

March 19, 2021



*Signature/Date of Preparation*

**ELIZABETH E. PUSCHECK, M.D., M.S., M.B.A., F.A.C.O.G., F.A.I.U.M.**

**CONTACT:**

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**CLINICAL PRACTICE:**

InVia Fertility

1585 N. Barrington Road,  
Doctors Building Two, Suite 406  
Hoffman Estates, IL 60169

Office phone: 847-884-8884

**HOME ADDRESS:**

1605 E. Central Road, Unit 216B  
Arlington Heights, IL 60005

Cell Phone: (313) 378-8215

Personal Email: [epushec@gmail.com](mailto:epushec@gmail.com)

**EDUCATION:**

BA with Honors in Biology 1979-1983

BA eligible in Anthropology

University of Chicago

Chicago, IL 60637

Graduate Study, MS in Human Biology (ASHUM) 1983-1985

University of Chicago

Chicago, IL 60637

Medical Degree 1985-1987

Washington University Medical School

St. Louis, MO

University of Tennessee Knoxville Physicians Executive MBA 2016

**POSTGRADUATE TRAINING:**

**RESIDENCY:**

Barnes Hospital 1987-1991

St. Louis, MO

Intern, Resident, Chief Resident

**FELLOWSHIP:**

Reproductive Endocrine, Infertility, and Genetics Medical College of Georgia Augusta, GA	1991-1993
<b>SPECIALIZED TRAINING:</b>	
APGO/Solvay Educational Scholar (First class), graduate	1997-1999
Executive Leadership in Academic Medicine	2010-2011
Harvard Chiefs Program	2013
<b>ADDITIONAL TRAINING</b>	
Advanced Endnote 1 Wayne State University School of Medicine Fridays @ Shiffman Learning Café Series	2004
Manuscript Writing Program Wayne State University School of Medicine Shiffman Medical Library	2004
Faculty Development, AAMC	2018
<b>Recertified:</b>	
Bone Densitometry	2004-2014
International Society for Clinical Densitometry Certified Clinical Densitometrist (CCD) (original certification 10/2001)	
Basic Life Support (current, expires 2022)	
Advanced Cardiac Life Support (ACLS expires 2022)	
Pfizer Clinical Investigator Training Program	2005
HIPAA Trainer	2005, 2018, 2020
Citi modules Good Clinical Practice (continuous updates)	Current
<b>FACULTY APPOINTMENTS:</b>	
Professor w/tenure, Department of Obstetrics & Gynecology Wayne State University School of Medicine	2010-present
Professor of Obstetrics and Gynecology Wayne State University School of Medicine	2009-2010
Associate Professor Wayne State University School of Medicine	2004-2009
Assistant Professor Wayne State University School of Medicine	2000-2004
Assistant Professor	1995-2000

Northwestern University Medical School

Instructor Northwestern University Medical School	1993-1995
<b>OTHER LEADERSHIP ROLES</b>	
REI Site Director for InVia Fertility Clinical Rotation	2019-present
REI Division Director	2013-2017
REI Fellowship Director	2013-2017
Kamran Moghissi Endowed Chair Wayne State University School of Medicine	2013-2020
Chairman Frank P. Iacobell Endowed Chair in Obstetrics and Gynecology Department of Obstetrics and Gynecology Hutzel Woman's Hospital Detroit Medical Center/Wayne State University School of Medicine	2010-2015
Specialist-In-Chief Obstetrics & Gynecology Detroit Medical Center (3 hospitals and 2 surgicenters)	2010-2015
Specialist-In-Chief Karmanos Cancer Institute Obstetrics and Gynecology	2010-2015
Program Director, Obstetrics and Gynecology Residency Detroit Medical Center/Wayne State University School of Medicine	2010-2015
In Vitro Fertilization Director Gynecologic Ultrasound Director Clinical Endocrine Laboratory Consultant Department of Obstetrics and Gynecology University Women's Care Southfield, MI	2001-2016
Medical Director University Women's Care Department of Obstetrics and Gynecology (clinical practice site) Southfield, MI	2001-2005
Officer: Secretary/Treasurer (Elected) Northwestern Medical School Faculty Senate Chicago, IL	1999-2000
Representative (elected) Northwestern Medical School Faculty Senate Chicago, IL	1997-2000

**MAJOR PROFESSIONAL SOCIETIES:**

American Board of Obstetrics and Gynecology (ABOG)  
 American College of Obstetrics and Gynecology (ACOG)  
 American Gynecologic and Obstetric Society (AGOS)  
 American Society for Reproductive Medicine (ASRM)  
 Association of Professors of Gynecology and Obstetrics (APGO)  
 American Institute of Ultrasound in Medicine (AIUM)  
 Committee of University Chairs of Obstetricians and Gynecologists (CUCOG)  
 Endocrine Society  
 International Society for Clinical Densitometry (ISCD)  
 Sigma Xi  
 Society of Assisted Reproductive Technology (SART)  
 Society for Reproductive Endocrinologists and Infertility (SREI)  
 Society of Reproductive Surgeons (SRS)  
 Turner's Syndrome Society  
 World Endometriosis Society  
 Fellow, Detroit Medical Academy 2012 - present

**LICENSURE AND BOARD CERTIFICATION:**

Board Certified, Subspecialty: Reproductive Endocrine and Infertility- Current/Active (Annual Board Certification process) ABOG ID#917626 Current. 1996-present

Board Certified, American Board of Obstetrics and Gynecology Current/Active (Annual Board Certification process) ABOG ID#917626 Current. 1994-present

Board Certified, National Board Medical Examiners 1988

California Certificate (retired status) 1994-2020

Illinois License, Issued (active status) 1993-2020

Michigan License (active status) 2000-2022

**HONORS/AWARDS:**

Administrative Executive Chief Resident at Washington University 1990-1991

APGO/Solvay Educational Scholar (First class), graduate 1997-1999

APGO Excellence in Teaching Award 1999

Scholarship Award from Northwestern University Medical Women's Faculty Organization to attend the AAMC Professional Development Seminar for Junior Women Faculty 1999

Honored member of Swathmore's Who's Who Millennium Edition 2000-2001

First Prize Poster at ASRM Annual Meeting 2001

Academic Keys Who's Who in Medical Sciences Education 2005

International Health Professional of the Year 2007

International Biographical Centre, Cambridge, England.

Who's Who Among American Teachers & Educators, 11<sup>th</sup> Edition 2007

America's Top Obstetricians and Gynecologists, 2009-2019

Consumer's Research Council of America, Washington, D.C.	
Executive Leadership in Academic Medicine Program for Women (ELAM)	2010-2011
Keynote Speaker, SWIMS (Spotlight on Women in Medicine & Science) and Visiting Professor. Washington University, St. Louis, MO	2011
Co-Chair, American Society for Reproductive Medicine Postgraduate Course on "Ultrasound Imaging in Reproductive Medicine". Orlando, Florida	2011
"Compassionate Doctor Award", American Registry, LLC. (This award is based on reviews written by hundreds of thousands of patients. While physicians generally receive positive feedback from their patients, Only a select few receive praise about the compassion that accompanied their care. In fact, of the nation's 720,000 active physicians, less than 3% were accorded this honor by their patients in 2011.)	2011
"TOP DOCTOR", Global Director of Who's Who honoring Executives and professionals based on contributions made in Obstetrics & Gynecology.	2011-present
"William Heath Byford Award", Northwestern University Feinberg School of Medicine, Department of Obstetrics & Gynecology Resident Alumni Day. Award presented to individual who made major contribution to the specialty.	2011
ASRM Star Award. Awarded to reproductive health professionals who have presented at least 9 of the last 10 ASRM Annual Meetings.	2013-2020
Fellow of the American Institute of Ultrasound in Medicine	2019 –present
International Women's Leadership Association	2015
Fertility and Sterility Most Valued Reviewer	2015
Chaperoned the Grosse Pointe South Orchestra trip to Austria	2015
Chaperoned the Grosse Pointe South Orchestra trip to Germany	2015
Chaperone for Grosse Pointe South High School German Trip	2016
Consumer Reports Top OB/GYN	2014-present

**SERVICE:**

**Detroit Medical Center**

DMC, Graduate Medical Education Committee	2012-present
DMC, Peer Review Committee, Chair	2014-2015
DMC, Harper/Hutzel OB/GYN Council Committee	2014-2015
DMC/Vanguard, Pediatric Critical Care Council Committee	2013-2015
DMC/Vanguard, Obstetric Clinical Council Committee	2013-2015
DMC, High Reliability Organization Committee (HRO)	2012-2015
DMC, Medical Staff Operations Committee (MSOC)	2012-2015
DMC OB/GYN Residency Steering Committee	2011-2014
DMC, OB/GYN Advisory Committee	2010-2015

DMC Harper/Hutzel OB/GYN Business Meeting, Chair	2010-2015
DMC, Specialist-in-Chief Meeting	2010-2015
DMC, Department Chief's Quarterly Meeting, Chair	2010-2015
DMC, Executive Management Team Committee (EMT)	2010-2015

## **Wayne State University**

### **Divisional**

REI Fellowship Annual Program Evaluation Committee "meets Quarterly for progress report"	2013-present
REI Fellowship Clinical Competency Committee	2013-2017
Divisional Meetings	2000-present
REI Journal Club	2000-present
Combined REI, Medical Endocrine, and Pediatric Endocrine Quarterly meetings	2008-present

### **Departmental**

WSU OB/GYN Faculty and Resident Steering Committee	2001
WSU OB/GYN Residents' Research Paper Judge	2002
WSU OB/GYN Residency Competency Committee	2002
WSU OB/GYN Departmental Advisory Committee	2008-present
Chair, Wayne Day* (postgraduate course)	2009
WSU OB/GYN Residency Program Director	2011-2015
WSU Reproductive Endocrinology and Infertility Fellowship Director	2013-2017
WSU REI/Medical Genetics Fellowship Director (1 <sup>st</sup> in the country)	2014-2017
WSU Reproductive Endocrinology and Infertility Division Director	2014-2017
WSU OB/GYN Clinical Competency Committee	2014-2017
WSU OB/GYN Program Evaluation Committee	2014-2017
Departmental Meeting Executive Committee, Member	2010-2016
WSU OB/GYN Departmental Promotion and Tenure committee	2010-2017
WSU OB/GYN Selective Salary Committee	2010-2017

### **Wayne State University - School of Medicine**

WSU SOM Executive Committee Vice President	2017-2019
WSU SOM Bylaws Subcommittee	2011-2013
WSU SOM Factors and Guidelines for Promotions and Tenure Clinician Educators Subcommittee, Chair	2006-2010
WSU SOM Committee on the Revision of the Factors and Guidelines for Promotion and Tenure	2006-2010
WSU SOM School of Medicine, Faculty Senate Executive Committee	2006-2008
Re-elected	2008-2010
Re-elected	2015-2019
WSU SOM Department of Internal Medicine Internal Review Committee	2005-2006
Multiple Workshops on the P&T Process	2004-2010

### **Wayne State University**

WSU Academic Senate Faculty Representative	2005-2017
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Re-elected (2008, 2011, 2014)	
WSU Provost's Mentoring Committee	2012
WSU Faculty Mentoring Committee	2011
WSU Board of Governors Faculty Representative for the Personnel Committee	2010-2011
WSU Taskforce on the Strategic Plan for Teaching and Learning, Chair, Associate Provost Steve Calkins	2009
WSU Faculty Affairs Committee	2005-2017
Committee Sponsored, organized and presented - "Financing Your Retirement in Turbulent Times".	2/25/09
Best Practices for Faculty Teaching Evaluations- AAUP-AFT Academic Forum	2017
<b>UPG (WSU Physician Practice Plan)</b>	
WSU University Physician Group (UPG) Board of Directors	2011-2015
WSUPG Executive Board of Directors	2010-2015
Re-elected	2014-2016
WSUPG Ad-hoc Bylaw Committee	2013-2015
WSUPG Governance/Nominating Committee	2013-2015
WSUPG Strategic Planning Committee	2012-2014
UPG OB/GYN Departmental Practice Committee	2008-2015
Departmental Advisory Committee	2008-2015
Medical Director - <i>University Women's Care (UWC)/</i> <i>University Physician's Group (UPG) -Southfield</i> Leads/Administrative Committee	2001-2005
<b><i>Patient Care</i></b>	2001-2017
Approximately 4 office sessions/week which consist of: Reproductive Endocrine and Infertility (REI) and Gynecology patients Supervision of Sonographers: in REI and Gynecologic Ultrasound Approximately 1-2 sessions/week Gynecologic surgery Approximately 1-2 sessions/week of Office procedures Approximately 1 session equivalent/week IVF Meeting (5-7 hours/week), 1-2 hours/week Chair: to review and approve patients entering IVF or to make recommendations after completing an IVF cycle, overall review of the program, Review any new FDA regulations regarding Gamete Donation, Review of any new SART/CDC recommendations for reporting IVF data, Review CAP, CLIA, and FDA site visits and prepare for them.	
Childrens Hospital Girls with Bleeding Disorders Clinic (monthly)	2014-2017
Approximately 2 office sessions at InVia Fertility	2017-present
Approximately 2-3 office sessions for procedures	2017-present
Daily Noon IVF meetings (7 days/week)	2001-2017
Patient Management	2001-2017
<b>Affiliate Medical Organizations</b>	
Oakwood Ventures Board of Trustees	2012-2015
DMC Specialist in Chief	2010-2015
Karmanos Specialist in Chief	2010-2015

**Professional**

Illinois State Medical Society Alternate Delegate	2018-2019
Detroit Medical Academy	2012-2018
Michigan Osteoporosis Society- Member	2002-2017

**Consulting**

Abbott Laboratory Consulting	1996
Ethicon Surgical	1998
Roche and GlaxoSmithKline Laboratories, BONIVA® Ob/Gyn Advisory Board Meeting for Osteoporosis	2004
Eli Lilly Evista Advisory Board	2006-2008
Ferring Advisory Board	2007-2008
Femasys	2017-present
Guerbet	2018

**SCHOLARLY SERVICE:****Local Hospital Committees**

Hutzel Women's Hospital Visioning Committee	2001
Hutzel Hospital Steering Committee	2002

**National Boards and Committees**

American College of Obstetrics and Gynecology (ACOG) Annual Meeting Abstract Selection Committee	2003
Prolog committee for the REI edition	2018-2019

AIUM CME Committee	2008-2014
AIUM Board of Directors	2011-2014
AIUM Collaborative Committee to Revise Guidelines for the Performance of Pelvic Ultrasound	2013-2016
AIUM Chair of the Focused REI Practice Guideline	2017-2018
AIUM Gynecologic Community Secretary	2020
AIUM Senior Member	2014-2019
AIUM Fellow	2019-present

Associate of Professors of Gynecology and Obstetrics (APGO) Undergraduate Medical Education Committee (UMEC)	2000-2006
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American Society for Reproductive Medicine (ASRM): Website Committee Member at Large	2003-2009
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American Society for Reproductive Medicine (ASRM): Women's Council Member at Large	2000-2001
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Council Co-Chair	2002-2003
Council Chair	2004-2005
American Society for Reproductive Medicine (ASRM): Post Graduate Courses	
Program Coordinator	2004
Program Co-Chair	2005
Program Chair	2006
American Society for Reproductive Medicine (ASRM) Board of Directors	2006-2009
American Society for Reproductive Medicine (ASRM) Publications Committee	2006-2009
Chair	2008-2009
American Society for Reproductive Medicine (ASRM) Sexuality Special Interest Group (SSIG)	
Abstract Committee	2005-2008
Secretary	2008-2009
Vice Chair	2009
Chair	2009-2011
American Society for Reproductive Medicine (ASRM) Imaging Special Interest Group	
Abstract Committee	2008-present
Secretary	2008-2009
Chair	2009-2010
ASRM Prize Poster Committee (10/28-11/1/2017 San Antonio, TX)	2017
American Society for Reproductive Medicine (ASRM) Taskforce for the Fertility and Sterility	
Editorial Transition Team	2008-2011
Editorial Board	2008- present
American Society for Reproductive Medicine (ASRM) Coding Committee	2010-2016
ASRM/Society for Reproductive Endocrinology and Infertility (SREI) Member Services Committee	
Chair	2013-2014
SREI Board of Directors	2012-2014
ASRM Pediatric and Adolescent Special Interest Group Abstract Committee	2020
Council of University Chairs of Obstetrics & Gynecology (CUCOG) CUCOG Fellowship Program, Chair	2015

CREOG/APGO Annual Meeting Moderator and Abstract Judge	2012
Femasys Femblock Clinical Events Committee (similar to a Data Monitoring Committee)	2019- present
Society for Radiologists in Ultrasound Invited Consensus Panel Expert (1 of 14) Asymptomatic Ovarian Masses “Consensus Paper” approved for Publication in Radiology	10/2009
United States Medical License Exam Test Material Development Committee:	
Clinical Pathophysiology	1999-2000
Introduction to Clinical Diagnosis	2001-2002
OB/GYN Step 2 Test Reviewer	2003
<b>Grant Review and Award Selection Committee</b>	
The Association of Professors of Gynecology and Obstetrics Foundation Awards Selection Committee	2004, 2005
<b>National</b>	
American Board of Obstetrics and Gynecology Reproductive Endocrine and Infertility Subspecialty Oral Examiner Test item writer for the written and oral REI boards	2009-present
NIH SBIR/STTR Grant Review committee Small Business Endocrinology, Metabolism, Nutrition, And Reproductive Sciences (EMNR) Integrative Grant Review ZRG-1 EMNR-D10 Review Meeting March 19-20, 2020 Yun-Shang Piao, Ph.D., SRO	2017, 2018, 2020  2020
NIH Women’s Reproductive Health Research (WRHR) Program (K12) RFA-HD-20-013 WRHR Program (ZHD1 DSR Z 55) Peter Zelazowski, PhD. As SRO	4/29-4/30/2020
NIH 2020/08 ZRG1 EMNR-D(10) Small Business: Diabetes, Metabolism, Nutrition and Obesity. SRO: Yun-shang Piao, Ph.D.	June 25-26, 2020.
NIH 2020/08 ZRG1 EMNR-D(11) Small Business: Reproductive Sciences. SRO: Yun-shang Piao, Ph.D.	June 25-26, 2020.
NIH 2021/01 ZRG1 EMNR-D(10) B. Small Business: Diabetes, Metabolism, Nutrition and Reproductive Sciences. SRO: Yun-shang Piao, Ph.D.	November 19-20, 2020.

NIH 2021/01 ZRG1 EMNR-D(55) R.  
HD21-007: Development of Fertility Regulation Methods  
by Small Business. SRO: Yun-shang Piao, Ph.D.

November 19-20, 2020.

NICHD: Reproductive Medicine Collaborative 2019  
Clinical Trials Program (Collaborative R01 Clinical Trial Required)  
RFA19-022 (Full Member)  
Review Meeting: April 30 –May 1, 2019  
In Person meeting

NIH Small Business Grant Review (SBIR/STTR) 2020  
ZRG-1 EMNR-D55 Infertility (New Committee)  
Review meeting: March 19, 2020  
Yun-Shang Piao, Ph.D., SRO

### **SERVICE FOR PEER REVIEWED JOURNALS**

#### **JOURNAL/EDITORIAL ACTIVITY:**

Column writer for Patient's Bookshelf in ASRM Fertility News	1995-2010
Editor, APGO Reporter	2002-2006
Series Editor, The Female Patient, "Images in Women's Health"	2002-2007
Editorial Board member, The Female Patient	2003-2007
Advisory Board Member, Obstetrics & Gynecology, 5 <sup>th</sup> Edition	2005
Sentinel Reader for MORE	2007
Fertility and Sterility Editorial Advisory Board	2007-2009
Contemporary Obstetrics and Gynecology Editorial Board	2009-2012
Fertility and Sterility Editorial Board	2008-present

#### **REVIEWER – PEER REVIEWED JOURNALS (AD HOC)**

American Journal of Obstetrics and Gynecology (AJOG)  
American Journal of Reproductive Immunology (AJRI)  
Clinical Journal of Women's Health  
Contemporary Obstetrics and Gynecology  
Fertility and Sterility  
Human Reproduction  
International Journal of Fertility  
International Journal of Gynecology and Obstetrics  
Journal of Assisted Reproduction and Genetics (JARG)  
Journal of Clinical Investigation  
Journal of Obstetrics and Gynecology Research  
Journal of Pediatrics and Adolescent Gynecology (JPAG)  
Journal of Perinatal Medicine  
Journal of Reproductive Medicine  
Journal of Ultrasound in Medicine  
Molecular Reproduction and Development (MRD)  
Obstetrics and Gynecology  
Reproduction

**INVITED ACTIVITIES:**

ASRM MODERATOR, Clinical Endocrinology	2000
ASRM MODERATOR, Pediatric and Adolescent Gynecology (PAG)	2001
ASRM Clinical Infertility & Gynecology Abstract Committee	2002
ACOG Abstract Committee	2002-2005
ASRM PRIZE PAPER Committee Judge	2002, 2003
ASRM MODERATOR, General Program Prize Paper Candidates' Abstract session	2003
ASRM Abstract Chair for Human Sexuality Special Interest Group	2003, 2004
ASRM MODERATOR: Human Sexuality Special Interests Group	2004
ASRM Poster Judge	2005
ASRM Abstract reviewer for Imaging in Reproductive Medicine	2007
ASRM Co-chair of the IRM Abstract Sessions	2007
ASRM Abstract reviewer for Sexuality Special Interest Group	2008
CREOG/APGO Abstract reviewer/judge for the CREOG/APGO (Not updated since 2008)	2008
ACOG Michigan Section Junior Fellow Research Day – Judge	2013
ASRM Prize Poster Judging Committee and Chair	2017
AIUM REI Ultrasound Practice Guideline Committee Chair	2017-2018
ASRM PAGs Abstract Reviewer	2019, 2020
AIUM Gynecologic Case Challenges Moderator	12/7/2020
AIUM Abstract Reviewer	2020

**TEACHING:**

***Years at Wayne State University***

Affiliation with Wayne State University (WSU) School of Medicine 2001-present

***Courses taught at Wayne State University***

3<sup>rd</sup> Year WSU Medical Student Advisor (1-3 students every 8 weeks)  
3<sup>rd</sup> Year WSU Medical Students OB/Gyn Core Lecture Series  
3<sup>rd</sup> Year WSU Medical Students on Clinical Rotation at University Women's Care  
4<sup>th</sup> Year Visiting Medical Students on Elective Rotation (one-on-one teaching)  
4<sup>th</sup> Year WSU Medical Students on Elective Rotation (one-on-one teaching)  
WSU OB/GYN 2<sup>nd</sup> year Resident Clinical Rotation (one-on-one teaching)  
WSU OB/GYN 2<sup>nd</sup> and 4<sup>th</sup> year Resident Gynecologic Ultrasound Training (one-on-one)  
WSU OB/GYN Resident Gynecologic Surgery Training  
WSU OB/GYN Resident Laparoscopy Training Laboratory 2000-2001  
WSU OB/GYN Resident Mentor for 2 residents  
Visiting Residents for Clinical Reproductive Endocrine and Infertility Clinical Rotation (Providence Hospital, Down River, St John's, and North Oakland Residents)  
WSU/DMC Medical Endocrine Fellows rotation (one every Monday)  
Children's Hospital Girls with Bleeding Disorders  
  
St. John's Hospital Rotating Resident Career Advisor (Cassie Laasch) 2002

Reproductive Endocrine and Infertility (REI) Fellows Lecture Series (2019-2020 Increase frequency to 2 lectures/month)	Continuing
REI Fellow Gynecologic Ultrasound Training	Continuing basis
REI InVia Fertility Clinical IVF procedure training	2019-present
REI InVia Fertility Office hysteroscopy training	2019-present
REI InVia Fertility Office HSG/SIS training	2019-present

PSL 7710 Course faculty	2006-present
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PSL 7690 Course faculty	2013-present
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***Allied Medical Health Teaching:***

WSU Medical Genetics, Lecturer in MBG 7741 Course	2002-2009
Nursing Students, University Women’s Care-Southfield site	2001-2015
Medical Assistants, University Women’s Care-Southfield site	2002-2010
UWC Southfield Staff In-service Speaker & Coordinator	2002-2010
WSU Midwife Program Speaker	2005, 2007-2009

***Course or curriculum development***

Gynecologic Ultrasound Training for Residents and Fellows

***Course materials***

Problem-based learning cases for REI Core Lectures at WSU

**Teaching at Other Institutions:**

***Years at Northwestern University***

Affiliation with Northwestern University, approximately 7.5 years	1993-2000
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***Courses taught at Northwestern University***

2<sup>nd</sup> Year Scientific Basis of Disease Course Lecturer  
 3<sup>rd</sup> Year Clerkship Director  
 3<sup>rd</sup> Year Noon Lecture Series (Weekly)  
 3<sup>rd</sup> Year Student Advisor  
 4<sup>th</sup> Year Reproductive Endocrine and Infertility Elective Director  
 4<sup>th</sup> Year Women’s Health Multidisciplinary Course Director  
 Northwestern Resident Gynecology Rounds  
 Northwestern Resident REI Clinic and Floor Rounds  
 Northwestern Resident REI Lecture Series  
 Northwestern Resident Laparoscopy Training Course

***Course or curriculum development at Northwestern University***

Women’s Health Multidisciplinary 4<sup>th</sup> year Elective  
 Nutrition Curriculum for OB/GYN Students

Nutrition Education Integration into the 4 years of Medical School Curriculum  
 External Program for National Medical Student Education through MEDCASES  
 (Development of PBL type cases for use on a web-based system)  
 Executive Curriculum Committee Revision of the 1<sup>st</sup> and 2<sup>nd</sup> year Curriculum  
 Executive Curriculum Committee Revision of the 3<sup>rd</sup> year Curriculum  
 Clinical Taskforce for Revision of the 4<sup>th</sup> Curriculum

***Course materials at Northwestern University***

OB/GYN Clerkship Orientation Manual- Revision  
 OB/GYN Clinics Orientation Manual, Created  
 OB/GYN Mid-Clerkship Evaluation Program and Assessment Program, Created  
 OB/GYN Written Examination- Revisions  
 OB/GYN Faculty Advisor's Handbook, Created  
 OB/GYN Medical Student's Advisee Handbook, Created  
 Nutrition Clinician Computer Program  
 MEDCASES - Authored or Co-Authored about 15 cases with students - All in use  
 Internet Electronic Problem Based Learning for Abdominal Pain Case (Multidisciplinary)

***Years taught at other universities***

Medical College of Georgia 1991-1993  
 Resident Lecture on Hirsutism and Hyperprolactinemia

**Mentorship:**

**WAYNE STATE UNIVERSITY TRAINEES:**

<b>Name</b>	<b>Year Graduated</b>
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**Fellows:**

Kevin McGinnis	2001
Michael Freeman	2002
Subodhsingh Chauhan	2003
April Gago	2005
Frank Yelian	2005
Mohamed Mitwally	2006
Rahi Victory	2006
Laura Detti	2007
Pravin Goud	2008
Awoniyi Awonuga	2010
Mazen Abdallah	2010
Terri Woodard	2011
Valerie Shavell	2013
Josh Banerjee	2013
Jay Bolnick	2014
Alan Bolnick	2016
Sana Kahn	2016
Roohi Jeelani	2017
Mili Thakur	2017 (Combined REI/Medical Genetics)
Karen Wheeler	2019
Charalampos (Harry) Chatzicharalampous	2019 (REI and Medical Genetics)
Sicily Garvin	2020
Ramya Sethura	2023

Ali Bassi 2024

**Residents in Research Projects:**

Cassie Laasch 2004  
Anthony Imudia 2006-2009  
Zeynep Alpay 2007-2008  
Valerie Shavell 2008-2009  
Jackie Gutterman (ACOG grant) 2013-2017  
Michael Adawalla 2014-2017  
Aliye Runyan 2014-2017  
Luis Hoyos 2015-2017

**Students in Research Projects:**

Jodilyn Jelsema 2008

**Genetic Counseling Student Master's Project**

Kate Zellmer 2008-2010  
Veronica Kokavec 2009-2011

**Mentoring Faculty for P&T:**

Steve Ondersma	Psychology	2007	Professor, Tenured
Sonia Hassan	MFM	2007	Professor, Tenured
Robert Morris	Gyn Oncology	2008	Professor, Clinician Educator track
Jay Berman	Gynecology	2008,	Associate Professor, CE Track
Jay Berman	Gynecology	2016	Professor, Clinician Educator track
Karoline Puder	MFM	2008	Associate Professor, CE track
Kang Chen	Research	2012-2016	Associate Professor, tenure track
Awoniyi Awonuga	REI	2016	Professor, Clinician Educator track

**Thesis Committee for Dissertations Directed**

Jimmy Belotte PhD 2011-2016 PhD Thesis Committee

**WRHR**

Rani Fritz 2013-2015 (Awards: SREI President's Award 2015)  
Jimmy Belotte 2011-2016 (PhD-2016)  
Roohi Jeelani 2016-2017  
Maurice Recanati OB/GYN 2017-present

**Course or Curriculum Development**

Gynecologic ultrasound program 2002-present  
MedCases 2000-2003, 2010-2012  
Problem-Based Learning scenarios 1997-2002  
Nutrition Clinician 1997-1999

**GRANTS, CONTRACTS, AND OTHER FUNDING:**

**Active National/International Grants and Contracts:**

1. NICHD "WSU Cooperative Reproductive Medicine Network Center" U10

HD-39005 Total Direct Award: \$1,510,000. Grant Period: 07/07-06/12, Continued 2012-2017. Joint between Georgia Regents and WSU. PI: Michael P. Diamond. M.D.,  
**Co-Investigator: Elizabeth Puscheck, M.D., M.S.**

- a. NICHD RMN “**Males, Antioxidants, and Infertility (MOXI) Trial**”. Grant Period: 07/07-06/12, Continued 2012-2019. **PI: Elizabeth Puscheck, M.D., M.S.**
  - b. NICHD RMN “**Improving Reproductive Fitness through Pretreatment with Lifestyle Modification in Obese Women with Unexplained Infertility The “FITPLES Trial”**”. Grant Period: 07/07-06/12, Continued 2012-2019. **PI: Elizabeth Puscheck, M.D., M.S.**
  - c. NICHD RMN “**Optimal treatment for women with a Persisting Pregnancy of Unknown Location - The “ACTorNot TRIAL” – is a Randomized Clinical Trial of women at risk for an ectopic pregnancy: Active Treatment versus Expectant Management (No Treatment) The “ACTorNOT TRIAL”**”, Grant Period: 07/07-06/12, Continued 2012-2019 **PI: Elizabeth Puscheck, M.D., M.S.**
2. NIH/NICHD “**Detroit Reproductive Career Development Research Center (WRHR)**” 5-K12-HD-001254-13. Total Direct Award: \$3,297,523. Grant Period: 9/1/09 – 7/2015; No cost extension. **PI: Elizabeth Puscheck, M.D., M.S.**
  3. NIH/NICHD “**Continuation of Wayne State University’s Successful Development of Physician-Scientists as Independ Researchers in the Area of Women’s Reproductive Health**”. Total Direct Award: \$1,588,000. Grant Period: 07/2015-06/2021. **PI: Elizabeth Puscheck, M.D., M.S., M.B.A.** (transferred PI in 2016 to Dr. Hsu) PI: CD Hsu, M.D. (assumed in 2016).
  4. NIEHS. 1 R41 ES031451-01A1. **Stress forces huESC differentiation; confirmation as an accurate DevTox HTS**. Total direct award: \$225,000. Grant Period: 2020-2022. Co-PI’s: Mohammed Abdulhasan and Daniel Rappolee. **AOR: Elizabeth Puscheck, M.D., M.S., M.B.A.**

#### **Active Other Grants and Contracts:**

#### **Pharmaceutical Multi-Center Grants:**

*All of these grants recruit small numbers of patients for industry’s multicenter studies. No papers are expected from these grants (Active within the last 3 years):*

1. Bayer Pharmaceuticals: **20584/BAY 1817080 - A randomized, double-blind, open for active comparator, parallel-group, multicenter Phase 2b study to assess the efficacy and safety of three different doses of P2X3 antagonist (BAY 1817080) versus placebo and elagolix 150 mg in women with symptomatic endometriosis**  
Grant Period: 11/24/2020-open enrollment. **PI: Elizabeth Puscheck**
2. Ferring Pharmaceuticals: **(CLARA) A Randomized, double-blind, double-dummy, trial comparing MENOPUR solution for injection in a pre-filled pen and MENOPUR Powder and solvent for solution for injection (Menotropins for**



**injection) in a GnRH agonist cycle in women aged 18-42 years undergoing an assisted reproductive technology program. (InVia Fertility) Grant Period: 2019-2021. Co-Investigator: Elizabeth Puscheck**

3. **Ferring Pharmaceuticals: (RITA 1) A Randomized, double-blind, placebo-controlled, parallel groups, multicenter trial investigating the efficacy and safety of FE999049 in controlled ovarian stimulation in women aged 18-34 years undergoing assisted reproductive technology. (InVia Fertility) Grant Period: 2018-2021. Co-Investigator: Elizabeth Puscheck**
4. **Ferring Pharmaceuticals: (RITA 2) A Randomized, double-blind, placebo-controlled, parallel groups, multicenter trial investigating the efficacy and safety of FE999049 in controlled ovarian stimulation in women aged 34-42 years undergoing assisted reproductive technology. (InVia Fertility) Grant Period: 2018-2021. Co-Investigator: Elizabeth Puscheck**
5. **AbbVie: Protocol M14-702. A phase 3 study to evaluate the safety and efficacy of Elagolix in combination with Estradiol/Northindrone Acetate in Subjects with Moderate Endometriosis. Grant amount: \$1,939,028.00. Grant period: 9/2016-6/2023. PI: Elizabeth Puscheck, M.D., M.S. Changed PI to Awoniyi Awonuga. Elizabeth Puscheck remains as co-Investigator**
6. **Obseva 009. A Phase 3, multicenter, randomized, double-blind, placebo-controlled study, investigating the efficacy and safety of daily oral administration of InvDrug alone and in combination with add-back therapy for the management of heavy menstrual bleeding associated with uterine fibroids in premenopausal women. Grant amount: \$96,205.00. Grant Period: 2017-2020. PI: Elizabeth Puscheck**
7. **AbbVie: M12-816 “Extension study to evaluate the efficacy and safety of Elagolix in premenopausal women with heavy menstrual bleeding associated with uterine fibroids. Grant amount: \$945,930.00. Grant Period: 6/2017-5/2019. PI: Elizabeth Puscheck, M.D., M.S., M.B.A.**
8. **OBSEVA/Chiltern International Banner 25S6W1 “A Randomized, Double-Blind, Placebo-Controlled, phase 2b dose-ranging study to assess the efficacy and safety of OBE2109 in subjects with endometriosis associated pain/12-OBE2109-001”. Grant amount: \$166,700.00. Grant Period: 7/11/2016 – 12/2017. PI: Elizabeth Puscheck, M.D., M.S.**
9. **AbbVie: "A Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Safety and Efficacy of Elagolix in Subjects with Moderate to Severe Endometriosis -Associated Pain.” Protocol M12-671 (incorporating Amendment 1&2). Grant Amount \$283,469. Grant Period: 12/18/2013 – 2017. PI: Elizabeth Puscheck, M.D., M.S.**
10. **AbbVie: "Extension Study to Evaluate the Long-Term Safety and Efficacy of Elagolix in Subjects with Moderate to Severe Endometriosis Associated Pain.” Protocol M12-821. Grant Amount \$185,136. Grant Period 2015-2017. PI: Elizabeth Puscheck, M.D., M.S.**

11. Abbvie: **“A Phase 3 Study to Evaluate the Efficacy and Safety of Elagolix in Combination with Estradiol/Norethindrone Acetate for the Management of Heavy Menstrual Bleeding Associated with Uterine Fibroids in Premenopausal Women”** Protocol M12-815. Grant amount: \$836,618.00. Grant period: 5/2016-2019. **PI: Elizabeth Puscheck, M.D., M.S.**
12. Ferring. International, Pharmascience Center U.S., Inc. **“A Multicenter, Double-Blind, Randomized, Placebo-Controlled Study Evaluating Three Doses of Subcutaneous Pulsatile GnRH Administered via OmniPod Pump for Ovulation Induction in Female Subjects with Primary Amenorrhea with Hypogonadotropic Hypogonadism.”** Protocol: 000070. Grant Period 2015 – present. **PI: Awoniyi Awonuga, M.D., Co-Investigator: Elizabeth Puscheck, M.D., M.S.**
13. Bayer AG.: **Bayer An open-label, parallel-group, randomized, multi-center study to assess the safety and efficacy of vilaprisan in subjects with uterine fibroids versus standard of care.** Grant amount: \$2000.00 (competitive enrollment). Grant period: 12/2017-12/2018. **PI: Elizabeth Puscheck, M.D., M.S., M.B.A.**
14. Bayer Health Care Pharmaceuticals Inc. **Bayer 15832 “A randomized, double-blind, double-dummy, parallel-group, multi-center phase IIb study in assess the efficacy and safety of different dose combinations of an aromatase inhibitor and a progestin in an intravaginal ring versus placebo and leuprorelin/leuprolide acetate in women with symptomatic endometriosis over a 12-week treatment period”.** Protocol 15832, Grant Period 10/2015-10/2017, Grant Amount \$63,501. **PI: Elizabeth Puscheck, M.D., M.S.**
15. Halt Medical, Inc **“Evaluation of the Halt System in Laparoscopic Treatment of Symptomatic uterine Fibroids with radiofrequency Ablation”.** Total Direct Award: \$162,546. Grant Period: 2/20/09 – 1/31/16. **PI: Jay Berman, MD, Co-Investigator: Elizabeth Puscheck, M.D., M.S.**
16. Gynesonics. **“Evaluation of the Gynesonics System for Transcervical Treatment of Symptomatic Uterine Fibroids with Radiofrequency Ablation under Integrated Intrauterine Sonography Guidance”**, 12/2015 – 08/2016 Total Direct Cost: \$476,048. **PI: Jay M. Berman, M.D., Percent Effort: 5%, Co-Investigator: Elizabeth Puscheck, M.D., M.S. Study # CL 04502**
17. Department of Ob/Gyn. **“Toward Healthy Pregnancy”.** 2016 – 2018. **PI: Sasha Drewlo, PhD, Co-Investigator: Elizabeth Puscheck, M.D., M.S.**

#### **National/International Grants and Contracts:**

##### ***Previously funded Grants and Contracts:***

1. **NICHD Grant: “WSU Cooperative Reproductive Medicine Network Center.” U10 HD39005** Grant Amount: \$1,349,994. Grant Period: 4/00-3/05. No cost extension renewed 7/2007-6/2012, Local PI: Michael Diamond, M.D. **Local**

**Co-Investigator: Elizabeth Puscheck, M.D., M.S.**

2. National Aeronautics and Space Administration (NASA), Fundamental Space Biology Program Office. Grant: **“Effects of Microgravity on Preimplantation Mouse Development.”** NRA NAG 2-150309. Total direct award: \$450,000. Grant period: 01/2001-08/2004 PI: Daniel Rappolee, Ph.D. **Co-Investigator: Elizabeth Puscheck, M.D., M.S.** (1% Effort)
3. National Institute of Health (NIH)/National Institute of Child Health and Human Development (NICHD) Grant: **“Signaling Pathways Mediating Trophoblast Proliferation.** RO1 HD40972. Total direct award: \$945,000. Grant period: 08/1/01-07/31/06. PI: Daniel Rappolee, Ph.D. **Co-Investigator: Elizabeth Puscheck, M.D., M.S.** (1% Effort)
4. National Aeronautics and Space Administration (NASA), Research Opportunities for Ground-Based Research in Space Radiation Biology and Space Radiation Shielding Materials. Grant: **“The Effects of Heavy Ion Irradiation on Mammalian Gametes and Early Embryos.”** NRA 03-OBPR-07. Total direct award \$1,525,697.00. Grant period 7/1/2004-6/30/2008. PI: Daniel Rappolee, Ph.D., **Co-Investigator: Elizabeth Puscheck, M.D., M.S.** (1% Effort).
5. NIH, **R01-ES 11856 “Effects of Organochlorines on Male Infertility”** Total direct award: \$2,894,054. Grant period: 2002-2008 (one-year extension). PI: Judith Wirth (Michigan State University), WSU Subcontract, PI: Michael Diamond, M.D., **Co-Investigator: Elizabeth Puscheck, M.D., M.S.** (15% Effort)
6. In vivo effects of fibroblasts and antioxidants on the incidence and severity of post-operative adhesion development after cecal abrasion. **NIH/NICHD (WRHR) grant K12HD001254.** \$50,000/year for 5 years 2010-2015. **PI: Formerly Dr. Diamond, Elizabeth Puscheck, M.D., M.S.** (Mentor)
7. NICHD Grant, Yale subcontract:” Pregnancy in Polycystic Ovary Syndrome II (PCOS II): A 20 week double-blind randomized trial of clomiphene citrate and letrozole for the treatment of infertility in women with polycystic ovary syndrome (PCOS II).” Grant Period: 4/00-3/05. No cost extension renewed 7/2007-6/2012, \$751,958.00. PI: Michael Diamond, M.D. **Local Co-Investigator: Elizabeth Puscheck, M.D., M.S**
8. **NICHD Grant:** ARRA Comparative Effectiveness Grant to the NICHD Cooperative Reproductive Medicine Network Center. **“Assessment of Multiple Intrauterine Gestations from Ovarian Stimulation (AMIGOS) Trial.”** \$9,400,000, 9/09-9/12. PI: Michael Diamond, M.D., **Co-Investigator: Elizabeth Puscheck, M.D., M.S**
9. NICHD Grant, Yale subcontract: **“Prospective, Randomized Study of Microsurgical Varicocelectomy versus No Surgery in the Treatment of Male Partners with a Palpable Varicocele and an Abnormal Semen Analysis (VARICOCELE).”** Grant Period: 4/00-3/05. No cost extension renewed 7/2007-6/2012, PI: Michael Diamond, M.D. **Co-Investigator: Elizabeth Puscheck, M.D., M.S.**

10. **NIEHS: 1 R41 ES028991-01. Embryonic stem cell high throughput screen accurately reports toxic stress.** Grant Period: 2018-2020. Grant Award: \$225,000. Co-PI's: Abdulhasan, Mohammed and Rappolee, Daniel. **AOR: Elizabeth Puscheck.**

#### **Previously funded Clinical Grants and Contracts:**

##### ***Past:***

1. Zeneca Pharmaceutical: **“A Multi-center Trial Comparing 3.6mg Zolodex Therapy with or without Hormone Replacement Therapy for the Treatment of Endometriosis.”** Grant Amount: \$107,000.00. Grant Period: 01/1992-01/1993. PI: Ralph Kazer, M.D. **Co-PI: Elizabeth Puscheck, M.D., M.S.**
2. R.W. Johnson, PRI: **“A Randomized, Double-blind, Parallel Group, Multi-center, Dose-Ranging Study to Evaluate a Cyclophasic Hormone Replacement Therapy Regimen of Estradiol & Norgestimate.”** Grant Amount: \$131,544.00 Grant period: 06/1994-01/1997. PI: Ralph Kazer, M.D. **Co-PI: Elizabeth Puscheck, M.D.**
3. R.W. Johnson, PRI.: **“A Multi-center, Double-blind, Placebo-controlled, Randomized Parallel Group Study to Evaluate the Safety and Efficacy of a 17-B Estradiol Transdermal Delivery System (SYSTEM) in the Treatment of Vasomotor Symptoms and Genital Atrophy.”** Grant Amount: \$4,787.00 Grant Period: 01/1994-02/1995. PI: Ralph Kazer, M.D. **Co-PI: Elizabeth Puscheck, M.D., M.S.**
4. Ostex Int'l.: **“A Study of the Use of Osteomark in the Assessment of Changes in Bone Resorption Rates Resulting from Estrogen Deficiency.”** Grant Amount: \$6,601.00. Grant Period: 09/1994-11/1994. PI: Ralph Kazer, M.D. **Co-PI: Elizabeth Puscheck, M.D., M.S.**
5. Merck & Co.: **“Development and Validation of a Predictive Model for Facilitation of Diagnosis of Low Bone Mass in Perimenopausal and Postmenopausal Women.”** Grant Amount: \$12,000.00. Grant Period: 12/1994-03/1995. PI: Ralph Kazer, M.D. **Co-PI: Elizabeth Puscheck, M.D.**
6. Merck & Co.: **“A Triple-blind, Randomized, Placebo-controlled, Parallel Group Multicenter Study to Evaluate the Efficacy and Tolerability of the Addition of Alendronate Sodium to Ongoing Hormone Replacement Therapy in the Treatment of Osteoporosis in Postmenopausal Women.”** (No amount), Grant Period: 04/1996-11/1997. PI: Ralph Kazer, M.D. **Co-PI: Elizabeth Puscheck, M.D., M.S.**
7. Lifecore-Biomedical/Quintiles.: **“Clinical Evaluation of LUBRICOAT 0.5% Ferric Hyaluronate Gel for the Reduction of Adhesions Following Peritoneal Cavity Surgery, A Multi-center of Safety and Efficacy.”** Grant Amount: \$268,920.00. Grant Period: 04/1996-12/1998. PI: Rafael Valle, M.D. **Co-PI: Elizabeth Puscheck, M.D., M.S.**
8. Wyeth-Ayerst Research: **“Prospective Double-blind, Randomized Study of the Safety and Efficacy of Lower Doses of Premarin and Medroxyprogesterone Acetate in**

**Postmenopausal Women.”** Grant Amount: 524,960.00. Grant Period: 05/1996-05/2000.  
PI: Ralph Kazer, MD, **Co-PI: Elizabeth Puscheck, M.D., M.S.**

9. R.W. Johnson PRI: **“A Multi-center Double-blind, Randomized, Parallel Group, Placebo-Controlled Study to Evaluate the Safety and Efficacy of Oral 17B Estradiol for the Treatment of Vasomotor Symptoms in Postmenopausal Women.”** (no amount listed) Grant Period: 06/1996-09/1997. PI: Ralph Kazer, M.D. **Co-PI: Elizabeth Puscheck, M.D., M.S.**
10. Imagyn Medical Inc.: **“Imagyn Microhysteroscopy System Clinical Evaluation.”** (no amount listed). Grant Period: 08/1996-07/1997. PI: Rafael Valle, M.D. **Co-PI: Elizabeth Puscheck, M.D., M.S.**
11. Zeneca Pharmaceuticals.: **“A Multi-center, Controlled Trial of Goserelin Acetate (Zolodex) 3-month 10.8 mg Depot Plus Iron Versus Sham Plus Iron for the Preoperative Management of Premenopausal Women with Iron Deficiency Anemia Due to Uterine Fibroids.”** (no amount listed) Grant Period: 10/1996-03/1998. PI: Ralph Kazer, M.D. **Co-PI: Elizabeth Puscheck, M.D., M.S.**
12. R.W. Johnson Pharmaceutical Research: **“A Multi-center, Randomized, Double-blind Exploratory Study Investigating the Pharmacodynamic Profile of Two Different Hormone Replacement Therapy Regimens, Conjugated Estrogens plus Medroxyprogesterone Acetate (Prempro) and Micronized Estradiol plus Cyclophasic Addition of Norgestimate (Cyclophasic HRT) vs. Placebo in Postmenopausal Women.”** Grant Amount: \$61,197.00. Grant Period: 01/1998-01/1999. **PI: Elizabeth Puscheck, M.D., M.S.**
13. Wyeth-Ayerst Research: **“A Multi-center, Randomized, Open-label, Pilot Study to Evaluate the Effects on Coagulation, Endocrine, Lipid and Carbohydrate Parameters of Four Trimesterone/Ethinyl Estradiol Oral Contraceptive Regimens and EstrostepRFe.”** Grant Amount: \$61,105.00. Grant Period: 02/1998-02/1999. PI: Ralph Kazer, M.D. **Co-PI: Elizabeth Puscheck, M.D., M.S.**
14. Lifecore Biomedical/Quintiles: **“Evaluation of LUBRICOAT Gel for the Reduction of Adhesions Following Peritoneal Cavity Surgery by Laparoscopy.”** Grant Amount: \$265,250.00. Grant Period: 02/1998-11/2000. PI: Rafael Valle, M.D. **Co-PI: Elizabeth Puscheck, M.D., M.S.**
15. Searle/IBAH, Inc.: **“A Dosing Optimization Study of Synarel (Nafarelin Acetate) for Endometriosis: Safety and Efficacy of (1) Single 400ug daily dose for 6 months (2) A Step-down dose from 200ug BID for 2 months to 200ug daily for 4 months. A double-blind placebo-controlled, randomized comparison to the recommended of 200ug BID daily for 6 months.”** Grant Amount: \$37,828.80. Grant Period: Ongoing enrollment when I left Northwestern University. PI: Ralph Kazer, M.D. **Co-PI: Elizabeth Puscheck, M.D., M.S.**
16. Wyeth-Ayerst Laboratories: **“A Double-blind Randomized, Placebo and Historical-Controlled Study of the Safety and Efficacy of Premarin/ Trimegestone.”** Grant Amount: \$663,660. Grant Period: 03/1998-06/2002. PI: Kamran Moghissi, Ph.D.

**Co-PI: Elizabeth Puscheck, M.D., M.S.**

17. TAP Pharmaceuticals, Inc.: **“A Phase II Randomized, Double-blind, Parallel Group, Placebo Controlled 12 Week Pilot to Evaluate the Safety and Efficacy of J956 Administered with Estrogen to Postmenopausal Women.”** Grant Amount: \$50,000. Grant Period: 09/2000-09/2001. PI: Kamran Moghissi, M.D. **Co-PI: Elizabeth Puscheck, M.D., M.S.**
18. Pfizer Global Research and Development. **“A Double-blind Placebo-controlled, Parallel Group Design Dose-ranging Study of Three Doses of Lasofoxifene vs. Placebo for the Treatment of Sexual Dysfunction (Hypoactive Desire) in Postmenopausal Women.”** Protocol A2181021. \$187,500 Awarded December 2001 through November 2003. PI: Michael Diamond, M.D. **Co-Investigator: Elizabeth Puscheck, M.D., M.S.**
19. Merck & Company: **“EFFECT Study-Efficacy of Fosamax vs. Evista Comparison Trial—A Randomized, Double-blind, Double-dummy, Parallel-group, Multi-center Study to Evaluate & Compare the Effects of Alendronate & Raloxifene on Bone Mineral Density in Post-menopausal Women with Osteoporosis.”** Grant Amount: \$27,600. Grant Period: 06/2001-06/2003 PI: Charla Blacker, M.D. **Co-PI: Elizabeth Puscheck, M.D., M.S.**
20. ML Laboratories PLC. **“A Pivitol, Double-blind, Comparative, Multi-center Study to Determine the Efficacy and Safety of Adept™ in the Reduction of Post-surgical Adhesions after Laparoscopic Surgery.”** 70,000 Awarded June 2001 through August 2003 PI: Michael Freeman, M.D. (my REI Fellow). **Co-PI: Elizabeth Puscheck, M.D., M.S.**
21. TAP: **“A Phase III, 12 Month, Randomized, Double-Blind Study to Evaluate the Efficacy and Safety (including Bone Density Assessment) of Two Doses of J867 Versus Placebo in Subjects with Uterine Leiomyomata.”** Grant Amount: \$14,867.50. Grant Period: 06/02-06/05. PI: Michael Diamond. **Co-Investigator: Elizabeth Puscheck, M.D., M.S.**
22. Pfizer Global Research and Development: **“A Randomized, Double-Blind, Double-Dummy, Placebo-Controlled, Fixed Dose, Multicenter Study to Evaluate the Efficacy, Safety, and Toleration of Oral Sildenafil Citrate Administered for 12 Weeks to Pre-Menopausal Women Who Have Been Diagnosed with Female Sexual Arousal Disorder.”** Protocol A1481123. Grant Amount: \$30,000. Grant Period: 10/02-08/2004. **PI: Elizabeth Puscheck, M.D., M.S.**
23. Pfizer Global Research and Development: **“A Randomized, Double-Blind, Placebo Controlled, Fixed Dose, Multicenter Study to Evaluate the Efficacy, Safety, and Tolerance of Oral Sildenafil Administered for 12 Weeks to Post-Menopausal Women Who Have Been Diagnosed with Female Sexual Arousal Disorder.”** Protocol A1481082. Grant Amount: \$31,000. Grant Period: 10/02-8/04. **PI: Elizabeth Puscheck, M.D., M.S.**
24. Merck: **“FACT: A Randomized, Double-Blind, Double-Dummy, Parallel-Group,**

**Multicenter Study to Evaluate & Compare the Effects of Once Weekly Alendronate & Risedronate on Bone Mineral Density in Post-Menopausal Women with Osteoporosis.”** Grant Amount: \$30,000. Grant Period: 10/02-04/04.  
**PI: Elizabeth Puscheck, M.D., M.S.**

25. Pfizer: Protocol A148-1133 Extension Study. **“An Open Label Multi-Center Extension Study to Evaluate the Safety, Toleration, and Sustained Efficacy of Oral Sildenafil Administered to Women Who Have Been Diagnosed With Female Sexual Arousal Disorder.”** Grant Amount: \$9,000. Grant period: 08/03-08/04.  
**PI: Elizabeth Puscheck, M.D., M.S.**
26. Merck: **“A 15-week, Double-Blind, Active-Controlled, Multicenter Study with 24 Week Extension to Evaluate the Safety, Tolerability, and Efficacy of Alendronate 70 mg Plus Vitamin D3 2800 IU in Men and Postmenopausal Women with Osteoporosis.”** Protocol 227-00. Grant Amount: \$5,000. Grant Period: 8/03-12/04.  
**PI: Elizabeth Puscheck, M.D., M.S.**
27. Merck: **“A 15-Week, Double-Blind, Randomized, Active-Controlled, Multicenter Study With 24-Week Extension to Evaluate the Safety, Tolerability, and Efficacy of Alendronate 70-mg Plus Vitamin D3 2800 IU Combination Tablet in Men and Postmenopausal Women with Osteoporosis.”** Protocol 27-00. Grant Amount: \$43,500. Grant Period: 9/03-1/05. **PI: Elizabeth Puscheck, M.D., M.S.**
28. Pfizer: **“A Phase III Study of the Efficacy and Safety of Lasofoxifene in the Treatment of Vaginal Atrophy in Postmenopausal Women.”** Protocol A2181031. Grant Amount: \$27,600 Grant Period: 11/03-12/04. **PI: Elizabeth Puscheck, M.D., M.S.**
29. Wyeth: **“A Double-blind, Randomized, Placebo- and Active- Controlled Safety and Efficacy Study of Bazedoxifene/Conjugated Estrogens Combinations in Postmenopausal Women.”** Protocol 3115A1-303-US, Bazedoxifene/CE (Alternate Site). Grant Period: through 4/06. **PI: Michael Kleerkoper, M.D. SubContract, Sub-PI: Elizabeth Puscheck, M.D., M.S.** (When Dr. Kleerkoper left WSU, this grant was transferred from Internal Medicine to OB/GYN and I assumed being the **PI** mid-way through the grant)
30. Wyeth. **“A Double-blind, Randomized, Placebo- and Active- Controlled Safety and Efficacy Study of Bazedoxifene/Conjugated Estrogens Combinations in Postmenopausal Women.”** Protocol 3115A1-303-US, Bazedoxifene/CE. Grant Amount: \$394,177. Grant Period: 06/02-04/06. **PI: Elizabeth Puscheck, M.D., M.S.**
31. Serono: IMP2550 **“A Phase II, Prospective, Randomized, Double-Blind, Placebo-Controlled, Multicenter, Dose Finding, Comparative Study for the Evaluation of the Aromatase Inhibitor Anastrozole (Multiple-Dose) versus Clomiphene Citrate in Stimulating Follicular Growth and Ovulation in Infertile Women with Ovulatory Dysfunction”,** \$345,820, 3/05-10/07. **PI: Michael Diamond, M.D., CoI: Elizabeth Puscheck, M.D., M.S.**
32. Wyeth. **“A Double-blind, Randomized, Placebo- and Active- Controlled Safety and Efficacy Study of Bazedoxifene/Conjugated Estrogens Combinations in Postmenopausal**

**Women.”** Protocol 3115A1-304-US, Bazedoxifene/CE.--*Extension* Grant Amount: \$22,528.83. Grant Period: 04/07-4/09. **PI: Elizabeth Puscheck, M.D., M.S.**

33. Ferring. **Investigator initiated research. Impact of stress on mediating stress enzymes and the differentiation of trophoblast stem cells.** Grant Amount: \$10,000. Grant Period: 2/2008-2/2009. **Co-PI. Elizabeth Puscheck, M.D., M.S.**
34. Meditrina Pharmaceuticals, Inc. 06-1-P1-0275 **“A double-blind, placebo-controlled study to assess the efficacy and safety of anastrozole, an aromatase inhibitor, on endometrial thickness in healthy premenopausal women when dosed at various times during the menstrual cycle”** (Protocol M-001), Amount: \$143,421, 10/06-9/09. (one year extension) **PI: Michael Diamond, M.D., Co-PI: Elizabeth Puscheck, M.D., M.S.**
35. Wyeth. **RNA Expression Analysis of Endometrial Biopsies Comparing Placebo Bazedoxifene/CE, and Raloxifene Estrogen. An Ancillary Study of Protocol 3115A1-303-WW. Wyeth 3115A1-1125-WW.** Amount: \$6,400.00. 5 patients recruited. Grant Period: 07/2010. **PI: Elizabeth Puscheck, M.D., M.S.**
36. Wyeth. **“A Double-blind, Randomized, Placebo-Controlled Study Assessing the Safety and Efficacy of DVS SR for the Treatment of Vasomotor Symptoms Associated with Menopause”.** Protocol #3151A2-3353-NA. Amount: 133,194. Grant Period: 5/08-9/2010. **PI: Elizabeth Puscheck, M.D., M.S.**
37. Wyeth. **“Evaluation of Changes in Mammographic Breast Density Associated with Bazedoxifene Acetate/Conjugated Estrogens, Raloxifene and Placebo in Postmenopausal Women: An Ancillary Study of Protocol 3115A1-303-WW”** Amount: \$6,000.00. Grant Period: 3/2009-2/2010. **PI: Elizabeth Puscheck, M.D., M.S.**
38. Wyeth. **A Phase 2, Multicenter, Randomized, Active-Controlled, Parallel-Group, Dose- Finding and Safety Study of Recombinant Human Bone Morphogenetic Protein-2 (rhBMP-2) Calcium Phosphate Matrix (CPM) in Subjects with Decreased Bone Mineral Density.** Wyeth 3100NO-2213-WW. Awarded but closed by sponsor. Grant Period: 5/2009-4/2011. **PI: Elizabeth Puscheck, M.D., M.S.**
39. AbbVie: **“A Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Safety and Efficacy of Elagolix in Subjects with Moderate to Severe Endometriosis-Associated Pain.”** Protocol M12-665, Grant Amount \$161,325.00. Grant Period: 7/19/2012 – 5/2/2013. **PI: Michael P. Diamond, M.D., Co-Investigator, Elizabeth Puscheck, M.D., M.S.**
40. Idoman Limited. IDM-001-01 TEAM Trial: **“Theramablate EAS Endometrial Ablation for Heavy Menstrual Bleeding”.** Protocol 12/2011 - 08/2015, Total Direct Cost: \$229,216, **PI: Jay M. Berman, M.D., Percent Effort 10%, Co-Investigator: Elizabeth Puscheck, M.D., M.S.**
41. HALT Medical Inc. **“Evaluation of the Halt System in Laparoscopic Treatment for Symptomatic Uterine Fibroids with Radiofrequency Ablation”.** 2/2009-2/2014, Amount: \$162, 548. **PI: Jay M. Berman, M.D., Co-Investigator: Elizabeth Puscheck, M.D., M.S.**



42. Boston Scientific Way. **“Genesys HTA Post Approval Registry: A Multi-center, Single-Arm, Prospective Registry of the Genesys HTA System for the Treatment of Menorrhagia”**. 12/2010-11/2013, Total Direct Costs: \$55,657. PI: Jay M. Berman, M.D., **Co-Investigator: Elizabeth Puscheck, M.D., M.S.**
42. Wayne State University School of Medicine. **“Resident Training in Basic and Advanced Laparoscopy”**. 03/2011 – 08/2013, Total Direct Costs: Internal funds. PI: Jay M. Berman, M.D., **Co-Investigator: Elizabeth Puscheck, M.D., M.S.**
43. Minerva Surgical. **“Minerva Pivotal Trial”**. 08/2012 – 08/2013, Total Direct Costs: \$293,488. PI: Jay M. Berman, M.D., **Co-Investigator: Elizabeth Puscheck, M.D., M.S.**
44. Ethicon Corp. (A Johnson & Johnson Co.): **“A pivotal study of Doppler guided uterine artery occlusion as treatment for reduction of fibroids associated bleeding.”** 01/2007-01/2011, Total Direct Costs: \$289,300, PI: Michael Diamond, M.D., Co-PI: Jay M. Berman, M.D., **Co-Investigator: Elizabeth Puscheck, M.D., M.S.**
45. Pfizer: **“A Phase 3 Study of the Efficacy and Safety of Lasofoxifene in the Treatment of Vaginal Atrophy in Postmenopausal Women Agency”**. PI: Elizabeth Puscheck, M.D., M.S.
46. Wyeth Research, Inc. **“A double-blind, placebo and active controlled safety and efficacy study of bazedoxifene conjugated estrogen combination in postmenopausal women – Sub-study C (without TVU).”** PI: Elizabeth Puscheck, M.D., M.S.
47. Merck: **“A 15-Week, Double-Blind, Randomized, Active-Controlled, Multicenter Study with a 24-Week Extension to Evaluate the Safety, Tolerability and Efficacy of Alendronate 70-mg Plus Vitamin D3 800 IU Combination in Men and Postmenopausal Women with Osteoporosis Agency”**. PI: Elizabeth Puscheck, M.D., M.S.
48. BEI Medical: **“Phase III Clinical Trial “Endometrial Ablation by Intrauterine Instillation of a Hot Solution for the Treatment of Menorrhagia (HTA).”** 06/1988, PI: Jay M. Berman, M.D., **Co-Investigator: Elizabeth Puscheck, M.D., M.S.**

## **PATENTS:**

1. Rappolee, D, Puscheck, E. 2014. Methods to Detect Stem Cell Stress and Uses Thereof. U.S. Patent Application: PRO App No.: 62/036,549, filed August 12, 2014. Patent filed on August 12, 2014 by Rachel Winder, Ph.D., JD. Supported by WSU, August 2014.
2. Rappolee, DA, Puscheck EE. 2015. Systems and Methods to Detect Stem Cell Stress and Uses Thereof: Viable fluorescent reporters for stress-induced prioritized differentiation in embryonic stem cells produce high throughput screens for potency loss. W063-0034USP1/14-1243. Patent filed on 5 11 2015 by Rachel Winger, PhD, JD. Supported by WSU, May 2015.
3. Rappolee DA, Puscheck EE. 2016. “Systems and methods to detect stress leading to miscarriage risk”. U.S. Provisional patent W063-0047USP1/16-1345. Filed 3/31/2016.

## **INVITED SPEAKER**

4 <sup>rd</sup> Annual Detroit Ob/Gyn Ultrasound Symposium Wayne State University, Detroit, MI “Ultrasound in Endometriosis and Adenomyosis” “Ultrasound in Infertility”	10/2018
North Shore Grand Rounds “Clinical Pearls in Gynecologic and Infertility Ultrasound”	8/15/2018
3 <sup>rd</sup> Annual Detroit Ob/Gyn Ultrasound Symposium Wayne State University, Detroit, MI “Ultrasound Evaluation of the Infertile Female” “Ultrasound of the Uterus: Nuts, Bolts and Oddities”	10/19-21/2017
43 <sup>rd</sup> Annual Symposium on Obstetrics & Gynecology Washington University Medical Center, St. Louis “Ultrasound of the Uterus: Nuts, Bolts and Oddities” “Ultrasound and Adnexal Masses: Operate, Monitor or Ignore?”	10/5-7/2017
Yale Division of Reproductive Endocrinology and Infertility “Infertility: Improved by Ultrasound and Reduced Stress”	08/30/2017
Mayo Clinic Division of Reproductive Endocrinology and Infertility “Infertility: Improved by Ultrasound and Reduced Stress”	07/2017
AIUM Annual Meeting Orlando, FL “Ultrasound Nuts and Bolts and Oddities”	3/25-28/2017

(This list is incomplete. I did not track these previously)

## **PUBLICATIONS:**

### **Peer Reviewed Publications**

#### *Reports of Original Works:*

1. Watts NB, Binkley N, Owens CD, Al-Hendy A, Puscheck EE, Shebley M, Schlaff WD, Simon JA. Bone mineral density changes associated with medical treatments, pregnancy, and lactation in premenopausal women. *Journal of Women’s Health*. 2020 (In Press).

2. Sethuram R, Bazzi AA, Salih SM, **Puscheck EE**. Peripheral Lymphocyte telomere dysfunction: a valid surrogate marker for female infertility? *Fertil Steril* 2020 (In Press).
3. Engmann L, Sun F, Legro RS, Diamond MP, Zhang H, Santoro N; **Reproductive Medicine Network**. Factors associated with study protocol adherence and bio banking participation in reproductive medicine clinical trials and their relationship to live birth. *Hum Reprod*. 2020 Nov 15:deaa232. doi: 10.1093/humrep/deaa232. PMID: 33190149
4. Jeyendran RS, Levrant S, **Puscheck E**. A novel laboratory procedure to validate American Urological Association guideline on vasectomy success and to diagnose obstructive azoospermia. *Andrologia*. 2020 Aug 24:e13766. doi: 10.1111/and.13766. Online ahead of print. PMID: 32833301
5. Al-Hendy A, Bradley L, Owens CD, Wang H, Barnhart KT, Feinberg E, Schlaff WD, **Puscheck EE**, Wang A, Gillispie V, Hurtado S, Muneyyirci-Delale O, Archer DF, Carr BR, Simon JA, Stewart EA. Predictors of response for elagolix with add-back therapy in women with heavy menstrual bleeding associated with uterine fibroids. *Am J Obstet Gynecol*. 2020 Jul 20:S0002-9378(20)30751-1. doi: 10.1016/j.ajog.2020.07.032. PMID: 32702363
6. Schlaff WD, Ackerman RT, Al-Hendy A, Archer DF, Barnhart KT, Bradley LD, Carr BR, Feinberg EC, Hurtado SM, Kim J, Liu R, Mabey RG Jr, Owens CD, Poindexter A, **Puscheck EE**, Rodriguez-Ginorio H, Simon JA, Soliman AM, Stewart EA, Watts NB, Muneyyirci-Delale O. Elagolix for Heavy Menstrual Bleeding in Women with Uterine Fibroids. *N Engl J Med*. 2020 Jan 23;382(4):328-340. doi: 10.1056/NEJMoa1904351. PMID: 31971678.
7. Levine D, Patel MD, Suh-Burgmann EJ, Andreotti RF, Benacerraf BR, Benson CB, Brewster WR, Coleman BG, Doubilet PM, Goldstein SR, Haper UM, Hecht JL, Horrow MM, Hur HC, Marnach ML, Pavlik E, Platt LD, **Puscheck E**, Smith-Bindman R, Brown DL. Simple adnexal cysts: SRU Consensus Conference Update on Follow-up and Reporting. *Radiology* 2019 Nov;293(2):359-371. doi: 10.1148/radiol.2019191354. Epub 2019 Sep 24. PMID: 31549945
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9. \*\*Garvin SE, \*\*Chatzicharalampos C, **Puscheck E**. Reflections on preimplantation genetic testing for aneuploidy and mosaicism: how did we get here and what does it mean clinically? *Fertil Steril* 2019;111(1):45-47. PMID: 30611414.
10. LiQ, \*Louden E, Zhou J, Drewlo S, Dai J, **Puscheck EE**, Chen K, Rappolee DA. Stress forces first lineage differentiation of mouse embryonic stem cells throughput screen for toxicant stress. *Stem Cells Dev* 2019;28 (20):101-113. PMID: 30328800.

11. Christianson MS, Legro RS, Jin S, Eisenberg E, Diamond MP, Hansen KR, Vitek W, Styer AK, Casson P, Coutifaris C, Christman GM, Alvero R, **Puscheck EE**, Christy AY, Sun F, Zhang H, Polotsky AJ, Santoro N. Comparison of sonohysterography to hysterosalpingogram for tubal patency assessment in a multicenter fertility treatment trial among women with polycystic ovary syndrome. *J Assist Reprod Genet* 2018;35(12): 2173-2180. PMID: 30194618.
12. **\*\*Chatzicharalampous C, \*\*Garvin SE, Kozeniewski SJ, Puscheck E.** Are infertile patients at greater risk for cesarean delivery? *Fertil Steril* 2018;110(3):403-404. PMID: 30098687.
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15. Ruden D, Bolnick A, Awonuga A, Abdulhasan M, Perez G, **Puscheck EE**, Rappolee DA. Effects of gravity, microgravity, or microgravity simulation on early mammalian development. *Stem Cells Dev* 2018;27(18):1230-1236. PMID: 29562866.
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blastocysts to AMPK-dependent suppression of anabolism and stemness by commonly used fertility drugs, a diet supplement, and stress. *J Assist Reprod Genet.* 2017;34(12):1609-1617. doi: 10.1007/s10815-017-1028-x. PMID:28913567

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Steril 2006;86(3)Sept:S370.

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68. Zhong W, **Puscheck E**, Liu J, Xie Y, Wang F, Rappolee D. Elevated stress through SAPK/JNK and AMPK mediate cues at implantation for generating the maternal recognition of pregnancy signal. Oral presentation-189. Fertil Steril 2006;86(3)Sept:S81.
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71. **Puscheck EE**: Best practices: Lessons learned from the top ob-gyn clerkship directors as identified by medical students. 2006 CREOG and APGO Annual Meeting, Orlando, Florida, March 2006. Poster presentation.
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73. **Victory R, Sampson J, Ginsburg KA, Diamond MP, Puscheck EE**: Administration of Cetorelix Post Oocyte Retrieval may Mitigate or Prevent Symptoms of Ovarian Hyperstimulation Syndrome. 53<sup>rd</sup> Annual Scientific Meeting of the Society for Gynecologic Investigation, Toronto, Canada, March 2006.
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MP: Pilot study on Phthalate Monoester levels in Great Lakes fish consumers. Society for Epidemiological Research (SER) (USA) and the Canadian Society of Epidemiology and Biostatistics "Epidemiology with Borders". Toronto, Canada, June 2005.

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79. Wirth J, Rossano MG, Ramamoorthi RV, **Puscheck EE**, Diamond MP; FINS Study Group. Metal levels in blood samples from male Great Lakes fish consumers. American Society for Reproductive Medicine 61<sup>st</sup> Annual Meeting, Montreal, Canada, October 2005. Oral presentation.
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