month at the Exton satellite clinic, 2 Saturday morning/evening sessions at the Children's Hospital of Philadelphia (Main)

2021-2022: 8 sessions/month at the Children's Hospital of Philadelphia (Main) clinic, 6 sessions/month at the King of Prussia satellite clinic, 2 sessions/month at the Exton satellite clinic, 2 Saturday morning/evening sessions at the Children's Hospital of Philadelphia (Main)

- For each session, see patients with general endocrine problems as well as precept 1-3 nurse practitioners in the care of patients with diabetes mellitus and endocrine problems
- Precept endocrinology fellows, residents, and medical students

Endocrine Fellows' Academic Clinics

2007-2008: 7 sessions

2008-2009: 5 sessions

2009-2010: 5 sessions

2010-2011: 3 sessions

2011-2012: 3 sessions

2017-2018: 1 session/month

2018-2019: 2 sessions/month

2019-2020: 2 sessions/month

2020-2021: 1 session/month

2021-2022: 1 session/month

- Precept in clinical care
- Teaching session for all fellows at the end/start of clinic

Prader-Willi Syndrome Program

2006-2010: 5 clinic sessions/year + team meetings

- Founding Endocrine Attending
- Organized new diagnostic specialty clinic and interdisciplinary team with members from endocrinology, genetics, neurology, pulmonology, development, and nutrition

Lectures by Invitation (last five years):

3/17/16 "The Quest for Height – Seeking GH to Make Children and Adolescents Taller," The 3rd International Conference on Nutrition and Growth, Vienna, Austria.

3/18/16 "The Physiology and Mechanisms of Growth," The 3rd International Conference on Nutrition and Growth, Vienna, Austria.

4/29/16 "Case Study Roundtable on Short Stature and Slow Growth: Common Causes and Management" and "Case Study Roundtable on Atypical Causes of Growth Disturbances," Challenges in Pediatrics: Short Stature, Slow Growth, and Other Growth-Related Issues,

Pediatric Residents' Symposium prior to the 2016 Pediatric Academic Societies Annual Meeting, Baltimore, MD.

- 4/29/16 "Safety of GH Therapy: Looking Forward," Annual Meeting of the Human Growth Foundation, Baltimore, MD.
- 4/30/16 "Drugs and Therapeutics Committee: Review of the New Growth Hormone and IGF-I Guidelines," Pediatric Endocrine Society Workshop, 2016 Pediatric Academic Societies Annual Meeting, Baltimore, MD.
- 5/19/16 "Race/Ethnicity in U.S. KIGS – Evidence of Bias?" Annual Meeting of the Steering Committee of the Pfizer International Growth Study (KIGS) Database, Berlin, Germany.
- 6/22/16 "Growth Hormone and the Risk of Neoplasia," Combined Endocrine Grand Rounds at the Indiana University School of Medicine, Indianapolis, IN.
- 11/08/16 "Barriers Perceived by Parents to Potentially Impede Medical Care for a Child's Short Stature," "GRS – Short Clinical Science Posters," The 8th International Congress of the Growth Hormone Research Society and IGF Society, Tel Aviv, Israel.
- 2/28/17 "When Medicine and Social Forces Intersect: Disparities in the Management of Short Stature in Children and Adolescents," Columbia University Medical Center Pediatric Endocrine Seminar Series, New York, NY.
- 4/03/17 "New Guidelines for Evaluation and Treatment of Growth Hormone Deficiency," "Melvin M. Grumbach Memorial Symposium: Childhood Growth: From Genes to Society," Annual Meeting of the Endocrine Society, Orlando, FL.
- 5/04/17 "Case Study Roundtable on the Likely Causes of Short Stature" and "Case Study Roundtable on Atypical Causes of Growth Disturbances," Challenges in Pediatrics: Exploring Growth and Growth Variants, Pediatric Residents' Symposium prior to the 2017 Pediatric Academic Societies Annual Meeting, San Francisco, CA.
- 5/31-6/3/17 Invited international faculty at 12th COBRAPEM (Congresso Brasileiro Pediatrico de Endocrinologia e Metabologia), Rio de Janeiro, Brazil:
- "The New Growth Hormone and Insulin-like Growth Factor-I Guidelines from the Pediatric Endocrine Society"
 - "Social Pressures: Seeking Growth Hormone to Make Children and Adolescents Taller"
- 7/13/17 "Racial/Ethnic Disparities in U.S. Pediatric GH Treatment" Annual Meeting of the Steering Committee of the Pfizer International Growth Study (KIGS) Database, Copenhagen, Denmark.
- 11/14/17 "When Medicine and Social Forces Intersect: Disparities in the Management of Short Stature in Children and Adolescents," The Children's Medical Center at NYU Winthrop Hospital Grand Rounds, New York University School of Medicine, Mineola, NY.
- 4/19/18 Pediatrics 2018 Update and Board Review Course, Clinica Alemana, Santiago, Chile.
- Lecture: "Type 2 Diabetes: Not Just for Adults Anymore"
 - Lecture: "Ethics and Science: Social Pressures and Seeking Growth Hormone to Make Children and Adolescents Taller"
 - Lecture: "Addison's Disease (and Other Adrenal Insufficiencies)"

- Write 4 board review questions and answers with explanations on each of my 3 lecture topics
- 5/03/18 Challenges in Pediatrics: What's Normal Growth and What's Not?, Pediatric Residents' Symposium prior to the 2018 Pediatric Academic Societies Annual Meeting, Toronto, Canada.
- Lecture: "Uncovering the Uncommon Causes of Growth Issues"
 - Leader: "Case Study Roundtable on the Likely Causes of Short Stature"
 - Leader: "Case Study Roundtable on Atypical Causes of Growth Disturbances"
- 5/04/18 "Practical Growth Session – Clinical Conundrums in Childhood Growth Presenting to the Pediatric Endocrinologist," Pediatric Endocrine Society 2018 Clinical Update and Case Discussion Course (in partnership with the Canadian Pediatric Endocrine Group), Toronto, Canada.
- 5/05/18 "Diagnosis and Management of Silver-Russell Syndrome," American Board of Pediatrics MOC 2 session, 2018 Pediatric Endocrine Society Annual Meeting, Toronto, Canada.
- 4/26/19 "Growth and Growth Disorders," Pediatric Endocrine Society Board Review Course, Baltimore, MD.
- 11/9/19 "The Kinked Pipeline to Growth Hormone Treatment: It's More than Just a Matter of Access," Midwest Pediatric Endocrine Society Meeting, St. Louis, MO.
- 2/21/20 "Growth Hormone Stimulation Testing: A Standard of Care that is Anything but Standard," Canadian Pediatric Endocrine Group (CPEG) Meeting, Winnipeg, Manitoba, Canada.
- 9/10/20 "The Kinked Pipeline to Growth Hormone Treatment: It's More than Just a Matter of Access," Pediatric Grand Rounds, Goryeb Children's Hospital, Atlantic Health System, Morristown, NJ.
- 2/16/21 "The Kinked Pipeline to Growth Hormone Treatment: It's More than Just a Matter of Access," Pediatric Grand Rounds, Massachusetts General Hospital, Boston, MA.
- 3/20/21 "Genetic Disorders Affecting the Hypothalamus," Symposium 36: "Hypothalamus: When Development Goes Wrong," The 103rd Annual Meeting of The Endocrine Society: ENDO2021, virtual meeting. (postponed from the 2020 mtg in San Francisco that had been cancelled due to pandemic)
- 5/21/21 "Controversies about Testing, Assays, and Diagnosis of GH Deficiency," Pediatric Endocrine Seminar Series, UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA.
- 5/26/21 Pediatric GHD: Working Together to Ensure Success, Endocrine Society virtual webcast and online enduring CME/MOC activity.
- Lecture: "rhGH Therapies: GH and Adverse Events"
 - Lecture: "Potential Barriers to GH"
- Posted for a year at:
https://www.magnetmail.net/actions/email_web_version.cfm?ep=4R57DX0NHpZHrueRADP0x7CWOsAJE4jqQGy0No3PRgDFO9OejHAabZQCBsUCsF3YjUyssdtLYXe7QPhZ7OZGoqtzkKX0ydjdNKPipTGhaNnBmXyZ3kFmZXtHct3soEga

- 6/02/21 "Growth and Growth Disorders," Pediatric Endocrine Society Board Review Course, virtual meeting (pre-recorded).
- 6/09/21 "Debriefing Q and A Session," Pediatric Endocrine Society Board Review Course, virtual meeting (live-streamed).
- 10/01/21 "The Kinked Pipeline to Growth Hormone Treatment: It's More than Just a Matter of Access," Pavel Fort Memorial Lecture, Pediatric Grand Rounds, Cohen Children's Medical Center, Lake Success, NY.
- 10/19/21 "The Toward and Untoward Effects of Growth Hormone," Pediatric Endocrine Seminar Series, Columbia University Medical Center, New York, NY.

Organizing Roles in Scientific Meetings:

- 5/04/03 Co-moderator, The Endocrinology and Diabetes Bench Research Platform Session at the annual meeting of the Lawson Wilkins Pediatric Endocrine Society/Pediatric Academic Societies, Seattle, WA.
- 3/05/05 Moderator and featured speaker, Endocrinology Platform Session, The 17th Annual Meeting of the Eastern Society for Pediatric Research, Old Greenwich, CT.
- 3/31/05 Chair, Working Group 2 at the Workshop on Turner Syndrome: How can very early treatment start and/or GH dosing based on IGF-I titrating improve treatment outcome in young women with Turner syndrome? Vienna, Austria.
- 6/26/06 Co-Chair, Clinical Pediatric Endocrinology II, Oral Abstract Session, The 88th Annual Meeting of the Endocrine Society, Boston, MA.
- 2009 Original science abstract reviewer for The 8th Joint Meeting of the European Society for Paediatric Endocrinology and The Lawson Wilkins Pediatric Endocrine Society, New York, NY.
- 2010 Workshop abstract reviewer for the 2011 Joint Meeting of the Pediatric Academic Societies and Asian Society for Pediatric Research, Denver, CO.
- 9/28-30/10 Organizer, 3-day Visiting Professorship: Prof. Zvi Laron at the Children's Hospital of Philadelphia, Philadelphia, PA.
- Endocrine Society/Pfizer Visiting Professorships in Endocrinology Award
 - Three lectures
 - "The Description, Elucidation of Pathophysiology, and Treatment of Laron Syndrome (Primary GH Insensitivity)," Children's Hospital of Philadelphia Pediatric Grand Rounds (the inaugural Thomas Moshang, Jr. Memorial Lectureship)
 - "Insulin as a Growth Hormone: Are the New Insulin Analogues Mitogenic?" Children's Hospital of Philadelphia/Hospital of the University of Pennsylvania Endocrine Grand Rounds
 - "Effects of IGF-I Deficiency and Administration on Carbohydrate and Fat Metabolism," Children's Hospital of Philadelphia Nutrition Center Seminar
 - Two small group discussions
 - Pediatric Endocrinology Clinical Case Review
 - Career Development in Pediatric Endocrinology (for Fellows)
 - Individual meetings with faculty from Children's Hospital of Philadelphia and University of Pennsylvania

- 2011 Original science abstract reviewer for the 2012 Pediatric Academic Societies Annual Meeting, Boston, MA.
- 2012-2015 Member, Program Committee, Pediatric Endocrine Society.
- 5/05/13 Chair, Careers in Pediatric Endocrinology: A Panel Discussion, Workshop, 2013 Pediatric Academic Societies Annual Meeting, Washington, DC.
- 5/06/13 Co-Chair, Pediatric Growth Hormone Treatment: Entering a New Era, Symposium, 2013 Pediatric Academic Societies Annual Meeting, Washington, DC.
- 2/1/14 Chair, Oral Presentations 5, The 2nd International Conference on Nutrition and Growth, Barcelona, Spain.
- 2014 Original science abstract reviewer for the 16th International Congress of Endocrinology and Endocrine Society's 96th Annual Meeting & Expo, ICE/ENDO 2014, Chicago, IL.
- 10/16/15 Health Care Innovation Team, Wharton Israel Conference: How Do You Profit by Improving the World?, Philadelphia, PA.
- 3/17/16 Co-Chair, Social Preferences and Body Ideals Impact Growth, Nutrition and Health, Session, The 3rd International Conference on Nutrition and Growth, Vienna, Austria.
- 3/28/20 Co-Chair, Understanding and Treating Pediatric Growth Disorders, OR10 Session, the 102nd Annual Meeting of the Endocrine Society: ENDO2020, San Francisco, CA. (postponed due to pandemic)
- 2020-2023 Member, Annual Meeting Steering Committee (AMSC), The Endocrine Society
- 3/23/21 Moderator, Management of Pituitary Hormone Replacement Through Transition From Adolescence to Young Adulthood, M19 session, the 103rd Annual Meeting of the Endocrine Society: ENDO2021, virtual meeting.

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Research Publications, peer reviewed:

- 1) Adda Grimberg, Ruben Cerri, Marta Satin-Smith, and Pinchas Cohen, "The 'Two Bag System' for Variable Dextrose and Fluid Administration: Benefits in DKA Management," *Journal of Pediatrics*, 1999; 134: 376-378. PMID: 10064682.
- 2) Anna J. Janss, Adda Grimberg, Robert J. Ferry Jr., and Gordon Heller, "Neuro-Oncology/Endocrinology Interface: A Patient who Earned Her Salt," *Journal of Medical and Pediatric Oncology*, 1999; 33(4): 413-417. PMID: 10491556.
- 3) Robert J. Ferry, Jr., Andrea Kelly, Adda Grimberg, Samantha Koo-McCoy, Marcelle Shapiro, Kenneth E. Fellows, Benjamin Glaser, Lydia Aguilar-Bryan, Diane Stafford, and Charles A. Stanley, "Calcium-stimulated Insulin Secretion in Diffuse and Focal Forms of Congenital Hyperinsulinism," *Journal of Pediatrics*, 2000; 137: 239-246. PMID: 10931418. PMC4151173.
- 4) Adda Grimberg, Robert J. Ferry, Jr., Andrea Kelly, Samantha Koo-McCoy, Kenneth Polonsky, Benjamin Glaser, M. Allan Permutt, Lydia Aguilar-Bryan, Diane Stafford, Paul Thornton, Lester Baker, and Charles A. Stanley, "Dysregulation of Insulin Secretion in Children with Congenital

- Hyperinsulinism due to Sulfonylurea Receptor Mutations," *Diabetes*, 2001; 50: 322-328. PMID: 11272143. PMC3313678.
- 5) Andrea Kelly, Diva Ng, Robert J. Ferry, Jr., Adda Grimberg, Samantha Koo-McCoy, Paul Thornton, and Charles A. Stanley, "Acute Insulin Responses to Leucine in Children with Hyperinsulinism/Hyper-ammonemia Syndrome," *Journal of Clinical Endocrinology and Metabolism*, 2001; 86: 3724-3728. PMID: 11502802. PMC3313679.
 - 6) Adda Grimberg, Bingrong Liu, Peter Bannerman, Wafik S. El-Deiry, and Pinchas Cohen, "IGFBP-3 Mediates p53-Induced Apoptosis during Serum Starvation," *International Journal of Oncology*, 2002; 21: 327-335. PMID: 12118329. PMC4152903.
 - 7) Munenori Takaoka, Hideki Harada, Claudia D. Andl, Kenji Oyama, Yoshio Naomoto, Kelly L. Dempsey, Andres J. Klein-Szanto, Wafik S. El-Deiry, Adda Grimberg, and Hiroshi Nakagawa, "Epidermal Growth Factor Receptor Regulates Aberrant Expression of Insulin-like Growth Factor Binding Protein-3," *Cancer Research*, 2004; 64: 7711-7723. PMID: 15520175. PMC4140096.
 - 8) Adda Grimberg, Jessica K. Kutikov, Andrew J. Cucchiara, "Sex Differences in Patients Referred for Evaluation of Poor Growth," *Journal of Pediatrics*, 2005; 146(2): 212-216. PMID: 15689911. PMC4147725. *(reviewed in Growth, Genetics and Hormones 2005; 21(2): 31.)*
 - 9) Adda Grimberg, Carrie M. Coleman, Timothy F. Burns, Bruce P. Himelstein, Cameron J. Koch, Pinchas Cohen, Wafik S. El-Deiry, "p53-dependent and p53-independent Induction of Insulin-like Growth Factor Binding Protein-3 by Deoxyribonucleic Acid Damage and Hypoxia," *Journal of Clinical Endocrinology and Metabolism*, 2005; 90: 3568-3574. PMID: 15769996. PMC4145590.
 - 10) Niklas Finnberg, Seok-Hyun Kim, Emma E. Furth, Jue Judy Liu, Pierre Russo, David A. Piccoli, Adda Grimberg, and Wafik S. El-Deiry, "Non-Invasive Fluorescence Imaging of Cell Death in Fresh Human Colon Epithelia Treated with 5-Fluorouracil, CPT-11 and/or TRAIL," *Cancer Biology and Therapy*, 2005; 4: 937-942. PMID: 16251801. PMC4121850.
 - 11) Olga T. Hardy, Kara N. Smolinski, Albert C. Yan, Adda Grimberg. "PTU-associated Vasculitis in a Girl with Turner Syndrome and Graves' Disease," *Pediatric Emergency Care*, 2006; 22: 52-54. PMID: 16418614.
 - 12) Maria J. Henwood, Paul S. Thornton, Christina M. Preis, Claire Chee, and Adda Grimberg, "Reconciling Diabetes Management and the Ketogenic Diet in a Child with Pyruvate Dehydrogenase Deficiency," *Journal of Child Neurology*, 2006; 21: 436-439. PMID: 16901455.
 - 13) Adda Grimberg, Carrie M. Coleman, Zonggao Shi, Timothy F. Burns, Timothy K. MacLachlan, Wenge Wang, and Wafik S. El-Deiry, "Insulin-Like Growth Factor Binding Protein-2 is a Novel Mediator of p53 Inhibition of Insulin-Like Growth Factor Signaling," *Cancer Biology and Therapy*, 2006; 5: 1408-1414. PMID: 17102589. PMC1906874.
 - 14) Zonggao Shi, Maria J. Henwood, Peter Bannerman, Dalia Batista, Anelia Horvath, Marta Guttenberg, Constantine A. Stratakis, and Adda Grimberg, "Primary Pigmented Nodular Adrenocortical Disease Reveals Insulin-like Growth Factor Binding Protein-2 Regulation by Protein Kinase A," *Growth Hormone and IGF Research*, 2007; 17: 113-121. PMID: 17280861. PMC2577759.
 - 15) Adda Grimberg, Elizabeth Stewart, and Michael P. Wajnrajch, "Gender of Pediatric Recombinant Human Growth Hormone Recipients in the United States and Globally," *Journal of Clinical Endocrinology and Metabolism*, 2008; 93: 2050-2056. PMID: 18334582. PMC2435638.

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- 16) Klaus Mohnike, Oliver Blankenstein, Andreas Pfuetzner, Simone Pötzsch, Ewald Schober, Stephan Steiner, Olga T. Hardy, Adda Grimberg, and W.M. van Waarde, "Long-term Non-surgical Therapy of Severe Persistent Congenital Hyperinsulinism with Glucagon," *Hormone Research*, 2008; 70: 59-64. PMID: 18493152.
- 17) Yukio Kawahara, Adda Grimberg, Sarah Teegarden, Cedric Mombereau, Sui Liu, Tracy Bale, Julie Blendy, and Kazuko Nishikura, "Dysregulated Editing of Serotonin 2C Receptor mRNAs Results in Energy Dissipation and Loss of Fat Mass," *Journal of Neuroscience*, 2008; 28: 12834-12844. PMID: 19036977. PMC2615198.
- 18) Adda Grimberg, Mark Ramos, Robert Grundmeier, Kristen A. Feemster, Susmita Pati, Andrew J. Cucchiara, and Virginia A. Stallings, "Sex-Based Prevalence of Growth Faltering in an Urban Pediatric Population," *Journal of Pediatrics*, 2009; 154: 567-572.e2. PMID 19081114. PMC4114727.
- 19) Roy J. Kim, Rachana Shah, Andy M. Tershakovec, Babette S. Zemel, Leslie N. Sutton, Adda Grimberg, and Thomas Moshang, "Energy Expenditure in Obesity Associated with Craniopharyngioma," *Childs Nervous System*, 2010; 26: 913-917. PMID 20107994. PMC2883002.
- 20) Christina B. Bales, Binita M. Kamath, Pedro S. Munoz, Alexander Nguyen, David A. Piccoli, Nancy B. Spinner, David Horn, Justine Shults, Mary B. Leonard, Adda Grimberg,* and Kathleen M. Loomes (*Drs. Grimberg and Loomes declare joint responsibility for senior authorship), "Pathologic Lower Extremity Fractures in Children with Alagille Syndrome," *Journal of Pediatric Gastroenterology and Nutrition*, 2010; 51: 66-70. PMID: 20453673. PMC2893241.
- 21) Adda Grimberg, Kristen A. Feemster, Susmita Pati, Mark Ramos, Robert Grundmeier, Andrew J. Cucchiara, and Virginia A. Stallings, "Medically Underserved Girls Receive Less Evaluation for Short Stature," *Pediatrics*, 2011; 127(4): 696–702. PMID: 21422085. PMC3065076.
- 22) Lori S. Hart, Nathan G. Dolloff, David T. Dicker, Constantinos Koumenis, James G. Christensen, Adda Grimberg, and Wafik S. El-Deiry, "Human Colon Cancer Stem Cells are Enriched by Insulin-like Growth Factor-1 and are Sensitive to Figitumumab," *Cell Cycle*, 2011;10: 2331-2338. PMID: 21720213. PMC3322474.
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- 25) Saeed Mohammad, Adda Grimberg, Elizabeth Rand, Ravinder Anand, Wanrong Yin, Estella M. Alonso, and the Studies of Pediatric Liver Transplantation (SPLIT) Research Consortium, "Long-Term Linear Growth and Puberty in Pediatric Liver Transplant Recipients," *Journal of Pediatrics*, 2013; 163:1354-1360.e7. PMID: 23916225. PMC4155930.
- 26) Kosuke Izumi, Ryan Housam, Chirag Kapadia, Virginia A. Stallings, Livija Medne, Tamim H Shaikh, Bassil M. Kublaoui, Elaine H. Zackai, and Adda Grimberg, "Endocrine Phenotype of

- 6q16.1-q21 Deletion Involving *SIM1* and Prader-Willi Syndrome-like Features,” American Journal of Medical Genetics, 2013; 161:3137-3143. PMID: 24038875.
- 27) Pamela A. Cousounis, Terri H. Lipman, Kenneth Ginsburg, Andrew J. Cucchiara, and Adda Grimberg, “How Short is Too Short According to Parents of Primary Care Patients,” Endocrine Practice, 2014; 20:1113-1121. PMID: 24936551. PMC4262696.
- 28) Adda Grimberg, Lina Huerta-Saenz, Robert Grundmeier, Mark Jason Ramos, Susmita Pati, Andrew J. Cucchiara, and Virginia A. Stallings, “Gender Bias in U.S. Pediatric Growth Hormone Treatment,” Scientific Reports, 2015; 5:11099; doi: 10.1038/srep11099. PMID: 26057697. PMC4650610.
- 29) Colin P. Hawkes, M Mavinkurve, Miriam Fallon, Adda Grimberg, and Declan C. Cody, “Serial GH Measurement after Intravenous Catheter Placement Alone can Detect Levels above Stimulation Test Thresholds in Children,” Journal of Clinical Endocrinology and Metabolism, 2015; 100:4357-4363. PMID: 26418286.
- 30) Adda Grimberg, Pamela Cousounis, Andrew J. Cucchiara, Terri H. Lipman, and Kenneth R. Ginsburg, “Parental Concerns Influencing Decisions to Seek Medical Care for a Child’s Short Stature,” Hormone Research in Paediatrics, 2015; 84(5):338-348. PMID: 26448482. PMC5576168.
- 31) Terri H. Lipman, Pamela Cousounis, Robert W. Grundmeier, James Massey, Andrew J. Cucchiara, Virginia A. Stallings, and Adda Grimberg, “Electronic Health Record Mid-Parental Height Auto-calculator for Growth Assessment in Primary Care,” Clinical Pediatrics, 2016; 55:1100-1106. PMID: 26507248. PMC5576174.
- 32) Colin P. Hawkes, Adda Grimberg, Vivian E. Dzata, and Diva D. De Leon, “Adding Glucagon Stimulated GH Testing to the Diagnostic Fast Increases the Detection of GH Sufficient Children,” Hormone Research in Paediatrics, 2016; 85(4):265-272. PMID: 26982479. PMC4865421.
- 33) Michal Marzec, Colin P. Hawkes, Davide Eletto, Sarah Boyle, Ron Rosenfeld, Vivian Hwa, Jan-Maarten Wit, Hermine A. van Duyvenvoorde, Wilma Oostdijk, Monique Losekoot LuCamp, Bu Beng Yeap, Leon Flicker, Gil Atzmon, Nir Barzilai, Adda Grimberg, and Yair Argon, “A Human Variant of GRP94 that Inefficiently Supports IGF Production,” Endocrinology, 2016; 157(5):1914-1928. PMID: 26982636. PMC4870884.
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- 35) Colin P. Hawkes, Deirdre M. Murray, Louise C. Kenny, Mairead Kiely, Jonathan O’B. Hourihane, Alan D. Irvine, Klaudia Sikora, Zeng R. Wu, Yair Argon, Richard E. Reitz, Michael J. McPhaul, and Adda Grimberg, “Correlation of Insulin-like Growth Factor-I and -II Concentrations at Birth Measured by Mass Spectrometry and Growth from Birth to Two Months,” Hormone Research in Paediatrics, 2018; 89(2):122-131. PMID: 29402777.
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- 36) Adda Grimberg, Anders Lindberg, Michael Wajnrajch, Andrew J. Cucchiara, and Cecilia Camacho-Hübner, “Racial/Ethnic Disparities in U.S. Pediatric GH Treatment,” Hormone Research in Paediatrics, 2018;90(2):102-108. PMID: 30130795. PMC6220671.

- 37) Colin P. Hawkes, Adda Grimberg, Louise C. Kenny, Mairead Kiely, Jonathan O'B Hourihane, Alan D. Irvine, Babette S. Zemel, Deirdre M. Murray, "The Relationship Between IGF-I and -II Concentrations and Body Composition at Birth and Over the First Two Months of Life," *Pediatric Research*, 2019; 85(5):687-692. PMID: 30745570. PMC6435390.
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- 40) Kenneth D. Mandl, Tracy Glauser, Ian D. Krantz, Paul Avillach, Anna Bartels, Alan H. Beggs, Sawona Biswas, Florence T. Bourgeois, Jeremy Corsmo, Andrew Dauber, Batsal Devkota, Gary R. Fleisher, Allison P. Heath, Ingo Helbig, Joel N. Hirschhorn, Judson Kilbourn, Sek Won Kong, Susan Kornetsky, Joseph A. Majzoub, Keith Marsolo, Lisa J. Martin, Jeremy Nix, Amy Schwarzhoff, Jason Stedman, Arnold Strauss, Kristen L. Sund, Deanne M. Taylor, Peter S. White, Eric Marsh, Adda Grimberg, Colin Hawkes; the Genomics Research and Innovation Network. Correction: The Genomics Research and Innovation Network: Creating an Interoperable, Federated, Genomics Learning System. *Genetics in Medicine*. 2020; 22(2):371-380. PMID: 31481752. PMC7000329. Correction: *Genet Med*. 2020;22(2):449. PMID: 31772351.
- 41) Catalina Cabrera-Salcedo, Colin P. Hawkes, Leah Tyzinski, Melissa Andrew, Guillaume Labilloy, Diego Campos, Amalia Feld, Annalisa Deodati, the Genomics Research and Innovation Network, Vivian Hwa, Joel Hirschhorn, Adda Grimberg, and Andrew Dauber; the Genomics Research and Innovation Network, "Targeted Searches of the Electronic Health Record and Genomics Identify an Etiology in Three Patients with Short Stature and High IGF-I Levels," *Hormone Research in Pediatrics*, 2019; 92(3):186-195. PMID: 31865343. PMC7173346.
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- 49) Adda Grimberg, Etya R. Fremont, Reyneris J. Robles, Elizabeth A. Friedrich, and Victoria A. Miller, "Similarities and Differences between Youth and Parents' Perceptions of the Impact of Short Stature on Quality of Life," in preparation.
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Research Publications, peer-reviewed reviews:

- 1) Adda Grimberg, "Mechanisms by which IGF-I May Promote Cancer," *Cancer Biology and Therapy*, 2003; 2(6): 630-635. PMID: 14688466. PMC4164051.
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- 3) Jennifer A. Sutter and Adda Grimberg, "Adrenocortical Tumors and Hyperplasias in Childhood – Etiology, Genetics, Clinical Presentation and Therapy," *Pediatric Endocrinology Reviews*, 2006; 4(1): 366-373. PMID: 17021581. PMC1907361.
- 4) Roy J. Kim and Adda Grimberg, "Potential Non-Growth Uses of rhIGF-I," *Growth, Genetics and Hormones*, 2007; 23(1): 1-7. PMID: 19081780. PMC2600514.
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Receiving Growth Hormone Therapy– A Report from the Pediatric Endocrine Society Drugs and Therapeutics Committee,” *Journal of Clinical Endocrinology and Metabolism* 2015; 100(6): 2192-2203. PMID: 25839904. PMC5393518.

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- 9) Emma Wakeling, Frédéric Brioude, Kemi Lokulo-Sodipe, Susan O'Connell, Jennifer Salem, Jet Blied, Ana Canton, Krystyna Chrzanowska, Justin Davies, Renuka Dias, Beatrice Dubern, Miriam Elbracht, Eloise Giabicani, Adda Grimberg, Karen Groenskov, Anita Hokken-Koelega, Alexander Jorge, Masayo Kagami, Agnes Linglart, Mohamad Magnnie, Klaus Mohnike, David Monk, Gudrun Moore, Philip Murray, Tsutomu Ogata, Isabelle Oliver, Silvia Russo, Edith Said, Meropi Toumba, Zeynep Tumer, Gerhard Binder, Thomas Eggemann, Madeleine Harbison, Karen Temple, Deborah Mackay, Irene Netchine, “Diagnosis and Management of Silver-Russell Syndrome: First International Consensus Statement,” *Nature Reviews Endocrinology*, 2017;13(2):105-124. PMID: 27585961.
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- 10) Adda Grimberg, Sara A. DiVall, Constantin Polychronakos, David B. Allen, Laurie E. Cohen, Jose Bernardo Quintos, Wilma Rossi, Chris Feudtner, and M. Hassan Murad on behalf of the Drug and Therapeutics Committee and Ethics Committee of the Pediatric Endocrine Society, “Guidelines for Growth Hormone and Insulin-like Growth Factor-I Treatment in Children and Adolescents: Growth Hormone Deficiency, Idiopathic Short Stature, and Primary Insulin-like Growth Factor-I Deficiency,” *Hormone Research in Paediatrics*, 2016; 86(6): 361-397. PMID: 27884013.
(selected for the journal issue cover and journal website as Editor's Pick)
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- 12) Camilia Kamoun, Colin P. Hawkes, and Adda Grimberg, “Provocative Growth Hormone Testing in Children: How Did We Get Here and Where Do We Go Now?,” *Journal of Pediatric Endocrinology and Metabolism*, 2021; 34(6):679-696. PMID: 33838090.

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Alternative Media:

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- 3) Adda Grimberg, "Growth in Alagille Syndrome," Alagille Syndrome: A Symposium by the Staff of the Children's Hospital of Philadelphia (DVD), Children's Hospital of Philadelphia Alagille Center, 2004.
- 4) Adda Grimberg, "Frequently Asked Questions" page of the Children's Hospital of Philadelphia Diagnostic and Research Growth Center web site, 2005.
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- 7) Adda Grimberg, "Recall Alert: Lot 8 Quick-Set Infusion Sets for MiniMed Paradigm Insulin Pumps," News Alert Section of the Lawson Wilkins Pediatric Endocrine Society Webpage, posted July 13, 2009.
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- 9) Anna Nguyen (interview of Vaneeta Bamba, Adda Grimberg, and Mitchell E. Geffner), "How Tall Will I Be? What helps you grow and how to predict your future growth." WebMD Feature article, <http://teens.webmd.com/features/how-tall-will-i-be>, posted June 13, 2011.
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- 12) Adda Grimberg, "What's Getting in the Way? Common Barriers to Treatment Success," MyCME webinar, Pediatric GHD: Working Together to Ensure Success (online enduring CME/MOC activity), sponsored by the Endocrine Society and the France Foundation, and supported by Pfizer Inc. and Sandoz Inc.
- 13) Adda Grimberg, reviewed a paper (PMID: 27974186: "Classical and Non-classical Causes of GH Deficiency in the Paediatric Age") and wrote four corresponding questions and answers/explanations for "Short Stature Self-Assessment," Pediatric Endocrine Society/American Board of Pediatrics Maintenance of Certification Part 2 self-assessment

activity, <https://cont-certification.abp.org/moc/moc-dashboard/moc-activities/self-assessment/activity-details/17888>, posted June 22, 2021.

- 14) Adda Grimberg, "Growth Matters," Inside Practice Australia (the leading national GP-television and masterclass network in Australia) webinar, recorded August 25, 2021.

Patents:

- 1) Yair Argon and Adda Grimberg, Compositions and Methods for the Diagnosis and Treatment of Primary Insulin-like Growth Factor Deficiency (PIGFD) and Idiopathic Short Stature (ISS), Patent Number PCT/US11/38174, patent pending (filed May 26, 2011).

Inventions:

- 1) Arm span measuring device (2018)

Selected coverage of research in the lay press:

- 1) Eric Nagourney. Short shrift for little girls. Science Times. 2005 Feb 15.
This article reported the findings of my Journal of Pediatrics publication (PMID: 15689911); girls were referred to the endocrine clinic for evaluation of short stature half as often as boys, yet had greater height deficits (relative to both the general population and their mid-parental target heights) and were more likely to have an identifiable underlying disease. My study was also covered in numerous print, television and radio settings throughout the U.S. and abroad.
- 2) Stephen S. Hall. The short of it: more short children are being given growth hormone in the hope that an extra inch will protect their supposedly fragile psyches. But research suggests that their height is a problem less for them than for us. New York Times Sunday Magazine. 2005 Oct 16; 54-59.
This article reviewed issues related to recombinant human growth hormone therapy at the 20th anniversary of its commercial use. In addition to presenting the results of my Journal of Pediatrics publication (PMID: 15689911), this article included my comments as an expert in the field of child growth and growth hormone therapy. I have been similarly interviewed as a growth expert for numerous articles in the print, internet and radio media.
- 3) Stephen S. Hall. Size Matters: How height affects the health, happiness, and success of boys – and the men they become. Houghton Mifflin Co., Boston, 2006.
Authored by an award-winning science journalist, this book integrated the social, cultural, psychological, and political ramifications of human growth and its treatment with the biological and historical aspects of its physiology and therapies. Intended for both the lay public and the professional medical community, this book highlighted my referral bias study, my research on the molecular biology of the growth hormone/insulin-like growth factor axis, and the author's visit to the Children's Hospital of Philadelphia to learn about proper growth measurement and other aspects of my clinical care.
- 4) Live interview, Good Day, Fox 29, Philadelphia, 2015 June 18.
In addition to coverage in multiple internet and print settings, my Scientific Reports publication (PMID: 26057697) on gender disparities in U.S. pediatric growth hormone treatment was highlighted in this live TV interview. Although boys outnumbered girls 3:1 for the idiopathic short stature (ISS) indication and 2:1 for all indications in the four U.S.

pediatric growth hormone registries (93,736 subjects), there were no gender differences in the prevalence of short stature severe enough to qualify for GH treatment of ISS or in the distributions of heights in a pediatric primary care population of 189,280 patients.

- 5) Jane E. Brody. Weighing the Use of Growth Hormones for Children. Personal Health, The New York Times. 2021 March 29.

This article presented Jane Brody's interview of me as inspired by my invited editorial published in JAMA Pediatrics (PMID: 33346801). The editorial, accompanying a study from Sweden that reported increased risk of cardiovascular disease in adults who had received growth hormone treatment during childhood, summarizes the current status of evidence regarding the safety of growth hormone treatment and the need for continued scrutiny. It also highlighted our study on the concerns and unrealistic expectations of parents seeking sub-specialist care for their child's short stature, published in Hormone Research in Paediatrics in 2019 (PMID: 32229729). The NY Times article cited recommendations from the Pediatric Endocrine Society, whose growth hormone guidelines I had chaired and first-authored (Hormone Research in Paediatrics, 2016; PMID: 27884013).