

March 19, 2021



Signature/Date of Preparation

ELIZABETH E. PUSCHECK

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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~~

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
SPECIALIZED TRAINING:	
APGO/Solvay Educational Scholar (First class), graduate	1997-1999
Executive Leadership in Academic Medicine	2010-2011
Harvard Chiefs Program	2013
ADDITIONAL TRAINING	
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 Faculty Development, AAMC	2004
	2018
Recertified:	
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
FACULTY APPOINTMENTS:	
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	1993-1995
Northwestern University Medical School	
OTHER LEADERSHIP ROLES	
REI Site Director for InVia Fertility Clinical Rotation	2019-present
REI Division Director	2013-2017
REI Fellowship Director	2013-2017
Kamran Moghissi Endowed Chair	2013-2020
Wayne State University School of Medicine	
Chairman	2010-2015
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	
Specialist-In-Chief	2010-2015
Obstetrics & Gynecology Detroit Medical Center (3 hospitals and 2 surgicenters)	
Specialist-In-Chief	2010-2015
Karmanos Cancer Institute Obstetrics and Gynecology	
Program Director, Obstetrics and Gynecology Residency	2010-2015
Detroit Medical Center/Wayne State University School of Medicine	
In Vitro Fertilization Director	2001-2016
Gynecologic Ultrasound Director Clinical Endocrine Laboratory Consultant Department of Obstetrics and Gynecology University Women's Care Southfield, MI	
Medical Director	2001-2005
University Women's Care Department of Obstetrics and Gynecology (clinical practice site) Southfield, MI	
Officer: Secretary/Treasurer (Elected)	1999-2000
Northwestern Medical School Faculty Senate Chicago, IL	
Representative (elected)	1997-2000
Northwestern Medical School Faculty Senate Chicago, IL	

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
California Certificate (retired status)
Illinois License, Issued (active status)
Michigan License (active status)

HONORS/AWARDS:

Administrative Executive Chief Resident at Washington University

1990-

APGO/Solvay Educational Scholar (First class), graduate

1991

APGO Excellence in Teaching Award

1997-

Scholarship Award from Northwestern University Medical Women's

1999

Faculty Organization to attend the AAMC Professional Development

1999

Seminar for Junior Women Faculty

1999

Honored member of Swathmore's Who's Who Millennium Edition

2000-

First Prize Poster at ASRM Annual Meeting

2001

Academic Keys Who's Who in Medical Sciences Education

2001

International Health Professional of the Year

2005

International Biographical Centre, Cambridge, England.

2007

Who's Who Among American Teachers & Educators, 11th 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) 2011
 and Visiting Professor. Washington University, St. Louis, MO
 Co-Chair, American Society for Reproductive Medicine Postgraduate 2011
 Course on "Ultrasound Imaging in Reproductive Medicine".
 Orlando, Florida

"Compassionate Doctor Award", American Registry, LLC. (This award 2011
 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.)

"TOP DOCTOR", Global Director of Who's Who honoring 2011-present
 Executives and professionals based on contributions made in
 Obstetrics & Gynecology.

"William Heath Byford Award", Northwestern University Feinberg 2011
 School of Medicine, Department of Obstetrics & Gynecology
 Resident Alumni Day. Award presented to individual who made
 major contribution to the specialty.

ASRM Star Award. Awarded to reproductive health professionals who 2013-2020
 have presented at least 9 of the last 10 ASRM Annual Meetings.

Fellow of the American Institute of Ultrasound in Medicine	2019	–
International Women's Leadership Association	present	2015
Fertility and Sterility Most Valued Reviewer	2015	2015
Chaperoned the Grosse Pointe South Orchestra trip to Austria	2015	2016
Chaperoned the Grosse Pointe South Orchestra trip to Germany	2014-	
Chaperone for Grosse Pointe South High School German Trip	present	
Consumer Reports Top OB/GYN		

SERVICE:

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

DMC Harper/Hutzel OB/GYN Business Meeting, Chair	2010-
DMC, Specialist-in-Chief Meeting	2015
DMC, Department Chief's Quarterly Meeting, Chair	2010-
DMC, Executive Management Team Committee (EMT)	2015
	2010-
	2015
Wayne State University	2010-
Divisional	2015
REI Fellowship Annual Program Evaluation Committee	2013-
"meets Quarterly for progress report"	
REI Fellowship Clinical Competency Committee	present
Divisional Meetings	
REI Journal Club	2013-2017
Combined REI, Medical Endocrine, and Pediatric Endocrine	2000-
Quarterly meetings	present
	2000-
Departmental WSU OB/GYN Faculty and Resident Steering	present
Committee WSU OB/GYN Residents' Research Paper Judge WSU	2001 2002
OB/GYN Residency Competency Committee WSU OB/GYN	2002 -2008-
Departmental Advisory Committee Chair, Wayne Day*	present
(postgraduate course) WSU OB/GYN Residency Program Director	2009 2011-
WSU Reproductive Endocrinology and Infertility Fellowship	2015 2013-
Director WSU REI/Medical Genetics Fellowship Director (1st in	2017 2014-
the country) WSU Reproductive Endocrinology and Infertility	2017 2014-
Division Director WSU OB/GYN Clinical Competency Committee	2017 2014-
WSU OB/GYN Program Evaluation Committee Departmental	2017 2014-
Meeting Executive Committee, Member WSU OB/GYN	2017 2010-
Departmental Promotion and Tenure committee WSU OB/GYN	2016 2010-
Selective Salary Committee Wayne State University - School of	2017 2010-
Medicine WSU SOM Executive Committee Vice President WSU	2017
SOM Bylaws Subcommittee WSU SOM Factors and Guidelines for	
Promotions and Tenure	
	2017-
	2019
	2011-
Clinician Educators Subcommittee, Chair	2013
WSU SOM Committee on the Revision of the Factors and	2006-
Guidelines for Promotion and Tenure	2010
WSU SOM School of Medicine, Faculty Senate	2006-
Executive	2006 -
Committee Re-	2008
elected Re-elected	2008-
WSU SOM Department of Internal Medicine	2010
Internal Review Committee	2015-
Multiple Workshops on the P&T Process	2019
Wayne State University	2005-
WSU Academic Senate Faculty Representative	2006
	2004 -2017
	2010

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 2005-
WSU Faculty Affairs Committee	2017
Committee Sponsored, organized and presented - "Financing Your Retirement in Turbulent Times".	2/25/09 2017
Best Practices for Faculty Teaching Evaluations- AAUP-AFT Academic Forum	
UPG (WSU Physician Practice Plan)	
WSU University Physician Group (UPG) Board of Directors	2011-
WSUPG Executive Board of Directors	2015
Re-elected	2010-
WSUPG Ad-hoc Bylaw Committee	2015
WSUPG Governance/Nominating Committee	2014-
WSUPG Strategic Planning Committee	2016
UPG OB/GYN Departmental Practice Committee	2013-
Departmental Advisory Committee	2015
Medical Director - <i>University Women's Care (UWC)/</i>	2013-
<i>University Physician's Group (UPG) -Southfield</i>	2015
Leads/Administrative Committee	2012- 2014
<i>Patient Care</i>	2008 2008-2017
Approximately 4 office sessions/week which consist of:	2015
Reproductive Endocrine and Infertility (REI) and Gynecology patients	2008-
Supervision of Sonographers: in REI and Gynecologic Ultrasound	2015
Approximately 1-2 sessions/week Gynecologic surgery	2001-
Approximately 1-2 sessions/week of Office procedures	2005
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-
Approximately 2-3 office sessions for procedures	present
Daily Noon IVF meetings (7 days/week)	2017-
Patient Management	present
Affiliate Medical Organizations	2001-2017
Oakwood Ventures Board of Trustees	2001-2017
DMC Specialist in Chief	
Karmanos Specialist in Chief	2012- 2015 2010- 2015 2010- 2015

Professional	
Illinois State Medical Society Alternate Delegate	2018-
Detroit Medical Academy	2019
Michigan Osteoporosis Society- Member	2012-
	2018
Consulting	2002-
Abbott Laboratory Consulting	2007
Ethicon Surgical	6
Roche and GlaxoSmithKline Laboratories,	199
BONIVA® Ob/Gyn Advisory	8
Board Meeting for Osteoporosis	200
Eli Lilly Evista Advisory Board	2006-2008
Ferring Advisory Board	2007-2008
Femasys	2017-
Guerbet	present
	2018

SCHOLARLY SERVICE:

Local Hospital Committees	
Hutzel Women's Hospital Visioning Committee	200
Hutzel Hospital Steering Committee	1
National Boards and Committees	200
American College of Obstetrics and Gynecology (ACOG)	2
	2003
Annual Meeting Abstract Selection Committee	
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-
Associate of Professors of Gynecology and Obstetrics (APGO)	present
	2000-2006
Undergraduate Medical Education Committee (UMEC)	
American Society for Reproductive Medicine (ASRM): Website Committee Member at Large	2003-2009
American Society for Reproductive Medicine (ASRM): Women's Council Member at Large	2000-2001

Council Co-Chair	2002-
Council Chair	2003
	2004-
American Society for Reproductive Medicine (ASRM):	2005
Post Graduate Courses	
Program Coordinator	200
Program Co-Chair	4
Program Chair	200
	5
American Society for Reproductive Medicine (ASRM)	200
Board of Directors	2006-2009
American Society for Reproductive Medicine (ASRM)	
Publications Committee	2006-
Chair	2009
	2008-
American Society for Reproductive Medicine (ASRM)	2009
Sexuality Special Interest Group (SSIG)	
Abstract Committee	2005-
Secretary	2008
Vice Chair	2008-
Chair	2009
	2009
American Society for Reproductive Medicine (ASRM)	2009-
Imaging Special Interest Group	2011
Abstract Committee	2008-
Secretary	present
Chair	2008-2009
	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-
SREI Board of Directors	2014
	2012-
ASRM Pediatric and Adolescent Special Interest Group	2014
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	2019- present
Femblock Clinical Events Committee (similar to a Data Monitoring Committee)	
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
Grant Review and Award Selection Committee	
The Association of Professors of Gynecology and Obstetrics Foundation Awards Selection Committee	2004, 2005
National	
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	2017, 2018, 2020
ZRG-1 EMNR-D10	2020
Review Meeting March 19-20, 2020	
Yun-Shang Piao, Ph.D., SRO	
NIH Women’s Reproductive Health Research (WRHR) Program (K12)	
RFA-HD-20-013 WRHR Program (ZHD1 DSR Z 55)	4/29-4/30/2020
Peter Zelazowski, PhD. As SRO	
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, 5th 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

Systems Biology in Reproductive Medicine

Journal of Gynecology and Obstetrics

INVITED ACTIVITIES:

ASRM MODERATOR, Clinical Endocrinology

ASRM MODERATOR, Pediatric and Adolescent Gynecology (PAG) 2000

ASRM Clinical Infertility & Gynecology Abstract Committee 2001

ACOG Abstract Committee 2002

ASRM PRIZE PAPER Committee Judge 2002-

ASRM MODERATOR, General Program Prize Paper Candidates' 2005

Abstract session 2002,

ASRM Abstract Chair for Human Sexuality Special Interest Group 2003

ASRM MODERATOR: Human Sexuality Special Interests Group 2003,

ASRM Poster Judge 2004

ASRM Abstract reviewer for Imaging in Reproductive Medicine 2004

ASRM Co-chair of the IRM Abstract Sessions 2005

ASRM Abstract reviewer for Sexuality Special Interest Group 2007

CREOG/APGO Abstract reviewer/judge for the CREOG/APGO 2007

(Not updated since 2008) 2008

ACOG Michigan Section Junior Fellow Research Day – Judge 2008

ASRM Prize Poster Judging Committee and Chair 2013

AIUM REI Ultrasound Practice Guideline Committee Chair 2017

ASRM PAGs Abstract Reviewer 2017-

AIUM Gynecologic Case Challenges Moderator 2018

AIUM Abstract Reviewer 2019,

2020

12/7/202

0 2020

TEACHING:

Years at Wayne State University

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

Courses taught at Wayne State University

3rd Year WSU Medical Student Advisor (1-3 students every 8 weeks)

3rd Year WSU Medical Students OB/Gyn Core Lecture Series

3rd Year WSU Medical Students on Clinical Rotation at University Women's Care

4th Year Visiting Medical Students on Elective Rotation (one-on-one teaching)

4th Year WSU Medical Students on Elective Rotation (one-on-one teaching)

WSU OB/GYN 2nd year Resident Clinical Rotation (one-on-one teaching)

WSU OB/GYN 2nd and 4th year Resident Gynecologic Ultrasound Training (one-on-one)

WSU OB/GYN Resident Gynecologic Surgery Training

WSU OB/GYN Resident Laparoscopy Training Laboratory

WSU OB/GYN Resident Mentor for 2 residents 2000-2001

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 REI InVia Fertility	Continuing
Clinical IVF procedure training REI InVia Fertility Office	basis 2019-
hysteroscopy training REI InVia Fertility Office HSG/SIS training	present 2019-
PSL 7710 Course faculty PSL 7690 Course faculty	present 2019-
	present 2006-
	present 2013-
	present

Allied Medical Health Teaching:

WSU Medical Genetics, Lecturer in MBG 7741 Course	2002-2009
Nursing Students, University Women's Care-Southfield site	
Medical Assistants, University Women's Care-Southfield site	2001-2015
UWC Southfield Staff In-service Speaker & Coordinator	
WSU Midwife Program Speaker	2002-2010
<i>Course or curriculum development</i>	
Gynecologic Ultrasound Training for Residents and Fellows	2002-2010
<i>Course materials</i>	
	2005, 2007-
Problem-based learning cases for REI Core Lectures at WSU	
	2009
Teaching at Other Institutions:	

Years at Northwestern University

Affiliation with Northwestern University, approximately 7.5 years	
<i>Courses taught at Northwestern University</i>	
2nd Year Scientific Basis of Disease Course Lecturer	
3rd Year Clerkship Director	
3rd Year Noon Lecture Series (Weekly)	
3rd Year Student Advisor	1993-2000
4th Year Reproductive Endocrine and Infertility Elective Director	
4th 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	
<i>Course or curriculum development at Northwestern University</i>	
Women's Health Multidisciplinary 4th 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 1st and 2nd year Curriculum
 Executive Curriculum Committee Revision of the 3rd year Curriculum
 Clinical Taskforce for Revision of the 4th 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:

Name

Year Graduated

Fellows:

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

Charalampos (Harry) Chatzicharalampous 2019 (REI and Medical Genetics)

Sicily Garvin 202

Ramya Sethura 0

202

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Ali Bassi		2024	
Residents in Research Projects:			
Cassie Laasch			
Anthony Imudia		2004	
Zeynep Alpay		2006-	
Valerie Shavell		2009	
Jackie Gutterman (ACOG grant)		2007-	
Michael Adawalla		2008	
Aliye Runyan		2008-	
Luis Hoyos		2009	
Students in Research Projects:			
Jodilyn Jelsema		2013-	
		2017	
		2014-	
		2017	
Genetic Counseling Student Master's Project		2015-	
Kate Zellmer		2010	
Veronica Kokavec		2010	
Mentoring Faculty for P&T:			
		2009-	
		2011	
Steve Ondersma	Psychology	2007	Professor, Tenured Professor,
Sonia Hassan	MFM Gyn	2007	Tenured Professor, Clinician
Robert Morris	Oncology	2008	Educator track Associate
Jay Berman	Gynecology	2008,	Professor, CE Track Professor,
Jay Berman	Gynecology	2016	Clinician Educator track
Karoline Puder	MFM	2008	Associate Professor, CE track
Kang Chen	Research REI	2012-	Associate Professor, tenure
Awoniyi Awonuga		2016	track Professor, Clinician
		2016	Educator track
Thesis Committee for Dissertations Directed			
Jimmy Belotte	PhD	2011-2016	PhD Thesis Committee
WRHR			
Rani Fritz			
Jimmy Belotte		2013-2015	(Awards: SREI President's Award 2015)
Roohi Jeelani		2011-2016	(PhD-2016)
Maurice Recanati		2016-2017	
	OB/GYN	2017-present	
Course or Curriculum Development			
Gynecologic ultrasound program			
MedCases		2002-present	2000-
Problem-Based Learning scenarios		2003,	2010-2012
Nutrition Clinician		1997-2002	1997-
		1999	
GRANTS, CONTRACTS, AND OTHER FUNDING:			
Active National/International Grants and Contracts:			

1. NICHD "WSU Cooperative Reproductive Medicine Network Center"

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. 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. 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 Independent 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
- 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
3. 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
 4. 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
 5. ~~OBSEVA~~ Phase 0/1, 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
 6. 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.
 7. 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.
 8. 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.
 9. 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. 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 to assess the efficacy and safety of different dose combinations of an aromatase inhibitor and a progestin in an intravaginal ring versus placebo and leuporelin/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, M.D., 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.

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: Michael Diamond, Elizabeth Puscheck, M.D., M.S. (Mentor)
7. NICHD Grant, Yale subcontract: "Pregnancy in Polycystic Ovary Syndrome II (PPCOS 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 (SYSTEN) 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.
- 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, MD, Co-PI: Elizabeth Puscheck, M.D., M.S.
9. 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.
10. 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.
11. R.W. Johnson Pharmaceutical Research & Development: “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.
12. 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 EstrostepR Fe.” Grant Amount: \$61,105.00. Grant Period: 02/1998-02/1999. PI: Ralph Kazer, M.D. Co-PI: Elizabeth Puscheck, M.D., M.S.
13. 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, MD, Co-PI: Elizabeth Puscheck, M.D., M.S.
14. 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.
15. 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: 9/03-1/04.
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 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. PI: Elizabeth Puscheck, M.D., M.S.
34. Meditrina Pharmaceuticals, Inc. 06-1-P1-0275. 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: 3/2009-2/2011. 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., 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

4rd 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
3rd 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
43rd 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.
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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.
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13. Puscheck EE, Bolnick A, Awonuga A, Yang Y, Abdulhasan M, Li Q, Secore E, Loudon E, Huttemann M, Rappolee DA. Why AMPK agonists not known to be stressors may surprisingly contribute to miscarriage in IVF/ART. *J Assist Reprod Genet* 2018; 35(8):1359-1366. PMID: 29882092.
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