

December 14, 2018



Signature/Date of Preparation

ELIZABETH E. PUSCHECK, M.D., M.S., M.B.A., FACOG

CLINICAL OFFICE ADDRESS:

InVia Fertility

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

3 additional locations for InVia Fertility:

1535 Lake Cook Road, Suite 506
Northbrook, IL 60062

880 W. Central Road, Suite 3400
Arlington Heights, IL 60005

407 Congress Parkway
Crystal Lake, IL 60014

Phone number (all locations): 847-884-8884

Fax (all locations): 847-884-0924

ACADEMIC RESEARCH OFFICE ADDRESS:

C.S. Mott Center for Human Growth and Development

275 E. Hancock Street

Detroit, MI 48201

Cell phone: (313) 378-8215

Email: epushec@med.wayne.edu

HOME ADDRESS:

1280 Rudolph Road, 3C

Northfield, IL 60062

Cell Phone: (313) 378-8215

Personal Email: 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	1991-1993
Medical College of Georgia	
Augusta, GA	

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	2004
Wayne State University School of Medicine	
Fridays @ Shiffman Learning Café Series	

Manuscript Writing Program	2004
Wayne State University School of Medicine	
Shiffman Medical Library	

Recertified:

Bone Densitometry	2004-2014
International Society for Clinical Densitometry	
Certified Clinical Densitometrist (CCD) (original certification 10/2001)	

Basic Life Support (current, 2018-2020)

Advanced Cardiac Life Support (ACLS)

Pfizer Clinical Investigator Training Program	2005
HIPAA Trainer	2005
Citi modules Good Clinical Practice (continuous updates)	

FACULTY APPOINTMENTS:

Adjunct Professor University of Windsor, Canada	2016-present
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 Northwestern University Medical School	1995-2000
Instructor Northwestern University Medical School	1993-1995

OTHER LEADERSHIP ROLES

REI Division Director	2013-2017
REI Fellowship Director	2013-2017
Kamran Moghissi Endowed Chair Wayne State University School of Medicine	2013-Present
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	2010-2015

Obstetrics and Gynecology

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-Present
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 Society for Reproductive Medicine (ASRM)	
Association of Professors of Gynecology and Obstetrics (APGO)	
American Institute of Ultrasound in Medicine (AIUM)	
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)	1996-present
--	--------------

ABOG ID#917626 Current.

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)	1994-2016
Illinois License, Issued (inactive status)	1993-2005
Michigan License (active status)	2000-2016

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 International Biographical Centre, Cambridge, England.	2007
Who's Who Among American Teachers & Educators, 11 th Edition	2007
America's Top Obstetricians and Gynecologists, Consumer's Research Council of America, Washington, D.C.	2009-2017
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
"William Heath Byford Award", Northwestern University Feinberg School of Medicine, Department of Obstetrics & Gynecology Resident Alumni Day. Award presented to individual who made	2011

major contribution to the specialty.

ASRM Star Award. Awarded to reproductive health professionals who have presented at least 9 of the last 10 ASRM Annual Meetings.	2013-2017
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	2012-2016
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	
Combined REI, Medical Endocrine, and Pediatric Endocrine Quarterly meetings	
Clinical Meetings	2000-2017

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	2008-2016
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 st in the country)	2014-2017
WSU Reproductive Endocrinology and Infertility Division Director	2014-2017
WSU OB/GYN Clinical Competency Committee	2014-2016
WSU OB/GYN Program Evaluation Committee	2014-2017
Departmental Meeting Executive Committee, Member	2016
Wayne State University - School of Medicine	
WSU SOM Executive Committee Vice President	2017
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-present
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 Re-elected (2008, 2011, 2014)	2005-2017
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 Committee Sponsored, organized and presented - "Financing Your Retirement in Turbulent Times".	2005-2017
Best Practices for Faculty Teaching Evaluations- AAUP-AFT Academic Forum	2/25/09 2017
UPG (WSU Physician Practice Plan)	
WSU University Physician Group (UPG) Board of Directors	2011-2015
WSUPG Executive Board of Directors Re-elected	2010-2015 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	2008-2017
Departmental Advisory Committee	2008-2016
Medical Director - <i>University Women's Care (UWC)/ University Physician's Group (UPG) -Southfield</i> Leads/Administrative Committee	2001-2005

Patient Care

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)

Daily Noon IVF meetings (7 days/week)

2001-2017

Patient Management

2001-2017

Affiliate Medical Organizations

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

Detroit Medical Academy

2012-2017

Michigan Osteoporosis Society- Member

2002-2017

Consulting

Abbott Laboratory Consulting

1996

Ethicon Surgical

1998

Roche and GlaxoSmithKline Laboratories,

2004

BONIVA® Ob/Gyn Advisory

Board Meeting for Osteoporosis

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)

2003

Annual Meeting Abstract Selection Committee

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 Senior Member	2014-present
Associate of Professors of Gynecology and Obstetrics (APGO) Undergraduate Medical Education Committee (UMEC)	2000-2006
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	2002-2003
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
American Society for Reproductive Medicine (ASRM) Taskforce for the Fertility and Sterility	

Editorial Transition Team	2008-2011
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
NIH SBIR/STTR Study Section	2017- Present
The Council of University Chairs of Obstetrics & Gynecology (CUCOG) CUCOG Fellowship Program, Chair	2015
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	2009-present
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 th 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
 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	2000
ASRM MODERATOR, Pediatric and Adolescent Gynecology	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 Poster Judging Committee and Chair	2017
AIUM REI Ultrasound Practice Guideline Committee Chair	2017
AIUM Chair of the Focused REI Ultrasound Practice Parameter	2017-2018
ACOG REI Prolog Writing Committee	2018
ABOG REI Oral Examiner	2018
Fertility and Sterility Invited Editorials (2)	2018
NICHD STTR/SBIR Study Section	2017-2018

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 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
 REI Fellow Gynecologic Ultrasound Training Continuing basis

PSL 7710 Course faculty 2006-present

PSL 7690 Course faculty 2013-present

Allied Medical Health Teaching:

WSU Medical Genetics, Lecturer in MBG 7741 Course 2002-2009

Nursing Students, University Women's Care-Southfield site 2001-2010

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

Courses taught at Northwestern University

2nd Year Scientific Basis of Disease Course Lecturer
 3rd Year Clerkship Director

3rd Year Noon Lecture Series (Weekly)
 3rd Year Student Advisor
 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

Course or curriculum development at Northwestern University

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
Michael Freeman	2002
Subodhsingh Chauhan	2003
April Gago	2005
Frank Yelian	2005
Mohammad Mitwally	2006
Rahi Victory	2006
Laura Detti	2007
Pravin Goud	2008
Niyi 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
Sicily Garvin	2020

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-present	Assistant Professor, PhD
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

Course or Curriculum Development

Gynecologic ultrasound program	2002-2017
--------------------------------	-----------

MedCases	2000-2003
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)**” 2-K12-HD-001254-13. Total Direct Award: \$3,297,523. Grant Period: 9/1/11 – 8/31/14; No cost extension. **Renewed 2015-2020. PI: Elizabeth Puscheck, M.D., M.S.** Transferred to Dr. CD Hsu (2016)

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:

1. Contributions & Pitch Deck for PNB**Other contributing person: Elizabeth Puscheck, M.D., M.S.**
2. 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: 6/2017-5/2018. **PI: Elizabeth Puscheck, M.D., M.S., M.B.A.**
3. 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.**

4. 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.**
5. 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.**
6. 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: \$251,864. Grant period: 5/2016-present. **PI: Elizabeth Puscheck, M.D., M.S.**
7. 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: \$1,211,383.00. Grant period: 9/2016-6/2017. **PI: Elizabeth Puscheck, M.D., M.S.**
8. 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.**
9. 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.**
10. 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.**
11. 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.

12. **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**
13. Department of Ob/Gyn. **“Toward Healthy Pregnancy”. 2016 – present. 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 (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 Varicocele 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.**

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.
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. Renewed 09/26/2017. Supported by WSU, March 2016

INVITED SPEAKER

AIUM Invited Speaker "Clinical Pearls in Infertility Imaging"	04/08/2019
4 th Annual Detroit Ob/Gyn Ultrasound Symposium Wayne State University School of Medicine Detroit, MI "Imaging of Endometriosis and Adenomyosis" "Challenging Cases in Infertility"	10/27/2018
North Shore Evanston Hospital OB/GYN Grand Rounds Clinical Pearls in Gynecologic and Infertility Ultrasound	8/15/2018
3 rd 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 rd 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	3/25-28/2017

PUBLICATIONS:

Peer Reviewed Publications

Reports of Original Works:

1. Li Q, Louden E, Zhou J, Drewlo S, Dai J, **Puscheck** EE, Chen K, Rappolee DA. Stress forces first lineage differentiation of mouse Embryonic Stem Cells, validation of a high throughput screen for toxicant stress. *Stem Cells Dev*. 2018 Oct 17. doi: 10.1089/scd.2018.0157. [Epub ahead of print] PMID:30328800
2. Awonuga AO, Wheeler K, Thakur M, Jeelani R, Diamond MP, **Puscheck** EE. The value of delaying hCG administration to enable maturation of medium-sized follicles in patients undergoing superovulation for IVF/ICSI. *J Assist Reprod Genet*. 2018 Feb;35(2):289-295. doi: 10.1007/s10815-017-1056-6. Epub 2017 Sep 30. PMID: 28965278.
3. 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 (Mar 21). PMID: 29562866.
4. Thakur M, Feldman G, **Puscheck** EE. Primary ovarian insufficiency in classic galactosemia: current understanding and future research opportunities. *J Assist Reprod Genet*. 2018 Jan;35(1):3-16. doi: 10.1007/s10815-017-1039-7. Epub 2017 Sep 20. PMID: 28932969
5. 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 Dec;35(12):2173-2180. doi: 10.1007/s10815-018-1306-2. Epub 2018 Sep 7. PMID: 30194618
6. Evans-Hoeker EA, Eisenberg E, Diamond MP, Legro RS, Alvero R, Coutifaris C, Casson PR, Christman GM, Hansen KR, Zhang H, Santoro N, Steiner AZ Major depression, antidepressant use, and male and female fertility.; Reproductive Medicine Network. *Fertil Steril*. 2018 May;109(5):879-887. doi: 10.1016/j.fertnstert.2018.01.029. PMID: 29778387

7. Yang Y, Abdulhasan M, Awonuga A, Bolnick A, **Puscheck EE**, Rappolee DA. Hypoxic stress forces adaptive and maladaptive placental stress responses in early pregnancy. *Birth Defects Res* 2017;109(17):1330-1344. PMID 29105384
8. Hoyos LR, Khan S, Dai J, Singh M, Diamond MP, **Puscheck EE**, Awonuga AO. Low dose urinary hCG is effective for oocyte maturation in IVF/ICSI cycles independent of body mass index. In Press. *International Journal of Fertility and Sterility* 2016. In Press
9. Awonuga AO, Wheeler KC, Thakur M, Jeelani R, Diamond MP, **Puscheck EE**. The value of delaying hCG administration to enable maturation of medium-sized follicles in patients undergoing superovulation for IVF/ICSI. *J Assist Reprod Genet.* 2017 Sep 30. doi: 10.1007/s10815-017-1056-6. [Epub ahead of print] PMID:28965278
10. Thakur M, Feldman G, **Puscheck EE**. Primary ovarian insufficiency in classic galactosemia: current understanding and future research opportunities. *J Assist Reprod Genet.* 2018;35(1):3-16. Epub 2017 Sep 20 doi: 10.1007/s10815-017-1039-7. [Epub ahead of print] PMID:28932969
11. Bolnick A, Abdulhasan M, Kilburn B, Xie Y, Howard M, Anderson P, Shamir AM, Dai J, **Puscheck EE**, Secor E, Rappolee DA. Two-cell embryos are more sensitive than blastocysts to AMPK-dependent suppression of anabolism and stemness by commonly used fertility drugs, a diet supplement, and stress. *J Assist Reprod Genet.* 2017 Sep 15. doi: 10.1007/s10815-017-1028-x. [Epub ahead of print] PMID:28913567
12. Abdulhasan MK, Li Q, Dai J, Abu-Soud HM, **Puscheck EE**, Rappolee DA. CoQ10 increases mitochondrial mass and polarization, ATP and Oct4 potency levels, and bovine oocyte MII during IVM while decreasing AMPK activity and oocyte death. *J Assist Reprod Genet.* 2017 Sep 12. doi: 10.1007/s10815-017-1027-y. [Epub ahead of print] PMID:28900834
13. Hoyos LR, Johnson S, **Puscheck E**. Endometriosis and Imaging. *Clin Obstet Gynecol.* 2017 Sep; 60(3):503-516. doi: 10.1097/GRF.0000000000000305. PMID: 28742582
14. Bolnick A, Awonuga AO, Yang Y, Abdulhasan M, Xie Y, Zhou S, **Puscheck EE**, Rappolee DA. Using stem cell oxygen physiology to optimize blastocyst culture while minimizing hypoxic stress. *J Assist Reprod Genet.* 2017;34(10):1251-1259. Epub Jun 24. doi: 10.1007/s10815-017-0971-x. [Epub ahead of print]. PMID: 28647787
15. Yang Y, Bolnick A, Shamir A, Abdulhasan M, Li Q, Parker GC, **Puscheck EE**, Rappolee DA. Blastocyst-Derived Stem Cell Populations under Stress: Impact of Nutrition and Metabolism on Stem Cell Potency Loss and Miscarriage. *Stem Cell Rev.* 2017 Aug;13(4):454-464. doi: 10.1007/s12015-017-9734-4. PMID:28425063
16. Jeelani R, **Puscheck EE**. Imaging and the Infertility Evaluation. *Clin Obstet Gynecol.* 2017 Mar, 60(1):93-107. Doi: 10.1097/GRF.0000000000000268. PMID: 28106643
17. Hoyos LR, Benacerraf B, **Puscheck EE**. Imaging in Endometriosis and Adenomyosis. *Clin Obstet Gynecol.* 2017 Mar;60(1):27-37. doi: 10.1097/GRF.0000000000000265.

18. Engmann L, Jin S, Sun F, Legro RS, Polotsky AJ, Hansen KR, Coutifaris C, Diamond MP, Eisenberg E, Zhang H, Santoro N, Reproductive Medicine Network. Racial and ethnic differences in the polycystic ovary syndrome metabolic phenotype. *Am J Obstet Gynecol* 2017;216(5):493 e1-13. Epub Jan 16. PMID: 28104402. [epub ahead of print]
19. Hung B, Faucette AN, Pawlitz MD, Pei B, Goyert JW, Zhou JZ, el-Hage NG, Deng J, Lin J, Yao F, Dewar RS 3rd, Jassal JS, Sandberg ML, Dai J, Cols M, Shen C, Polin LA, Nichols RA, Jones TB, Bluth MH, Puder KS, Gonik B, Nayak NR, **Puscheck E**, Wei WZ, Cerutti A, Colonna M, Chen K. Interleukin-33-induced expression of PIBF1 by decidual B cells protects against preterm labor. *Nat Med* 2017;23(1):128-135. Epub 2016 Dec 5. Doi:10.1038/nm.4244 [Epub ahead of print]. PMID: 27918564
20. Yang Y, Jiang Z, Bolnick A, Dai J, **Puscheck EE**, Rappolee DA. Departure from optimal O₂ level for mouse trophoblast stem cell proliferation and potency leads to most rapid AMPK activation. *J Reprod Dev* 2017;63(1):87-94. PMID:27867161
21. Yang Y, Arenas-Hernandez M, Gomez-Lopez N, Dai J, Parker GC, **Puscheck EE**, Rappolee DA. Hypoxic stress forces irreversible differentiation of a majority of mouse trophoblast stem cells to giant cell fate despite FGF4. *Biol Reprod* 2016;95(5):110. Epub 2016 Sep 28. [Epub ahead of print]. PMID: 27683262
22. *Alrahmani L, Abdelsattar ZM, Adekola H, **Puscheck EE**, Gonik B, Awonuga AO. "Risk-Profiles and Outcomes of Multi-fetal Pregnancies in Adolescent Mothers". *Journal of Obstetrics and Gynaecology* 2016;36(8):1056-1060. [Epub 2016 Sep 13]. PMID: 27624001
23. Yang Y, Parker GC, **Puscheck EE**, Rappolee DA. Direct reprogramming to multipotent trophoblast stem cells, and is pluripotency needed for regenerative medicine either? *Stem Cell Investig* 2016;3:24. [Epub 2016 June 05] PMID: 27487747.
24. **Bolnick A, Abdulhasan M, Kilburn B, Xie Y, Howard M, Andresen P, Shamir AM, Dai J, **Puscheck EE**, Rappolee DA. Commonly used fertility drugs, a diet supplement, and stress force AMPK-dependent block of stemness and development in cultured mammalian embryos. *J Assist Reprod Genet.* 2016;33(8):1027-39. Epub 2016 May 26. PMID: 27230877
25. Yang Y, Xu Y, Ding C, Khoudja RY, Lin M, Awonuga AO, Dai J, **Puscheck EE**, Rappolee DA, Zhou C. Comparison of 2, 5, and 20 % O₂ on the development of post-thaw human embryos. *J Assist Reprod Genet.* 2016;33(7):919-27. Epub 2016 Mar 23. PMID: 27007876
26. Barnhart KT, Nakajima ST, **Puscheck EE**, Price TM, Baker VL, Segars J. Practice patterns, satisfaction, and demographics of reproductive endocrinologists: results of the 2014 Society for Reproductive Endocrinology and Infertility Workforce Survey. *Fertil Steril.* 2016 May;105(5):1281-6. doi: 10.1016/j.fertnstert.2015.12.135. Epub 2016 Jan 13. PMID: 26774576

27. Coding Committee of the American Society for Reproductive Medicine (**Puscheck EE** and other members). Correct coding for laboratory procedures during assisted reproductive technology cycles. *Fertil Steril*. 2016 Apr;105(4):e5-8. doi: 10.1016/j.fertnstert.2015.12.042. Epub 2015 Dec 30. PMID: 26746136
28. Li Q, Gomez-Lopez N, Drewlo S, Sanchez-Rodriguez E, Dai J, **Puscheck EE**, Rappolee DA. Development and validation of a Rex1-RFP potency activity reporter assay that quantifies stress-forced potency loss in mouse embryonic stem cells. *Stem Cells Dev*. 2016 Feb 15;25(4):320-8. doi: 10.1089/scd.2015.0169. Epub 2016 Jan 29. PMID: 26651054
29. Steiner AZ, Diamond MP, Legro RS, Schlaff WD, Barnhart KT, Casson PR, Christman GM, Alvero R, Hansen KR, Geisler WM, Thomas T, Santoro N, Zhang H, Eisenberg E. **Reproductive Medicine Network**. Chlamydia trachomatis immunoglobulin G3 seropositivity is a predictor of reproductive outcomes in infertile women with patent fallopian tubes. *Fertil Steril* 2015. Dec;104(6):1522-6. doi:10.1016/j.fertnstert.2015.08.022. PMID: 26413816
30. Diamond MP, Legro RS, Coutifaris C, Alvero R, Robinson RD, Casson P, Christman GM, Ager J, Huang H, Hansen KR, Baker V, Usadi R, Seungdamrong A, Bates GW, Rosen RM, Haisenleder D, Krawetz SA, Barnhart K, Trussell JC, Ohl D, Jin Y, Santoro N, Eisenberg E, Zhang H; **NICHD Reproductive Medicine Network**. Letrozole, gonadotropin, or clomiphene for unexplained infertility. *N Engl J Med*. 2015;373(13):120-40. Doi:10.1056/NEJMoa1414827. PMID: 26398071.
31. Kuang H, Jin S, Thomas T, Engmann L, Hansen KR, Coutifaris C, Casson P, Christman G, Alvero R, Santoro N, Eisenberg E, Diamond MP, Legro RS, Zhang H. **Reproductive Medicine Network**. Predictors of participant retention in infertility treatment trials. *Fertil Steril* 2015. 104(5):1236-43. PMID: 26354094
32. Kuang H, Jin S, Hansen KR, Diamond MP, Coutifaris C, Casson P, Christman G, Alvero R, Huang H, Bates GW, Usadi R, Lucidi S, Baker V, Santoro N, Eisenberg E, Legro RS, Zhang H; **Reproductive Medicine Network**. Identification and replication of prediction models for ovulation, pregnancy and live birth in infertile women with polycystic ovary syndrome. *Hum Reprod*. 2015 Jul 22. pii: dev182. [Epub ahead of print] PMID:26202922
33. **Puscheck EE**, Awonuga AO, Yang Y, Jiang Z, Rappolee DA. Molecular biology of the stress response in the early embryo and its stem cells. *Adv Exp Med Biol*. 2015;843:77-128. doi: 10.1007/978-1-4939-2480-6_4. PMID: 25956296.
34. Diamond MP, Legro RS, Coutifaris C, Alvero R, Robinson RD, Casson P, Christman GM, Ager J, Huang H, Hansen KR, Baker V, Usadi R, Seungdamrong A, Bates GW, Rosen RM, Haisenleder D, Krawetz SA, Barnhart K, Trussell JC, Jin Y, Santoro N, Eisenberg E, Zhang H; National Institute of Child Health and Human Development (**NICHD**) **Reproductive Medicine Network**. Assessment of multiple intrauterine gestations from ovarian stimulation (AMIGOS) trial: baseline characteristics. *Fertil Steril*. 2015 Apr;103(4):962-973. PMID:25707331.

35. Legro RS, Chen G, Kunselman AR, Schlaff WD, Diamond MP, Coutifaris C, Carson SA, Steinkampf MP, Carr BR, McGovern PG, Cataldo NA, Gosman GG, Nestler JE, Myers ER, Zhang H, Foulds J; **Reproductive Medicine Network**. Smoking in infertile women with polycystic ovary syndrome: baseline validation of self-report and effects on phenotype. *Hum Reprod*. 2014 Dec;29(12):2680-6. PMID:25324541. PMCID: PMC4227579.
36. Xie Y, Zhou S, Jiang Z, Dai J, **Puscheck EE**, Lee I, Parker G, Hüttemann M, Rappolee DA. Hypoxic stress induces, but cannot sustain trophoblast stem cell differentiation to labyrinthine placenta due to mitochondrial insufficiency. *Stem Cell Res*. 2014 Nov;13(3 Pt A):478-91. doi: 10.1016/j.scr.2014.07.007. Epub 2014 Jul 30. PMID: 25239494 PMCID: PMC4253717
37. Slater JA, Zhou S, **Puscheck EE**, Rappolee DA. Stress-induced enzyme activation primes murine embryonic stem cells to differentiate toward the first extraembryonic lineage. *Stem Cells Dev*. 2014 Dec 15;23(24):3049-64. doi: 10.1089/scd.2014.0157. PMID: 25144240. PMCID: PMC4267551
38. Legro RS, Brzyski RG, Diamond MP, Coutifaris C, Schlaff WD, Casson P, Christman GM, Huang H, Yan Q, Alvero R, Haisenleder DJ, Barnhart KT, Bates GW, Usadi R, Lucidi S, Baker V, Trussell JC, Krawetz SA, Snyder P, Ohl D, Santoro N, Eisenberg E, Zhang H; **NIH Reproductive Medicine Network**. Letrozole versus clomiphene for infertility in the polycystic ovary syndrome. *N Engl J Med* 2014;371(2):119-29. Erratum in: *N Engl J Med* 2014;317(15):1465. PMID 25006718.
39. **Goud PT, Goud AP, Joshi N, **Puscheck E**, Diamond MP, Abu-Soud HM. Dynamics of nitric oxide, altered follicular microenvironment, and oocyte quality in women with endometriosis. *Fertil Steril*. 2014 Jul;102(1):151-159.e5. doi: 10.1016/j.fertnstert.2014.03.053. Epub 2014 May 10. Erratum in: *Fertil Steril*. 2014 Sep;102(3):908. PMID: 24825428
40. Xie Y, Awonuga AO, Liu J, Rings E, **Puscheck EE**, Rappolee DA. Stress induces AMP-dependent loss of potency factors Id2 and Cdx2 in early embryos and stem cells. *Stem Cells Dev*. 2013 May 15; 22(10): 1564–1575. doi: 10.1089/scd.2012.0352 PMID 23316940 PMCID: PMC3653377
41. Rappolee DA, Zhou S, **Puscheck EE**, and Xie Y. Stress responses at the endometrial-placental interface regulate labyrinthine placental differentiation from trophoblast stem cells. *Reproduction* 2013;145(5):R139-55. PMID 23463790
42. Rappolee DA, Xie Y, Slater JA, Zhou S, **Puscheck EE**. Toxic stress prioritizes and imbalances stem cell differentiation: Implications for new biomarkers and in vitro toxicology tests. *Syst Biol Reprod Med* 2012 Feb;58(1):33-40. PMID: 22239079 PMCID: PMC3278038
43. **Woodard TL, Awonuga AO, **Puscheck E**. Malignant transformation of endometrioma in a woman with a history of ovulation induction and in vitro fertilization. *Case Rep Med* 2012;497362. PMID: 23304157 PMCID: PMC3529507

44. Roth LW, Huang H, Legro RS, Diamond MP, Coutifaris C, Carson SA, Steinkampf MP, Carr BR, McGovern PG, Cataldo NA, Gosman GG, Nestler JE, Myers ER, Zhang H, Schlaff WD; **Reproductive Medicine Network**. Altering hirsutism through ovulation induction in women with polycystic ovary syndrome. *Obstet Gynecol*. 2012;119(6):1151-6. doi: 10.1097/AOG.0b013e31825618fb. PMID: 22617579

45. *Shavell VI, *Thakur M, *Sawant A, Kruger ML, Jones TB, Singh M, **Puscheck EE**, Diamond MP. Adverse obstetric outcomes associated with sonographically identified large uterine fibroids. *Fertil Steril* 2012;97(1):107-10. PMID 22100166

46. Berman J, **Puscheck EE**, Diamond MP. Full-term vaginal live birth after laparoscopic radiofrequency ablation of a large symptomatic intramural fibroid: a case report. *J Reprod Med* 2012;57(3-4):159-63. PMID: 22523877

47. Legro RS, Kunselman AR, Brzyski RG, Casson PR, Diamond MP, Schlaff WD, Christman GM, Coutifaris C, Taylor HS, Eisenberg E, Santoro N, Zhang H; **NICHD Reproductive Medicine Network**. The pregnancy in polycystic ovary syndrome II (PCOSII) trial: rationale and design of a double-blind randomized trial of clomiphene citrate and letrozole for the treatment of infertility in women with polycystic ovary syndrome. *Contemp Clin Trials*. 2012 May;33(3):470-81. doi: 10.1016/j.cct.2011.12.005. Epub 2012 Jan 13. PMID: 22265923.

48. Aubuchon M, Kunselman AR, Schlaff WD, Diamond MP, Coutifaris C, Carson SA, Steinkampf MP, Carr BR, McGovern PG, Cataldo NA, Gosman GG, Nestler JE, Myers ER, Legro RS; **Reproductive Medicine Network**. Metformin and /or clomiphene do not adversely affect liver or renal function in women with polycystic ovary syndrome. *J Clin Endocrinol Metab*. 2011 Oct;96(10):E1645-9. doi: 10.1210/jc.2011-1093. Epub 2011 Aug 10. PMID: 21832111

49. **Shavell VI, **Abdallah ME, *Zakaria MA, Berman JM, Diamond MP, **Puscheck EE**. Misdiagnosis of cervical ectopic pregnancy. *Arch Gynecol Obstet* 2012;285(2):423-6. PMID: 21748311

50. **Awonuga AO, Zhong W, **Abdallah ME, Slater JA, Zhou SC, Xie YF, **Puscheck EE**, Rappolee DA. Eomesodermin, HAND1, and CSH1 proteins are induced by cellular stress in a stress-activated protein kinase-dependent manner. *Mol Reprod Dev* 2011;78(7):519-28. PMID: 21710638 PMCID: PMC3140599

51. Zhou S, Xie Y, **Puscheck EE**, Rappolee DA. Oxygen levels that optimize TSC culture are identified by maximizing growth rates and minimizing stress. *Placenta* 2011;32(6):475-81. PMID: 21511332 PMCID: PMC3096684

52. Legro RS, Schlaff WD, Diamond MP, Coutifaris C, Casson PR, Brzyski RG, Christman GM; Trussell JC, Krawetz SA, Snyder PJ; **Reproductive Medicine Network**. Total testosterone assays in women with polycystic ovary syndrome: precision and correlation with hirsutism. *J Clin Endocrinol Metab* 2010 Dec;95(12):5305-13
53. Rappolee DA, Awonuga AO, **Puscheck EE**, Zhou S, Xie Y. Benzopyrene and Experimental Stressors Cause Compensatory Differentiation in Placental Trophoblast Stem Cells. *Syst Biol Reprod Med*. Author manuscript; available in PMC 2013 November 21. Published in final edited form as: *Syst Biol Reprod Med*. 2010 April; 56(2): doi: 10.3109/19396360903431638 PMID: PMC3836214
54. Levine D, Brown DL, Andreotti RF, Benacerraf B, Benson CB, Brewster WER, Coleman B, DePriest P, Doubilet PM, Goldstein SR, Hamper UM, Hecht JL, Horrow M, Hur HC, Marnach M, Patel MD, Platt LD, **Puscheck E**, Smith-Bindman R. Management of Asymptomatic Ovarian and Other Adnexal Cysts Imaged on Ultrasound: Society of Radiologists in Ultrasound Consensus Conference Statement. *Ultrasound Q* 2010;26(3):121-131. PMID:20823748
55. Zhong W, Xie Y, Abdallah M, Awonuga AO, Slater JA, Sipahi L, **Puscheck EE**, Rappolee DA. Cellular stress causes reversible, PRKAA1/2-, and proteasome-dependent ID2 protein loss in trophoblast stem cells. *Reproduction* 2010 Dec;140(6):921-30. doi: 10.1530/REP-10-0268 PMID: 20876741 PMID: PMC3906848
56. **Awonuga AO, Jelsema J, **Abdallah ME, Berman J, Diamond MP, **Puscheck EE**. The role of hysteroscopic biopsy in obtaining specimens for cytogenetic evaluation in missed abortion prior to suction dilatation and curettage. *Gynecol Obstet Invest* 2010;70(3):149-53. PMID: 20558987
57. Xie Y, **Abdallah ME, **Awonuga AO, Slater JA, **Puscheck EE**, Rappolee DA. Benzo(a)pyrene causes PRKAA1/2-dependent ID2 loss in trophoblast stem cells. *Mol Reprod Dev* 2010;77(6):533-9. doi: 10.1002/mrd.21178 PMID: 20422711 PMID: PMC3858327
58. Messaros BM, Rossano MG, Liu G, Diamond MP, Friderici K, Nummy-Jernigan K, Daly D, **Puscheck E**, Paneth N, Wirth JJ. Negative effects of serum p,p'-DDE on sperm parameters and modification by genetic polymorphisms. *Environ Res* 2009;109(4):457-64. PMID: 19303595
59. Rausch ME, Legro RS, Barnhart HX, Schlaff WD, Carr BR, Diamond MP, Carson SA, Steinkampf MP, McGovern PG, Cataldo NA, Gosman GG, Nestler JE, Giudice LC, Leppert PC, Myers ER, Coutifaris C. **Reproductive Medicine Network**. Predictors of pregnancy in women with polycystic ovary syndrome. *J Clin Endocrinol Metab* 2009;94(9):3458-66. (Collaborator: **Elizabeth Puscheck, M.D., M.S.**)
60. Wang Y, Xie Y, Wygle D, Shen H, **Puscheck EE**, Rappolee DA. A major effect of simulated microgravity on several stages of pre-implantation mouse development is lethality associated with elevated phosphorylated SAPK/JNK. *Reprod Sci* 2009;16(10):947-59. doi: 10.1177/1933719109337544 PMID: 19546324 PMID:

61. **Awonuga AO, Imudia AN, Shavell VI, Berman J, Diamond MP, Puscheck EE. Failed female sterilization: a review of pathogenesis and subsequent contraceptive options. *J Reprod Med*. 2009 Sept; 54(9):541-547. Review PMID: 19947030
62. ** Awonuga AO, **Schenone MH, ** Abdallah ME, Yelian FD, Diamond MP, **Puscheck EE**. Non-adherence to instructions to cancel a cycle in a patient overstimulated with gonadotropins in a planned intrauterine insemination cycle. *J Clin Ethics* 2009;20(3):235-8. PMID 19845194
63. Meeker JD, Rossano MG, Protas B, Diamond MP, **Puscheck E**, Daly D, Paneth N, Wirth JJ. Multiple metals predict prolactin and thyrotropin (TSH) levels in men. *Environ Res* 2009;109(7):869-73. PMID: 19595304 PMCID: PMC2743774
64. Liu J, Xu W, Sun T; Wang F; **Puscheck EE**, Brigstock D, Wang Q, Davis R, Rappolee DA. Hyperosmolar stress induces global mRNA responses in placental trophoblast stem cells that emulate early post-implantation differentiation. *Placenta* 2009;30(1):66-73. PMID: 19036436 PMCID: PMC3343317
65. **Detti L, Yelian FD, Kruger ML, Diamond MP, **Puscheck EE**. Timing and Duration of Use of GnRH Antagonist Down-Regulation for IVF/ICI Cycles have No Impact on Oocyte Quality or Pregnancy Outcomes. *J Assist Reprod Genet* 2008;25(5):177-181. doi: 10.1007/s10815-008-9217-2 PMID: 18461435 PMCID: PMC2582065
66. **Detti L, Yelian FD, Kruger ML, Diamond MP, **Puscheck EE**. Endometrial thickness dynamics and morphologic characteristics during pituitary down-regulation with antagonists in assisted reproductive technology cycles. *J Ultrasound Med* 2008;27(11):1591-6. PMID: 18946098
67. Meeker JD, Rossano MG, Protas B, Padmanahban V, Diamond MP, **Puscheck E**, Daly D, Paneth N, Wirth JJ. Environmental exposure to metals and male reproductive hormones: Circulating testosterone is inversely associated with blood molybdenum. *Fertil Steril* 2008;93(1):130-140. PMID: 18990371 PMCID: PMC2823119
68. Meeker JD, Rossano MG, Protas B, Diamond MP, **Puscheck E**, Daly D, Paneth N, Wirth JJ. Cadmium, lead, and other metals in relation to semen quality: human evidence for molybdenum as a male reproductive toxicant. *Environ Health Perspect* 2008;116(11):1473-9. PMID: 19057699 PMCID: PMC2592266
69. Wirth JJ, Rosano MG, Potter R, **Puscheck EE**, Daly DC, Paneth N, Krawetz SA, Protas BM, Diamond MP: A Pilot Study Associating Urinary Concentrations of Phthalate Metabolites and Semen Quality. *Systems Biology and Reproductive Medicine* 2008;54(3):143-54. PMID: 18570050
70. Cataldo NA, Barnhart HX, Legro RS, Myers ER, Schlaff WD, Carr BR, Diamond MP, Carson SA, Steinkampf MP, Coutifaris C, McGovern PG, Gosman G, Nestler JE, Giudice LC; **Reproductive Medicine Network**. Extended-release metformin does not reduce the clomiphene citrate dose required to induce ovulation in polycystic ovary syndrome. *J Clin Endocrinol Metab* 2008;93(8):3124-7. (Collaborator: **Elizabeth**

Puscheck, M.D., M.S.)

71. Legro RS, Barnhart HX, Schlaff WD, Carr BR, Diamond MP, Carson SA, Steinkampf MP, Coutifaris C, McGovern PG, Cataldo NA, Gosman GG, Nestler JE, Giudice LC, Ewens KG, Spielman RS, Leppert PC, Myers ER; **Reproductive Medicine Network**. Ovulatory response to treatment of polycystic ovary syndrome is associated with a polymorphism in the STK11 gene. *J Clin Endocrinol Metab*. 2008 Mar; 93(3):792-800. Epub 2007 Nov 13. (Collaborator: **Elizabeth Puscheck, M.D., M.S.**)
72. **Awonuga AO, **Abdallah ME, **Puscheck EE**. Karyotyping twins in early pregnancy loss: a novel approach of obtaining specimens to avoid maternal contamination. *Fertil Steril*. 2008;90(5):2003.e11-2. PMID 18371959
73. Ramamoorthi RV, Rossano M, Paneth N, Gardiner J, Diamond MP, **Puscheck EE**, Daly D, Potter R, Wirth J. An application of multivariate ranks to assess effects from combining factors: metal exposures and semen analysis outcomes. *Stat Med* 2008;27(18):3503-14. PMID: 18314933
74. *Imudia AN, **Detti L, **Puscheck EE**, Yelian FD, Diamond MP. The prevalence of ureaplasma urealyticum, mycoplasma hominis, chlamydia trachomatis and neisseria gonorrhoeae infections, and the rubella status of patients undergoing an initial infertility evaluation. *J Assist Reprod Genet* 2008;25(1):43-6. doi: 10.1007/s10815-007-9192-z PMID: 18202910 PMCID: PMC2582106
75. Xie Y, Liu J, Proteasa S, Proteasa G, Zhong W, Wang Y, Wang F, **Puscheck EE**, Rappolee DA. Transient stress and stress enzyme responses have practical impacts on parameters of embryo development from IVF to directed differentiation of stem cells. *Mol Reprod Dev* 2008;75(4):689-97. PMID:17654540
76. **Detti L, **Puscheck EE**, Yelian FD, Diamond MP. Follow-up of women after a first episode of postmenopausal bleeding and endometrial thickness greater than 4 millimeters. *Obstet Gynecol* 2008;112(2 Pt 1):379; author reply 379-80. PMID: 18669739
77. **Detti L, Yelian FD, Kruger ML, Diamond MP, Rode A, Mitwally MF, **Puscheck EE**. Endometrial thickness is related to miscarriage rate, but not to the estradiol concentration, in cycles down-regulated with gonadotropin-releasing hormone antagonist. *Fertil Steril* 2008. 89(4):998-1001. PMID: 17678904
78. Espey E, Ogburn T, **Puscheck EE**. Perspectives on the impact of duty hour limitations on resident and student education in obstetrics and gynecology. *J Reprod Med*. 2007;52(5):345-8. PMID: 17583230
79. Zhong W, Xie Y, Wang Y, Lewis J, Trostinskala A, Wang F, **Puscheck EE**, Rappolee DA. Use of hyperosmolar stress to measure stress-activated protein kinase activation and function in human HTR cells and mouse trophoblast stem cells. *Reprod Sci* 2007;14; 534-7. PMID: 17959882
80. Xie Y, Wang F, **Puscheck EE**, Rappolee DA. Pipetting causes shear stress and elevation of phosphorylated stress-activated protein kinase in preimplantation embryos. *Mol*

Reprod Dev 2007;74(10):1287-94.

81. Xie Y, Zhong W, Trostinskaia A, Wang F, **Puscheck EE**, Rappolee DA. Using hyperosmolar stress to measure biologic and stress-activated protein kinase responses in preimplantation embryos. *Mol Hum Reprod* 2007;13(7):473-81. PMID: 17492777
82. **Detti L, **Mitwally MF, *Rode A, Yelian FD, Kruger M, Diamond MP, **Puscheck EE**. Serum human chorionic gonadotropin level after ovulation triggering is influenced by the patient's body mass index and the number of larger follicles. *Fertil Steril* 2007;88(1):152-5. PMID: 17418834
83. **Puscheck EE**, Jeyendran RS. The impact of male factor on recurrent pregnancy loss. *Curr Opin Obstet Gynecol* 2007;19(3):222-8. PMID: 17495637
84. Wirth JJ, Rossano MG, Daly DC, Paneth N, **Puscheck E**, Potter RC, Diamond MP. Ambient manganese exposure is negatively associated with human sperm motility and concentration. *Epidemiology* 2007;18(2):270-3. PMID: 17202870
85. Xie Y, Wang F, Zhong, W, **Puscheck EE**, Shen H, Rappolee DA. Shear stress induces preimplantation embryo death that is delayed by the zona pellucida and associated with stress-activated protein kinase-mediated apoptosis. *Biol Reprod*. 75(1): 44-55, 2006. PMID: 16571875
86. *Dewan S, **Puscheck EE**, Coulam C, Wilcox AJ, Jeyendran RS. Y-chromosome microdeletions and recurrent pregnancy loss. *Fertil Steril* 2006;85(2):441-5. PMID: 16595224
87. Zhong W, Wang QT, Sun T, Wang F, Liu J, Leach R, Johnson A, **Puscheck EE**, Rappolee DA. FGF ligand family mRNA expression profile for mouse preimplantation embryos, early gestation human placenta, and mouse trophoblast stem cells. *Mol Reprod Dev* 2006;73(5):540-50. PMID: 16470835
88. Xie Y, **Puscheck EE**, Rappolee DA. Effects of SAPK/JNK inhibitors on preimplantation mouse embryo development are influenced greatly by the amount of stress induced by the media. *Mol Hum Reprod*. 2006;12(4):217-224. PMID: 16574700
This paper was in the top 10% of all articles cited in 2006 for *Mol Hum Reprod*.
89. Xie Y, Sun T, Wang QT, Wang Y, Wang F, **Puscheck E**, Rappolee DA. Acquisition of essential somatic cell cycle regulatory protein expression and implied activity occurs at the second to third cell division in mouse preimplantation embryos. *FEBS Lett* 2005;579(2):398-408. PMID: 15642350
90. Wang Y, **Puscheck EE**, Lewis JJ, Trostinskaia AB, Wang F, Rappolee DA. Increases in phosphorylation of SAPK/JNK and p38MAPK correlates negatively with mouse embryo development after culture in different media. *Fertil Steril* 2005;83(1):1144-54. PMID: 15831287
91. Hicks PJ, Cox SM, Espey EL, Goepfert AR, Bienstock JL, Erickson SS, Hammoud MM, Katz NT, Krueger PM, Neutens JJ, Peskin E, **Puscheck EE**. To the point: medical education reviews—dealing with student difficulties in the clinical setting. *Am J Obstet*

92. Xie Y, Wang Y, Sun T, Wang F, Trostinskaia A, **Puscheck E**, and Rappolee DA. Six post-implantation lethal knockouts of genes for lipophilic MAPK pathway proteins are expressed in preimplantation mouse embryos and trophoblast stem cells. *Mol Reprod Dev* 2005;71(1):1-11. PMID: 15736129
93. Liu J, **Puscheck EE**, Wang F, Trostinskaia A, Barisic D, Maniere G, Wygle D, Rings EH, and Rappolee DA. Serine-threonine kinases and transcription factors active in signal transduction are detected at high levels of phosphorylation during mitosis in preimplantation embryos and trophoblast stem cells. *Reproduction*. 2004;128(5):643-54. PMID: 15509711
94. Wang Y, Wang F, Sun T, Trostinskaia A, Wygle D, **Puscheck E**, and Rappolee DA. Entire mitogen activated protein kinase (MAPK) pathway is present in preimplantation mouse embryos. *Devl Dyn* 2004;231(1):72-87. PMID: 15305288
95. Zhong W, Sun T, Wang YC, Xie Y, Johnson A, Leach R, **Puscheck EE**, Rappolee DA. SAPK/JNK1, 2, but not SAPK/JNK3 mRNA transcripts, are expressed in early gestation human placenta and mouse eggs, preimplantation embryos, and trophoblast stem cells. *Fertil Steril* 2004;82:1140-8. PMID: 15474087
96. *Laasch C and **Puscheck E**. Cumulative embryo score, not endometrial thickness, is best for pregnancy prediction in IVF. *J Assist Reprod Genet* 2004; 21(2):47-50. PMID: 15186021 PMCID: PMC3455443
97. Zhang X, Barnes R, Confino E, Milad M, **Puscheck E**, and Kazer R. Delay in embryo transfer to day 5 results in decreased initial serum b-hCG levels. *Fertil Steril* 2003;80(6):1359-63. PMID: 14667869
98. Chen C, Zhang X, Barnes R, Confino E, Milad M, **Puscheck E**, Kazer R. Relationships between peak serum estradiol levels and treatment outcome in *in vitro* fertilization cycles following embryo transfers on day 3 or day 5. *Fertil Steril* 2003;80(1):75-9. PMID: 12849804
I was involved with contributing patients and participated in this project in clinical discussion of the design and paper submission.
99. Erickson SS, Bachicha J, Bienstock J, Ciotti MC, Hartmann DM, Cox S, Metheny WP, **Puscheck EE**, Krueger PM, Ernest JM. The process of translating women's health care competencies into educational objectives. *Am J Obstet Gynecol* 2002;187(3):S25-27. PMID: 12235435
100. **Puscheck EE**, Pergament E, Patel Y, Dreschler J, Rappolee DA. Insulin receptor substrate-1 is expressed at high levels in all cells of the peri-implantation mouse embryo. *Mol Repro Dev* 1998;49(4):386-93. PMID: 9508089
101. **Puscheck EE**, Patel Y, Rappolee DA. Fibroblast growth factor receptor (FGFR)-4, but not FGFR-3 is expressed in the pregnant ovary. *Mol Cell Endocrinol* 1997;132(1-2):169-76. PMID: 9324058

102. **Puscheck EE**, Behzadian MA, McDonough PG. The first analysis of exon 1 (the transactivation domain) of the androgen receptor gene in infertile men with oligospermia or azospermia. *Fertil Steril* 1994;62(5):1035-8. PMID: 7926115
103. Pacifici R, Brown C, **Puscheck E**, Friedrich E, Slatopolsky E, Maggio D, McCrackern R, Avioli LV. Effect of surgical menopause and estrogen replacement on cytokine release from human blood mononuclear cells. *Proc Natl Acad Sci USA* 1991;88(12):5134-38. PMID: 2052592 PMCID: PMC51826
104. Wise TN, Mann LS, **Puscheck E**, Dove H, Kiernan K. Factors affecting anxiety and depression in psychiatric consultation patients. *Int J Psychiatry Med* 1985-1986;15(2): 177-84. PMID: 4055254
105. Wise TN, Mann LS, Dove HW, Pluchik E (**Puscheck E**), Kiernan KW. Patients' perceptions of psychiatric consultations. *Compr Psychiatry* 1985;26(6): 554-7.
(*my name is misspelled in the manuscript. I did not change it.*)
106. Garber ED, Eng C, **Puscheck EE**, Weil MK, and Ward S. Genetics of *Ustilago violacea* XII. Half-tetrad analysis and double selection. *Bot Gaz* 1982;143(4):525-529.

(Mentored *Resident and **Fellow where indicated).

CASE REPORTS:

1. Berman JM, **Puscheck EE**, Diamond MP. Full-term vaginal live birth after laparoscopic radiofrequency ablation of a large, symptomatic intramural fibroid: a case report. *J Reprod Med* 2012; 57(3-4):159-163. PMID 22523877.
2. Woodard TL, Awonuga AO, **Puscheck E**. Malignant transformation of endometrioma in a woman with a history of ovulation induction and in vitro fertilization. *Case Rep Med* 2012;2012:497362. PMID 23304157.
3. Awonuga AO, Schenone MH, Abdallah ME, Yelian FD, Diamond MP, **Puscheck EE**. Non-adherence to instructions to cancel a cycle in a patient overstimulated with gonadotropins in a planned intrauterine insemination cycle. *J Clin Ethics* 2009;20(3):235-358.
4. **Puscheck EE**. (Topic: Ovarian mature cystic teratoma.) *Imaging in Women's Health. The Female Patient: A Peer Reviewed Journal*. 28(4):59-60, 2003.
5. Londono J and **Puscheck EE**. (Topic: Uterine mass noted on saline infusion sonohysterogram.) *Imaging in Women's Health. The Female Patient: A Peer Reviewed Journal*. 28(2):71-72, 2003.
6. **Puscheck EE**. (Topic: Simple ovarian cyst in a postmenopausal woman.) *Imaging in Women's Health. The Female Patient: A Peer Reviewed Journal*. 28(1):51-52, 2003.

7. **Puscheck EE.** (Topic: A Sonohysterogram Demonstrating a Uterine Polyp.) Imaging in Women's Health. The Female Patient: A Peer Reviewed Journal. 27(11):50-51, 2002.
8. **Puscheck EE.** (Topic: Bicornuate Uterus with a Uterine Dehiscence.) Imaging in Women's Health. The Female Patient: A Peer Reviewed Journal. 27(10):39-40, 2002.

REVIEW ARTICLES:

1. **Puscheck EE,** Bolnick A, Awonuga A, Yang Y, Abdulhasan M, Li Q, Secor E, Loudon E, Huttermann M, Rappolee DA. Why AMPK agonists not known to be stressors may surprisingly contribute to miscarriage or hinder IVF/ART. J Assist Reprod Genet 2018. Jun 7. Doi: 10.1007/s10815-018-1213-6. [Epub ahead of print]. PMID: 29882092.
2. Thakur M, Feldman G, **Puscheck EE.** Primary ovarian insufficiency in classic galactosemia: current understanding and future research opportunities. J Assist Reprod Genet 2018;35(1):3-16. Epub 2017 Sep 20. PMID 28932969.
3. Yang Y, Abdulhasan M, Awonuga A, Bolnick A, **Puscheck EE,** Rappolee DA. Hypoxic stress forces adaptive and maladaptive placental stress responses in early pregnancy: birth defects Res. 2017 Oct 16;109(17):1330-1344. Doi:10.1002/bdr2.1149.PMID: 2910584.
4. Bolnick A, Awonuga AO, Yang Y, Abdulhasan M, Xie Y, Zhou S, **Puscheck EE,** Rappolee DA. Using stem cell oxygen physiology to optimize blastocyst culture while minimizing hypoxic stress. J Assist Reprod Genet 2017;34(10):1251-1259. Epub 2017 June 24. PMID 28647787.
5. Yang Y, Bolnick A, Shamir A, Abdulhasan M, Li Q, Parker GC, **Puscheck EE,** Rappolee DA. Blastocyst-derived stem cell populations under stress: impact of nutrition and metabolism on stem cell potency loss and miscarriage. Stem Cell Rev 2017 Apr 19 [Epub ahead of print] PMID 28425063
6. Jeelani R, **Puscheck EE.** Imaging and the infertility evaluation. Clin Obstet Gynecol 2017; 60(1):93-107. PMID: 28106643
7. Hoyos LR, Benacerraf B, **Puscheck EE.** Imaging in endometriosis and adenomyosis. Clin Obstet Gynecol 2017;60(1):27-37
8. Coding Committee of the American Society of Reproductive Medicine (**Puscheck EE** and other committee members). Correct coding for laboratory procedures during assisted reproductive technology cycles. Fertil Steril 2016;105(4):e5-8. PMID 26746136.

9. Jeelani R, **Puscheck EE**. Imaging and the infertility evaluation. Clin Obstet Gynecol 2017; 60(1):93-107. PMID: 28106643
10. Hoyos LR, Benacerraf B, **Puscheck EE**. Imaging in endometriosis and adenomyosis. Clin Obstet Gynecol 2017;60(1):27-37
11. Rappolee DA, Zhou S, **Puscheck EE**, Xie Y. Stress responses at the endometrial-placental interface regulate labyrinthine placental differentiation from trophoblast stem cells. Reproduction 2013;145(5):R139-55. PMID: 23463790
12. Rappolee DA, Xie Y, Slater JA, Zhou S, Puscheck EE. Toxic stress prioritizes and imbalances stem cell differentiation: Implications for new biomarkers and in vitro toxicology tests. Syst Biol Reprod Med 2012 Feb;58(1):33-40. PMID: 22239079
13. Xie Y, Awonuga AO, Zhou S. Puscheck EE, Rappolee DA. Interpreting the stress response of early mammalia²³. Rappolee DA, Xie Y, Slater JA, Shou S, and Puscheck EE. Toxic stress prioritizes and imbalances stem cell differentiation: implications for new biomarkers and in vitro toxicology tests. Syst Biol Reprod Med 2012;58(1):33-40. PMID: 22239079
14. Levine D, Brown DL, Andreotti RF, Benacerraf B, Benson CB, Brewster WR, Coleman B, DePriest P, Doubilet PM, Goldstein SR, Hamper UM, Hecht JL, Horrow M, Hur HC, Marnach M, Patel MD, Platt LD, Puscheck E, Smith-Bindman R. Management of asymptomatic ovarian and other adnexal cysts imaged at US: Society of Radiologists in Ultrasound Consensus Conference Statement. Radiology 2010;256(3):943-54. PMID: 20505067
15. Levine D, Brown DL, Andreotti RF, Benacerraf B, Benson CB, Brewster WR, Coleman B, DePriest P, Doubilet PM, Goldstein SR, Hamper UM, Hecht JL, Horrow M, Hur HC, Marnach M, Patel MD, Platt LD, Puscheck E, Smith-Bindman R. Management of Asymptomatic Ovarian and Other Adnexal Cysts Imaged on Ultrasound: Society of Radiologists in Ultrasound Consensus Conference Statement. Ultrasound Q 2010;26(3):121-31. PMID: 20823748
16. Rappolee DA, ****Awonuga AO**, Puscheck EE, Zhou S, Xie Y. Benzopyrene and experimental stressors cause compensatory differentiation in placental trophoblast stem cells. Syst Biol Reprod Med 2010;56(2):168-83. PMID: 20377314
17. Awonuga AO, Shavell VI, Imudia AN, Rotas M, Diamond MP, **Puscheck EE**. Pathogenesis of benign metastasizing leiomyoma. A review. Obstet Gynecol Survey 2010;65(3):189-95. PMID: 20214834
18. ****Awonuga AO**, Imudia AN, Shavell VI, Berman J, Diamond MP, Puscheck EE. Failed female sterilization: a review of pathogenesis and subsequent contraceptive options. J Reprod Med. 2009 Sept; 54(9):541-547. Review PMID: 19947030

19. **Puscheck EE.** Update on Pregnancy Loss. The Female Patient. 2008 (In P17. Awonuga A, Imudia AN, Shavell VI, Berman J, Diamond MP, **Puscheck EE.** Failed female sterilization: a review of pathogenesis and subsequent contraceptive options. J Reprod Med 2009;54(9):541-7. PMID: 19947030
20. **Puscheck EE** and Cohen L. Congenital malformations of the uterus: the role of ultrasound. Semin Reprod Med 2008;26(3):223-31. PMID: 18504697
21. Xie Y, Liu J, Proteasa S, Proteasa G, Zhong W, Wang Y, Wang F, **Puscheck EE,** Rappolee DA. Transient stress and stress enzyme responses have practical impacts on parameters of embryo development, from IVF to directed differentiation of stem cells. Mol Reprod Dev 2008;75(4):689-97. PMID: 21414586
This is a seminal review of the data collected to date on the impact of stress and stress enzymes on embryos and stem cells. It was peer reviewed
22. **Puscheck EE,** Jeyendran RS. The impact of male factor on recurrent pregnancy loss. Curr Opin Obstet Gynecol 2007;19(3):222-8. PMID 17495637.
23. Erickson SS, Metheny WP, Cox SM, Bienstock JL, Espey EL, Goepfert AR, Hammoud MM, Hartmann DM, Katz N, Krueger PM, Neutens JJ, Peskin E, **Puscheck EE.** A comprehensive review to establish priority learning objectives for medical students in the obstetrics and gynecology clerkship. Am J Obstet Gynecol. 2008;199(5):563.e1-9. PMID: 18533118
24. **Detti L, Diamond MP, **Puscheck EE.** Modern trends in the diagnosis and treatment of ovarian torsion. Postgraduate Obstet Gynecol 2007.
25. Bienstock JL, Katz NT, Cox SM, Hueppchen N, Erickson S, **Puscheck EE.** To the point: medical education reviews- providing feedback. Am J Obstet Gynecol 2007;196 (6):508-13. PMID: 17547874
26. **Detti L, Johnson SC, Diamond MP, **Puscheck EE.** First-trimester Doppler investigation of the uterine circulation. Am J Obstet Gynecol 2006;195(5):1210-8. PMID: 16615924
27. Hicks PJ, Cox SM, Espey EL, Goepfert AR, Bienstock JL, Erickson SS, Hammoud MM, Katz NT, Krueger PM, Neutens JJ, Peskin E, **Puscheck EE.** To the point: medical education reviews--dealing with student difficulties in the clinical setting. Am J Obstet Gynecol. 2005 Dec;193(6):1915-22. PMID: 16325592
28. Metheny WP, Espey EL, Bienstock J, Cox SM, Erickson SS, Goepfert AR, Hammoud MM, Hartmann DM, Krueger PM, Neutens JJ, **Puscheck E.** To the point: medical education reviews; evaluation in context: assessing learners, teachers and training programs. Am J Obstet Gynecol 2005;192(1):34-7. PMID: 15671999
29. Krueger PM, Neutens J, Bienstock J, Cox S, Erickson S, Goepfert A, Hammoud M, Hartmann D, **Puscheck E,** Metheny W. To the Point: reviews in medical

education and teaching techniques. Am J Obstet Gynecol 2004;191(2):408-11. PMID: 15343214

30. **Puscheck, E**, Cohen L. The diagnosis of congenital uterine anomalies: The role of 3-D ultrasonography. The Female Patient 2004;29:1-6.
31. **Puscheck EE**, Philip PA, and Jeyendran RS. Male fertility preservation and cancer treatment. Cancer Treat Rev 2004;30(2):173-80. PMID: 15023435
32. Christensen C and **Puscheck EE**. Adnexal Masses. Postgraduate Obstetrics and Gynecology. 22(18):1-8, 2002.
33. Metheny WP, Ernest JM, Bachicha J, Bienstock J, Ciotti MC, Cox S, Erickson S, Hartmann D, Krueger P, **Puscheck EE**. Have we met the educational challenges of obstetrics and gynecology? A response to Association of Professors of Gynecology and Obstetrics Initiative of 1986. Am J Obstet Gynecol. 2002;187:1405-12. PMID: 12439539
34. *Shahin S and **Puscheck EE**. Reproductive sequelae of cancer treatment. Obstet Gynecol Clin North Am 1998;25(2):423-33. PMID: 9629582
35. **Puscheck EE**, Behzadian MA, McDonough PG. Molecular Biology of Sexual Differentiation. Infertility and Reproductive Medicine Clinics of North America. 5(1): 69-79, 1994.

LETTERS TO THE EDITOR:

1. ** Detti L, **Puscheck EE**, Yelian FD, Diamond MP. Follow-up of Women After a First Episode of Postmenopausal Bleeding and Endometrial Thickness Greater Than 4 Millimeters. Obstet. Gynecol. 2008; 112:379.
2. **Puscheck E**, Jeyendran RS. Letter to the Editor: Reply of the Authors. Fertil Steril 2006;86(6):1800.
3. **Puscheck E**, Jeyendran RS. Letter to the Editor: Reply of the Authors. Fertil Steril 2006;86(6):1802-03.

BOOK AUTHORSHIP, EDITORSHIPS, AND CHAPTERS:

1. **Puscheck EE**. A Genetic Analysis of Ustilago Violacea and its Implications for a Genetic Study of Cryptococcus Neoformans. University of Chicago. (Masters Thesis) 1985.
2. **Puscheck, EE**. Gonadotropin Releasing Hormone (GnRH) Agonist Treatment Before Myomectomy. Bieber, Eric J. and Maclin, Victoria M.eds. Myomectomy. Blackwell Science: Malden, MA, 1998.
3. **Puscheck EE**. Complete Abortion. eMedicine Journal. Pradhan A, ed. 2(10) October

17, 2001. **Updated 2006 and 2008**

4. Singh MK, Patel J, and **Puscheck EE**. Chronic Pelvic Pain. eMedicine Journal. Plantz Scott ed. 2(7); July 11, 2001.
5. Ernest JM, Bachichia J, Bienstock J, Ciotti M, Erickson S, Hartmann D, Cox S, Metheny W, **Puscheck EE**, Krueger P. Basic Science Prerequisites to a Clerkship in Obstetrics and Gynecology. Pernoll ML and Stone ML (eds). Crofton: Association of Professors of Gynecology and Obstetrics, 2002.
6. **Puscheck E** and Jeyendran RS. Semen Analysis for Clinical Interpretation. Allahbadia G and Basuray R., eds. The Art and Science of Assisted Reproductive Techniques (ART). Jaypee Brothers Medical Publishers (P) Ltd: New Dehli, India, 2003.
7. Espey E, **Puscheck EE**, et al. The Obstetrics and Gynecology Clerkship: Your Guide to Success. Association of Professors of Gynecology and Obstetrics (APGO), Crofton, MD, 2006.
8. **Puscheck EE**. "Secondary Amenorrhea" *Clinical Gynecology*. [Edited By] Eric J. Bieber, Joseph S. Sanfilippo, Ira R. Horowitz. Philadelphia: Churchill Livingstone Elsevier, Chapter 57, pp. 815-829, 2006.
9. **120 Book Reviews. Puscheck E**. ARSM Fertility News Fall 1995-Spring 2008.
10. **Puscheck E** and Jeyendran RS. Clinical and Genetic Evaluation of the Infertile Male. Allahbadia G, DeWilde RL, Verhoeven HC, and Merchant R, eds. Contemporary Perspectives on ART. Elsevier Publishers (Release 2008).
11. **Puscheck EE**, Fleischer AC, Vasquey JM, Parsons AK. "Transvaginal Sonography in Gynecologic Infertility." *Sonography in Obstetrics and Gynecology: Principles & Practice*. 7th Edition. Eds: Fleischer AC, Manning FA, Philippe J, Romero R, Lee W, Toy EC. McGraw-Hill Professional, (Accepted July 2008).
12. *Woodard T and **Puscheck EE**. Infertility. eMedicine Journal. Pradhan A, ed. (invited chapter, 2008).
13. **Puscheck EE**. Early Pregnancy Loss. eMedicine Journal (Invited chapter. 2009)
14. Rappolee DA, Awonuga AO, Abdallah ME, Zhou S. **Puscheck EE**, Eie Y. Pluripotency and Differentiation as a Function of Stress in the Early Placental Trophoblast Stem Cells. In: Columbus F, ed. Human Placenta: Structure and Development, Circulation and Functions. Hauppauge, New York: Nova Press, 2009
15. Diamond MP, Singh M, **Puscheck EE**. Chronic Pelvic Pain and Adhesions. In: Vercellini P, ed. Chronic Pelvic Pain, Gynecology in Practice Series. Hoboken, New Jersey: Wiley-Blackwell, 2010 Chapter 7, pp. 71-76.
16. **Puscheck E**, Jeyendran RS. Semen Analysis for Clinical Interpretation. In: Merchant R, Chawla MM, Fakhri M, Allahbadia G, eds. 2nd Edition. The Art and Science of

17. **Puscheck EE**, Awonuga A, Yang O, Zhongliang YJ, Rappolee DA. Molecular Biology of the Stress Response in the Early Embryo and its Stem Cells. In: Leese H and Brison D, eds. Cell Signaling During Mammalian Early Embryo Development. Springer, 2014.
18. **Puscheck EE**. Secondary Amenorrhea. In: Eric J. Bieber, Joseph S. Sanfilippo, Ira R. Horowitz and Mahmood J. Shafi (eds). Clinical Gynecology. Second Edition. Published by Cambridge University Press. ©Cambridge University, 2014.
19. Moustafa HR, Rizk B, Brooks N, Steffler B, Baker SL, **Puscheck EE**. Cervical Pregnancy. In: Rizk B, ed. Ultrasound in Reproductive Medicine and Fertility 2014.
20. **Puscheck E**. US Imaging in congenital malformation of the uterus. In: Rizk B, Puscheck EE, eds. Ultrasonography in Gynecology. Cambridge University Press, Cambridge UK 2015.
21. **Puscheck EE**. US Imaging in Ovarian Masses: Benign or Malignant? In: Rizk B and Puscheck EE, eds. Ultrasonography in Gynecology. Cambridge University Press, Cambridge UK 2015, pp; 204-215.
22. **Puscheck EE**. US Assessment Prior to Infertility Treatment. In: Rizk B and Puscheck EE, eds. Ultrasonography in Gynecology. Cambridge University Press, Cambridge UK 2015, pp; 238-244.
23. **Puscheck EE**. US Imaging of Fibroids & Infertility. In: Rizk B and Puscheck EE, eds. Ultrasonography in Gynecology. Cambridge University Press, Cambridge UK 2015, pp:288-297.
24. Shavell V, **Puscheck EE**. Us Assessment Prior to Infertility Treatment. In: Rizk B, and Puscheck EE, eds. Ultrasonography in Gynecology. Cambridge University Press, New York, Chapter 25, pp, 238-244, 2015.
25. Woodard TL, Johnson S, **Puscheck EE**. Us Imaging of Fibroids & Infertility. In: Rizk B and Puscheck EE, eds. Ultrasonography in Gynecology. Cambridge University Press, New York, Chapter 31, pp. 288-297, 2015.
26. Awonuga OA, Johnson S, Singh M, **Puscheck EE**. Mullerian Anomaly and Ultrasonographic Diagnosis. In: Rizk B and Puscheck EE, eds. Ultrasonography in Gynecology. Cambridge University Press, New York. Chapter 6, pp.43-47, 2015.
27. Bolnick AD, Puscheck EE: Lab Techniques for Sperm Preparation: The Art and Science of Assisted Reproductive Technologies. Second Edition. (In Press)
28. Khan S, **Puscheck EE**. Ultrasound and Infertility. In: Jacques S. Abramowicz (ed). First Trimester Ultrasound: A Comprehensive Guide. Springer International Publishing, 2016.
29. Hoyos LR, Benacerraf B, **Puscheck, EE**. Imaging in Endometriosis and Adenomyosis.

Chapter 4, Clinical Obstetrics and Gynecology, volume 60, number 1, 27-37, 2017.
2017 Wolters Kluwer Health, Inc.

30. Jeelani R, **Puscheck EE**. Imaging and the Infertility Evaluation. Clin Obstet Gynecol. 2017;60(1):93-107. PMID: 28106643
31. Hoyos LR, Johnson S, **Puscheck EE**. Endometriosis and Imaging. Clin Obstet Gynecol. **2017**;60(3):503-516. PMID: 28742582
32. **Puscheck EE**. Imaging in Gynecology (ISSN: 0009-9201), guest editor. Clinical Obstetrics and Gynecology, Foreword volume 60, number 1, 1-2, 2017. 2017 Wolters Kluwer Health, Inc.
33. **Puscheck EE**. Chapter 37: Transvaginal sonography in gynecologic infertility. In Fleischer AC, Abramowicz JS, Goncalves LF, Manning FA, Monteagudo A, Toy EC, Timor-Tritsch I, eds. Fleischer's sonography in obstetrics and gynecology. 8th edition. 2018. ISBN-13 978-1259641367.
34. Chatzicharalampous C, Garvin SE, Korzeniewski SJ, **Puscheck E**. Are infertile patients at greater risk of cesarean delivery? Fertil Steril. 2018 Aug;110(3):403-404. doi: 10.1016/j.fertnstert.2018.06.026. PMID: 30098687 (Invited editorial)

CLINICAL PRACTICE GUIDELINES:

1. Coding Committee of the American Society for Reproductive Medicine. Correct Coding for laboratory procedures during assisted reproductive technology cycles. Fertil Steril 2016. 105(4): e5-8.
2. ASRM/AIUP. Pelvic Ultrasound Practice Parameters. 2015-2016
3. American Institute of Ultrasound in Medicine (AIUM); American College of Radiology (ACR); American College of Obstetricians and Gynecologists (ACOG); Society for Pediatric Radiology (SPR); Society of Radiologists in Ultrasound (SRU). AIUM practice guideline for the performance of ultrasound of the female pelvis. J Ultrasound Med 2014;33(6):1122-30. PMID 2486623
4. AIUM Practice Guidelines for the Performance of Pelvic Ultrasound. 2013.
5. AIUM Practice Guideline for the performance of pelvic ultrasound examinations. J Ultrasound Med 2010;29(1):166-72
6. AIUM Practice Guideline for ultrasonography in reproductive medicine. J Ultrasound Med 2009;28(1):128-37. (one of 28 collaborators).
7. Ultrasound Practice Guidelines for the Female Pelvis. I am an AIUM Representative to the American College of Radiology. Currently in discussion with American College of

- Radiology (ACR) for further revision and acceptance. Consensus reached in Sept 2008.
8. Ultrasound Guidelines for Reproductive Endocrine and Infertility. Revised and approved by the ASRM Board of Directors 12/2007.
 9. Ultrasound Guidelines for Pelvic Ultrasound. Revised and approved by American Institute of Ultrasound in Medicine (AIUM) Gynecologic Committee (Goldstein S, Blanchette M, Puscheck EE). 10/2007
 10. Ultrasound Guidelines for Reproductive Endocrine and Infertility. Written by the Society of Reproductive Endocrine and Infertility designated committee. (Members: Coutifaris C, **Puscheck EE**, and Van Voorhis, B). Approved. 08/2007.

EDUCATIONAL MATERIALS (including computer programs):

1. PBL Cases for Hirsutism, Endometriosis, Climacteric, and Menopause for 3rd year WSU medical students. 2002.
2. **Puscheck, EE.** Everything You Wanted To Know About Infertility, But Were Afraid To Ask. Video for Abbot Laboratories' personnel training. 1998.
3. **Puscheck EE**, et al. Nutrition Clinician. Multi-disciplinary Demonstration video. Institute for the Learning Sciences, Northwestern University. 1998.
4. **Puscheck EE**, et al. Nutrition Clinician Computer Interactive Program. Institute for the Learning Sciences, Northwestern University 1998.

EDITED ARTICLES:

1. **Puscheck, E., ed.** Images in Women's Health. The Female Patient: A Peer Reviewed Journal. 27 (10): 39-40.
2. **Puscheck, E., ed.** Images in Women's Health. The Female Patient: A Peer Reviewed Journal 27(11): 50-51.
3. **Puscheck, E., ed.** Images in Women's Health. The Female Patient: A Peer Reviewed Journal. 27 (12):53-54.
4. **Puscheck, E., ed.** Images in Women's Health. The Female Patient: A Peer Reviewed Journal. 28 (1): 51-52.
5. **Puscheck, E., ed.** Images in Women's Health. The Female Patient: A Peer Reviewed Journal. 28 (2):71-72.
6. **Puscheck, E., ed.** Images in Women's Health. The Female Patient: A Peer Reviewed Journal. 28 (3): 65-66.
7. **Puscheck, E., ed.** Images in Women's Health. The Female Patient: A Peer Reviewed

8. Ernest J, III, Bachicha J, Bienstock J, Ciotti M, Cox S. Erickson S, Hartmann D, Metheny W, **Puscheck E**, Kreuger P. 2001 APGO Undergraduate Medical Education Committee UMEC. Women's Health Care Competencies for Medical Students. Taking Steps to Include Sex and Gender Differences in the Curriculum. APGO Women's Healthcare Education Office (WHEO).

ARTICLES IN NON-REFEREED JOURNALS:

1. Puscheck EE. Medical student exam under anesthesia: Permission, permission, permission!!! Undergraduate Medical Education News, The APGO Reporter, XXXI, 3:12, 15 (2003).
2. **Puscheck EE**, Keith L, Sultana S, Zurawin R, and Levy J. Creation of an Internet Accessible, Medical Problem-based Learning Format by Medical Students using a Uniform Template and the Students' Perspectives of its General Usefulness, Learning Experience, and Teamwork. APGO Reporter Quarterly (2000).

MISCELLANEOUS:

1. *People (magazine)*. Infertility medications and the risk of multiples. May 2008
2. *Channel 4 and 7*. Osteoporosis Study using Forteo. 2006
3. *The Detroit News*: "Older mothers fight stigma", February 2005
4. *The Detroit News*: "Improve your chances of conceiving over age 30", July 2004
5. WJR The Medical Hour. Menopause and Hot Flashes, February 2002
6. MD TV Participant for 20-minute show on repeat series on Cable, May/June 2002
for Ovulation Prediction. April
7. Comcast "City Highlights" Menopause and the WHI Findings, October 2002
8. Channel 7. News Interview: New Salivary Luteinizing Hormone Detection 2002
9. Channel 7 Interview on "Menopause and Women's Health", November 2002
10. Channel 7 Interview on "Infertility and IVF at Hutzel Hospital", November 2002
11. WJR The Medical Hour. (Second show). Technology and Cancer, July 2001
12. Channel 7. News: Menopause Telethon. September 2001
13. Channel 4. News Interview: Ovarian Cancer Risk Assessment. June 2001
14. Channel 2. News Interview: Ovarian Cancer Risk Assessment. June 2001
15. Channel 2. News Interview: Ovarian Cancer Risk Assessment. June 2001
16. American Cable Channel Repeated Clip: Menopause and Ask Your Doctor 2001-2002

PUBLISHED ABSTRACTS:

1. Charalampos Chatzicharalampous, Sicily Gavin, Awoniyi Awonuga, **Elizabeth Puscheck**. Is a Saline Infused Sonogram Always Needed Prior to an in Vitro Fertilization Embryo Transfer? Accepted for oral presentation at 2018 AIUM Convention; March 24-28, 2018, Hilton Midtown, NY, USA

2. Yang Y, Dai J, **Puscheck EE**, Rappolee DA. Mitochondria inhibition at normoxia is sufficient to emulate hypoxia-stress induced potency loss and TGC differentiation in mTSC. 64th Annual Scientific Meeting for Society for Reproductive Investigation, March 15-18, 2017. Reproductive Sciences, 2017.
3. Bolnick AD, Abdulhasan MK, Kilburn B, Howard M, Shamir A, Dai J, **Puscheck EE**, Rappolee DA. 2-cell Embryos are more sensitive than blastocysts to AMPK-dependent suppression of anabolism and potency/stemness by commonly used fertility drugs, a diet supplement and stress. 64th Annual Scientific Meeting for Society for Reproductive Investigation, March 15-18, 2017. Reproductive Sciences, 2017.
4. Abdulhasan MK, Li Q, Dai J, Abu-Soud H, **Puscheck EE**, Rappolee DA. CoQ10 increases ATP and Oct4 while AMPK activity and oocyte death decrease during IVM. 64th Annual Scientific Meeting for Society for Reproductive Investigation, March 15-18, 2017. Reproductive Sciences, 2017.
5. Louden ED, **Puscheck EE**, LI Q, Yang Y, Drewlo S, Chen K, Rappolee DA. High throughput screen (HTS) using viable fluorescent ESC reporters of stressed-forced differentiation of the first lineage. 64th Annual Scientific Meeting for Society for Reproductive Investigation, March 15-18, 2017. Reproductive Sciences, 2017.
6. Thakur M, Awonuga AO, Kohan-Ghadr H, Hoyos LR, **Puscheck EE**, Joshi NJ. American Society for Reproductive Medicine, 71th Annual Meeting, Baltimore, Maryland. October 17-21; Fertility and Sterility, Sept.2016; Vol. 106, Issue 3. E140.
7. Yu, Yang, **Puscheck EE**, Rappolee, D. Hypoxic stress forces large, irreversible trophoblast stem cell differentiation. 49th Annual Meeting of the Society for Reproductive Study(SSR), July 16-20, 2016 San Diego, California
8. Rappolee D, **Puscheck EE**. Commonly used fertility drugs, a diet supplement and stress force AMPK-dependent block of stemness and development in cultured mammalian embryos. 49th Annual Meeting of the Society for Reproductive Study(SSR), July 16-20, 2016 San Diego, California
9. Hoyos L, Khan S, Bolnick J, Singh M, Puscheck E, **Awonuga A**. Impact of various doses of urinary hCG administered to trigger final oocyte maturation in controlled ovarian stimulation for IVF on the clinical pregnancy and life birth rates in obese women. American Society for Reproductive Medicine, 70th Annual Meeting, Honolulu, Hawaii. October 18-22, 2014. **Fertil Steril** 2014;102, No 35 (Supplement):e257, P-359.
10. Singh M, Diamond MP, Awonuga A, Shavell V, Bolnick J, **Puscheck EE**. An office-based observational study of 10 female infertility evaluations performed using sono hsg with the femvue saline-air device. **Fertil Steril** 2013;100(3)Sept:S384.
11. Bolnick JM, Sobecki-Rausch J, Awonuga A, **Puscheck E**, Singh M. Challenging the validity of AMH: Clinical pregnancy rates in patients with very low AMH levels. **Fertil Steril** 2013;100(3)Sept:S158.

12. Rappolee D, Jiang Z, Zhou S, Awonuga A, Xie Y, **Puscheck E**. Stress induces placental differentiation from stem cells that is different in seven ways compared with normal differentiation. *Placenta* 2013;34(9)Sept:A91.
13. **Puscheck EE**, Jiang Z, Xie YF, Zhou SC, Rappolee DA. SAPK activity is a better marker than AMPK activity for measuring stressful O₂ levels in stem cells. *Fertil Steril* 2013;100(3)Sept:S456.
14. Rappolee DA, Xie Y, Zhou S, Slater J, Jiang Z, Awonuga A, **Puscheck EE**. Four types of biomarkers report stress in mouse embryos and stem cells during early development around the time of implantation into the uterus. 46th Society for the Study of Reproduction (SSR) Annual Meeting, Montreal, Quebec, Canada, July 22-July 26, 2013.
15. Rappolee DA, Xie YF, Zhou SC, Huttemann M, Lee IS, **Puscheck EE**. Hypoxia induces maximal preparation for, but incomplete differentiation of stem cells that is associated with decreased mitochondrial function and increased expression of two potency factors. *Fertil Steril* 2011;96(3)Sept:S169.
16. Rappolee DA, Xie YF, Zhou SC, Slater J, **Puscheck EE**. Cellular and toxicological stress causes adaptive “PRIORITIZED” and “Compensatory” differentiation of embryonic and placental stem cells of the implanting blastocyst. *Fertil Steril* 2011;96(3)Sept:S171.
17. Al-Safi ZA, Shavell VI, Roberts RP, Singh M, Singh M, **Puscheck EE**, Diamond MP. First trimester cervical length and preterm delivery in pregnancies conceived through in vitro fertilization. *Fertil Steril* 2011;96(3)Sept:S13.
18. Shavell VI, Thakur M, Sawant A, Singh M, **Puscheck EE**, Diamond MP. Sonographically identified large uterine fibroids are associated with shortened cervical length during pregnancy. *Fertil Steril* 2011;96(3)Sept:S50.
19. Roth LM, Wittum-Hudson J, Lerner SA, **Puscheck E**, Delaney-Black V. Improving the execution of promotion and tenure processes: consultations between a school-level committee and departmental committees. Annual Meeting of the Association of American Medical Colleges group on Faculty Affairs, Seattle, WA. August, 2011.
20. Zakaria MA, Shabana R, **Puscheck EE**, Kmak DC. Conservative management of cervical ectopic pregnancy. A case report and evidence-based approach. *Journal of Minimally Invasive Gynecology* 2010;17(6)Nov-Dec:S144.
21. Thakur M, Kumar S, **Puscheck EE**, Schimp VL. Rapidly progressive synchronous uterine papillary serous carcinoma (UPSC) in both horns of a uterus didelphys. *Journal of Minimally Invasive Gynecology* 2010;17(6)Nov-Dec:S175.
22. **Puscheck E**, Berman JM, Lee BB. A comparison of transvaginal ultrasound and intra-abdominal ultrasound fibroid assessments. Global Congress of Minimally

Invasive Gynecology, 39th Annual Meeting of the American Association of Gynecologic Laparoscopists, November 8-12, 2010, Las Vegas, Nevada. J Minim Invasive Gynecol. 2010;17(6):S59.

23. Hobson DTG, Shavell VI, Diamond MP, **Puscheck EE**, Hutton LJ, Singh M. Complete septate uterus with an obstructed left hemivagina and ipsilateral renal agenesis. American Association of gynecologic Laparoscopists (AAGL). 39th Global Congress of Minimally Invasive Gynecology, Las Vegas, NV, November 2010. Journal of Minimally Invasive Gynecology 2010;17(6)Nov-Dec:S143.
24. Shavell VI, Thakur M, Sawant A, Singh M, **Puscheck EE**, Diamond MP. Large uterine fibroids are associated with delivery at an earlier gestational age and increased rate of Cesarean section. American Association of Gynecologic Laparoscopists (AAGL). 39th Global Congress of Minimally Invasive Gynecology, Las Vegas, NV, November 2010. Journal of Minimally Invasive Gynecology 2010;17(6)Nov-Dec:S51.
25. Awonuga AO, Imudia AN, Shavell VI, Singh M, **Puscheck EE**, Diamond MP. Relative predictive value of demographic variables, baseline FSH, estradiol, and antral follicle count in determining clinical pregnancy rates in ART. 66th Annual Meeting of the American Society for Reproductive Medicine (ASRM), Denver, CO, October 2010.
26. Awonuga AO, Imudia AN, Diamond MP, **Puscheck EE**, Singh M. Should body mass index influence the dose of hCG for ovulation induction after superovulation in IVF/ICSI cycles? 66th Annual Meeting of the American Society for Reproductive Medicine (ASRM), Denver, CO, October 2010.
27. Shavell VI, Thakur M, Sawant A, Singh M, **Puscheck EE**, Diamond MP. Large uterine fibroids are associated with delivery at an earlier gestational age and increased rate of Cesarean section. 66th Annual Meeting of the American Society for Reproductive Medicine (ASRM), Denver, CO, October 2010. Fertil Steril 2010;94(4)Sept:S221
28. Awonuga AO, Shavell VI, Imudia AN, Hobson DTG, Woodard TL, **Puscheck EE**. The value of delaying hCG administration to enable maturation of medium sized follicles in patients undergoing superovulation for IVF/ICSI. 66th Annual Meeting of the American Society for Reproductive Medicine (ASRM), Denver, CO, October 2010. Fertil Steril 2010;94(4)Sept:S29.
29. Zellmer K, Trepanier A, Angel N, **Puscheck E**. Comparison of methods: Family history questionnaire versus a 3-generation pedigree interview in an infertility setting. Fertil Steril 2009;92(3)Sept:S13-S14.
30. Xie Y, Abdallah M, Awonuga A, Slater J, **Puscheck E**, Rappolee D. Benzopyrene causes AMPK-dependent ID2 loss in placental trophoblast stem cells. Fertil Steril 2009;92(3)Sept:S136.
31. Abdallah M, Xie Y, **Puscheck EE**, Rappolee DA, Awonuga AO. Benzopyrene activates SAPK and induces HAND1 that favors differentiation of trophoblast stem

cells. Fertil Steril 2009;92(3)Sept:S136-S137.

32. Abdallah ME, Yelian F, Diamond MP, Puscheck EE. Correlation of processed total motile sperm count with intrauterine insemination success
33. Abdallah ME, Awonuga AO, **Puscheck EE**. Hysteroscopy directed biopsy of first trimester abortions for cytogenetic evaluation. Journal of Minimally Invasive Gynecology 2008;15(6)Nov-Dec:26S.
34. **Awonuga AO, Abdallah M, Detti L, Yelian FD, Diamond MP, **Puscheck EE**. The relationship between bioavailability of serum hCG level after ovulation triggering and oocyte recovery rate (ORR). ASRM Annual meeting 2008.
35. **Awonuga AO, *Jelsema J, **Abdallah M, Berman J, Diamond MP, **Puscheck EE**. The role of hysteroscopic biopsy in obtaining specimens for cytogenetic evaluation in missed abortion prior to suction dilatation and curettage. ASRM 2008.
36. **Awonuga AO, **Abdallah M, Xie Y, Slater J, Zhou S, Diamond MP, **Puscheck EE**, Rappolee D. Eomesodermin is upregulated by stress in trophoblast stem cells in a stress activated protein kinase (SAP)- dependent manner. ASRM 2008.
37. Slater J, **Puscheck EE**, Zhou S, Xie Y, Rappolee DA. Impact of stress and stress enzymes on early mammalian development. ASRM 2008. Fertil Steril 2008;90(Sept);S346.
38. **Abdallah ME, **Awonuga AO, *Imudia A, Diamond MP, Yelian F, **Puscheck EE**. Performing two inseminations rather than one in intrauterine insemination cycles may not improve on outcome. ASRM 2008.
39. **Abdallah ME, *Imudia A, **Awonuga AO, Diamond MP, **Puscheck EE**. Intrauterine insemination success may not be affected by unilateral or bilateral tubal patency. ASRM 2008.
40. **Abdallah ME, **Awonuga AO, Xie Y, **Puscheck EE**, Diamond MP, Rappolee DA. Stress rapidly down regulates inhibitor of differentiation 2 in trophoblast stem cells via AMP activated kinase-dependent pathway. ASRM 2008. Fertil Steril 2008;90(Sept);S356.
41. **Puscheck EE**, Gilmer S, Miller V, Yelian FD, Diamond MP: Webcam Videos: An improved method to identify fellow/resident candidates to invite for in person interviews? APGO/CREOG Annual Meeting March, 2008.
42. **Abdallah ME, **Ambler DR, *Victory R, Diamond MP, **Puscheck EE**, Berman JM. Surgical Management of Ectopic Pregnancy in the Morbidly Obese Patient Safety and Feasibility of Laparoscopy. Oral presentation at the 63rd Annual Meeting of the American Society for Reproductive Medicine, October 13-17, 2007, Washington, D.C. Fertil Steril. 2007;88:S109

43. Xie Y, **Puscheck EE**, Liu J, Rappolee DA. Two-cell embryos express distinct populations of Cdx2 that bind Oct4 or are phosphorylated on serine 60. *Fertil Steril* 2007;88(1)Sept:S311-S312.
44. **Puscheck EE**, Xie Y, Liu J, Proteasa S, Proteasa G, Rappolee DA. Impact of stress and stress enzymes on early mammalian development. *Fertil Steril* 2007;88(1)Sept:S307.
45. Asaad R, Suzuki Y, Khoder W, Stewart S, **Puscheck E**, Diamond MP. Does hormonal contraception affect the incidence of adenomyosis? *Fertil Steril* 2007;88(1)Sept:S256.
46. Wirth JJ, Rossano MG, Friderici KA, **Puscheck E**, Daly DC, Diamond MP. Preliminary analysis of polybrominated diphenyl ether exposure, semen quality and genetic polymorphisms. *Fertil Steril* 2007;88(1)Sept:S373-S374.
47. Protas BM, Rossano MG, Paneth N, Diamond MP, **Puscheck EE**, Daly DC, Potter RC, Wirth JJ: Risk of Poor Semen Parameters for Men Exposed to Polychlorinated Biphenyl Congeners. 6th Annual MI Epidemiology Conference, Towsley Center, U. of M. Medical Center, Ann Arbor, Michigan, April, 2007
48. *Abdallah ME, Victory R, Ambler DR, Berman JM, **Puscheck EE**, Diamond MP: Safety and Feasibility of Laparoscopy in the Management of Tubal Ectopic Pregnancy in Obese Women. 54th Annual Scientific Meeting of the Society for Gynecologic Investigation, Reno, Nevada, March, 2007.
49. *Asaad R, Khoder W, Ziyouni D, **Puscheck EE**, Diamond MP: Adenomyosis; Incidence, Co-incidence, and Risk Factors – A Preliminary Report. 54th Annual Scientific Meeting of the Society for Gynecologic Investigation, Reno, Nevada, March, 2007
50. Wirth JJ, Rossano MG, Liu G, Friderici K, Paneth N, **Puscheck EE**, Daly D, Potter R, Diamond MP: Preliminary Assessment of the Effects of Polymorphisms in Genes Involved in Contaminant Metabolism on Semen Quality. UCSF-CHE Summit Meeting, San Francisco, California, January, 2007.
51. **Victory R, *Abdallah ME, *Ambler DR, Diamond MP, **Puscheck EE**, Berman JM: Methotrexate Use in Patients with Relative and Absolute Contraindications: Time to Reconsider the Current Guidelines. 35th Annual Meeting of The American Association of Gynecologic Laparoscopists, Las Vegas, Nevada, November, 2006.
52. **Detti L, Rode A, Ambler DR, **Puscheck EE**, Yelian FD, Paine T, Diamond MP. Infertile Couples: Does Age Play A Role In Male Infertility? 62nd Annual Meeting of the American Society for Reproductive Medicine, New Orleans, Louisiana, October 2006.
53. **Mitwally MF, **Puscheck EE**, Wirth JJ, Rossano M, Diamond MP. Changes In Semen Parameters Between Two Successive Semen Analyses: results of a Prospective Cohort Study. 62nd Annual Meeting of the American Society for Reproductive

Medicine, New Orleans, Louisiana, October 2006. Poster presentation- P-625. Fertil Steril 2006;86(3)Sept:S365.

54. **Ambler DR, *Victory R, **Abdallah ME, Diamond MP, **Puscheck EE**, Berman JM. Should ruptured tubal ectopic pregnancies be managed laparoscopically? 62nd Annual Meeting of the American Society for Reproductive Medicine, October 21-25, 2006, New Orleans, LA. Fertil Steril 2006;86(3):S306.
55. **Detti L, *Ambler DR, Yelian FD, Kruger M, Diamond MP, **Puscheck EE**. Oocyte Quality and Implantation Outcomes are Related to the Length of Stimulation and of Antagonist Use in Patients Using GnRH-antagonist for ART cycles. 62nd Annual Meeting of the American Society for Reproductive Medicine, New Orleans, Louisiana, October 2006.
56. *Abdallah M, **Victory R, *Ambler D, Diamond MP, **Puscheck EE**, Berman JM. Reducing Unnecessary Surgical Interventions: Risk Factors for Laparoscopic Conversion to Laparotomy in the Management of Ectopic Pregnancies. 62nd Annual Meeting of the American Society for Reproductive Medicine, New Orleans, Louisiana, October 2006. Fertil Steril 2006;86(3):S304.
57. **Detti L, Yelian FD, **Puscheck EE**, Paine T, Kruger M, Ginsburg KA, Diamond MP. Inpatient Variation of Semen Parameters in a Five-year Study. 62nd Annual Meeting of the American Society for Reproductive Medicine, New Orleans, Louisiana, October 2006. Poster presentation P-634. Fertil Steril 2006;86(3)Sept:S368.
58. **Detti L, *Rode A, **Puscheck EE**, Yelian FD, Paine T, Diamond MP. The Association of Human Sperm Motility with Morphology. 62nd Annual Meeting of the American Society for Reproductive Medicine, New Orleans, Louisiana, October 2006. Poster presentation P-636. Fertil Steril 2006;86(3)Sept:S369.
59. **Detti L, **Puscheck EE**, Yelian FD, Pain T, Diamond MP. Sperm Motility and Morphology are not Influenced by the Presence of Leucocytosis. 62nd Annual Meeting of the American Society for Reproductive Medicine, New Orleans, Louisiana, October 2006. Poster presentation P-637. Fertil Steril 2006;86(3)Sept:S369.
60. Puscheck E, Liu J, Xu W, Wang Q, Davis R, Rappolee D. An array approach to understanding cues for the implanting embryo. Stress-induced time-dependent decision-making in trophoblast stem cells. Poster presentation P-557. Fertil Steril 2006;86(3)Sept:S341.
61. Detti L, Paine T, Yelian FD, **Puscheck EE**, Kruger M, Diamond MP. Seasonal variation of semen parameters in a five-year study. Poster presentation P-639. Fertil Steril 2006;86(3)Sept:S370.
62. Detti L, Rode A, Ambler DR, **Puscheck EE**, Yelian FD, Diamond MP. Infertile Couples: Does age play a role in male infertility? Poster presentation P-638. Fertil Steril 2006;86(3)Sept:S370.
63. 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.

64. **Puscheck EE**: IVF culture and handling techniques, as well as diverse stimuli such as shear stress and environmental toxins cause transient stress in embryos that can be measured and managed with antibodies and inhibitors to activated SAPK/JNK. Down Under Embryo Workshop, Australia, August 2006. Oral Presentation.
65. Wirth JJ, Rossano M, Calafat AM, Potter R, **Puscheck E**, Daly D, Paneth N, Krawetz S, Diamond MP. Pilot Study on Phthalate Metabolite Concentrations in Great Lakes Fish Consumers and their Semen Quality. Second North American Congress of Epidemiology, Seattle, Washington, June, 2006
66. **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.
67. **Mitwally MF, **Puscheck EE**, Yelian FD, Diamond MP: Longer duration of controlled ovarian hyperstimulation may be associated with less favorable outcome of IVF-ET, Irrespective to type of pituitary suppression. 53rd Annual Scientific Meeting of the Society for Gynecologic Investigation, Toronto, Canada, March 2006.
68. **Victory R, *Sampson J, Ginsburg KA, Diamond MP, **Puscheck EE**: Administration of Cetrorelix Post Oocyte Retrieval may Mitigate or Prevent Symptoms of Ovarian Hyperstimulation Syndrome. 53rd Annual Scientific Meeting of the Society for Gynecologic Investigation, Toronto, Canada, March 2006.
69. **Mitwally MF, *Fahmy LM, Yelian FD, Diamond MP, **Puscheck EE**: Levels of hCG on the Day Following Ovulation Triggering has Predicting the Outcome of IVF-ET. 53rd Annual Scientific Meeting of the Society for Gynecologic Investigation, Toronto, Canada, March 2006
70. *Victory R, **Ambler D, **Abdallah M, **Puscheck EE**, Berman JM: Predictive factors in the management of ectopic pregnancy: preliminary results from the Detroit Medical Center ectopic database. Global Congress of Minimally Invasive Gynecology, 34th Annual Meeting of the American Association of Gynecologic Laparoscopists, Chicago, Illinois, November 9-12 2005. J Minim Invasive Gynecol. 2005;12(5):P35-36.
71. Wirth J, Potter R, Calafat AM, Rossano M, **Puscheck E**, Ramamoorthi RV, Diamond 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.
72. **Detti L, **Mitwally MF, *Rode A, **Puscheck EE**, Yelian FD, Diamond MP. Serum hCG level after ovulation triggering is influenced by the dose administered and the patient's BMI. American Society for Reproductive Medicine 61st Annual

Meeting, Montreal, Canada, October 2005. Poster presentation.

73. **Gago LA, *Torres M, Diamond MP, **Puscheck EE**; Imaging American Society of Reproductive Medicine Special Interest Group. Prognosis of subchorionic hemorrhage in early pregnancy. American Society for Reproductive Medicine 61st Annual Meeting, Montreal, Canada, October 2005. Oral presentation.
74. 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 61st Annual Meeting, Montreal, Canada, October 2005. Oral presentation.
75. **Detti L, **Mitwally MF, *Rode A, **Puscheck EE**, Yelian FD, Diamond MP. Endometrial thickness on the day of hCG administration is related to miscarriage rate, but not to the estradiol peak. American Society for Reproductive Medicine 61st Annual Meeting, Montreal, Canada, October 2005. Poster presentation.
76. **Gago LA, *Torres M, Diamond MP, **Puscheck EE**: Prognosis of subchorionic hemorrhage in early pregnancy. 61st Annual Meeting of the American Society for Reproductive Medicine, Montreal, Quebec, Canada, October 2005.
77. Xie Y, **Puscheck EE**, Zhong H, Shen H, Rappolee D: Chronic shear stress is lethal to preimplantation mouse embryos acting through SAPK/JNK and c-Fos. American Society for Reproductive Medicine 61st Annual Meeting, Montreal, Canada, October 2005. Poster presentation.
78. Liu J, **Puscheck EE**, Wang Y, Rappolee D: Combinational requirements for PI-3-Kinase, ras, and MAPK pathways in mediating early placental proliferation. American Society for Reproductive Medicine 61st Annual Meeting, Montreal, Canada, October 2005. Poster presentation.
79. Zhong W, **Puscheck EE**, Liu J, Wang F, Rappolee D: Elevated stress and SAPK/JNK phospho mediate cues at implantation for generating the maternal recognition of pregnancy signal. American Society for Reproductive Medicine 61st Annual Meeting, Montreal, Canada, October 2005. Poster presentation.
80. **Puscheck EE**, Potter R, Ramamoorthi RV, McQueeney J, Diamond MP, Paneth P, Wirth JJ. Life Style Factors: Affects on Semen Parameters in Infertile Couples. The 52nd Annual Meeting of the Society of Gynecological Investigation, March 23-26, 2005, Los Angeles, California (Poster #366). J SGI 2005;12(2):S203A
81. **Gago LA, *Thomas O, Yurewicz E, Joshi N, Paine T, Diamond MP, **Puscheck EE**. The effects of Doxycycline on semen parameters. American Society for Reproductive Medicine 60th Annual Meeting, Philadelphia, PA, October 2004. Submitted for poster presentation.
82. Wirth J, Potter R, **Puscheck E**, McQueeney J, Paneth N, Diamond MP. Study design to assess effects of organochlorines on male infertility. 17th Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research (SPER), Salt Lake City,

Utah, June 2004. Poster presentation

83. **Gago LA, *Alfieri Ch, Diamond MP, **Puscheck EE**. Usefulness of Saline Infusion Sonography (SIS) in Infertility Evaluations. The Society for Gynecologic Investigation 51st Annual Scientific Meeting. Houston, TX, March 24-27, 2004. Poster presentation.
84. **Gago LA, *Alfieri C, Diamond MP, **Puscheck EE**. Usefulness of saline infusion sonography (SIS) in infertility evaluations. The Society for Gynecologic Investigation 51st Annual Scientific Meeting, Houston, TX, March 2004. Poster presentation.
85. Neutens J and **Puscheck EE**. Workshop: A Blend of Core Identity, Core Values, and Core Curriculum. APGO Faculty Development Meeting. January 10-13, 2004. Sarasota, FL.
86. **Gago LA, Yelian F, **Chauhan S, Diamond M, Leach R, and **Puscheck EE**. Ultrasound Guided Intra-Uterine Insemination as a Teaching Tool of Optimal Embryo Transfer Techniques. 2003 ASRM Annual Meeting. San Antonio, TX. Fertil Steril 80(3):S270 (P-456), 2003.
87. **Puscheck EE**, Wang Y, Wang F, Lewis JJ, Wygle D, and Rappolee D. Phosphorylation and Nuclear Translocation of SAPK/JNK and p38MAPK Correlate Negatively with Mouse Embryo Development After Culture. 2003 ASRM Meeting. San Antonio, TX. Fertil Steril 80(3):S108 (O-281), 2003.
88. **Puscheck EE**, Wang Y, Sun T, Barisi D, Trostinskaya A, and Rappolee D. MAPK Pathway is Downstream of Embryonic and Maternal Signaling and Is Important in Mediating Mitogenic and Morphogenetic Signals in Preimplantation Mouse Embryos. 2003 ASRM Meeting. San Antonio, TX. Fertil Steril 80(3):S262 (P-428), 2003.
89. **Puscheck EE**, *Laasch C, Ball D, and Dozortsev D. Analysis of Dysmorphic Oocytes Versus Phenotypically Normal Oocytes in IVF/ICSI Cases. 2002 ASRM Annual Meeting. Seattle, Washington. Fertil Steril 78(Supplement 1): S257 (P-425), 2002.
90. **Puscheck EE**, Wang F, Sun T, Barisic D, Trostinskaya A, Rappolee D. The Entire Mitogen Activated Protein Kinase (MAPK) Pathway is Present in Preimplantation Mouse Embryos and Trophoblast Stem Cells (TSC). 2002 ASRM Annual Meeting. Seattle, Washington. Fertil Steril 78(3) (Supplement 1): S166 (P-150), 2002.
91. **Puscheck EE**, Wang Y, Wang F, Barisic D, Trostinskaya A, Rappolee D. The Protein Products of Fifteen Null Post-implantation Lethal Genes are Present in Preimplantation Mouse Embryos, Trophoblast Cells, and in Cultured Trophoblast Cells. 2002 ASRM Annual Meeting. Seattle, Washington. Fertil Steril 78(3): S274 (P-475), 2002.
92. **Puscheck EE**, Wang Y, Wygle D, Barisic D, Trostinskaya, and Rappolee D. Serine/Threonine Kinases in the Three Related Mitogen Activated Protein Kinase (MAPK) Families Have Novel Cytoplasmic-nuclear Dynamics in Preimplantation Mouse Embryos and Trophoblast Stem Cells. 2002 ASRM Annual Meeting. Seattle, Washington. Fertil Steril. 78(3): S165 (P-147), 2002.

93. **First Place Prize Poster at ASRM Annual Meeting 2002.**
94. **Puscheck EE**, Wang Y, Wang F, Wygle D, and Rappolee D. Lethal Stress to Cultured Preimplantation Mouse Embryos can be made Non-lethal. 2002 ASRM Annual Meeting. Seattle, Washington. Fertil Steril 78(3):S269-270 (P-462), 2002.
95. ****McGinnis K, Puscheck EE**, Diamond MP, Sacco A, and Dozortsev D. Determination of Mitochondrial Mass and Function Prior to Preimplantation Genetic Diagnosis in Preimplantation Mouse and Human Embryos. 4th International Pre-implantation Genetics Meeting. Cypress. April 10-13, 2002.
96. Milad MP, Zhang J, Meyer E, Pergament E, Confino E, **Puscheck EE**, Kazer RR. Impact of Preimplantation Genetic Diagnosis (PGD) Screening for Common Aneuploidies on IVF Pregnancy Rates. 2001 ASRM Annual Meeting. Orlando, Florida. Fertil Steril. 76(3): S136 (P-70), 2001.
97. Zhang X, Confino E, Milad M, **Puscheck EE**, and Kazer R. Early Beta-hCG Levels are Lower in Pregnancies Following Blastocyst Transfers than in Pregnancies Following Day-3 Embryo Transfers. 2000 ASRM Meeting, San Diego, California. Fertil Steril. 74(3S): S44 (O-115), 2000.
98. Confino E, Milad M, **Puscheck EE**, Zhang X, and Kazer R. Pregnancies After Transferring Morulae on Day 5 Post *In Vitro* Fertilization. 2000 ASRM Meeting. San Diego, California. Fertil Steril. 74(3S): S225 (P-416), 2000.
99. **Puscheck EE**, Keith L, Sultana S, Zurawin R, and Levy J. Creation of an Internet Accessible, Medical Problem-based Learning Format by Medical Students Using a Uniform Template and the Students' Perspectives of its General Usefulness, Learning Experience, and Teamwork. CREOG/APGO Annual Meeting: New Orleans, LA. March 1-4, 2000. Poster presentation.
100. **Puscheck EE**. The Design, Implementation, and Assessment of a Mid-clerkship Evaluation Program. 1999 CREOG and APGO Annual Meeting, February 21-24, 1999, San Diego, California, APGO/Solvay Educational Scholar Presentation. Poster presentation.
101. Confino E, Kazer RR, Milad MF, **Puscheck EE**, and Zhang XJ. Coaxial Embryo Transfer Catheter: A New Catheter Set for Replacing Embryos Through Difficult-to-pass Cervix. 1999 ASRM meeting, Toronto, Canada. Fertil Steril. 72(3): S163 (P-230), 1999.
102. Zhang X, Confino E, Milad M, **Puscheck EE**, Summers R, and Kazer R. Comparison of Pregnancy Rates Between Two Types of Catheters for Uterine Transfer of In Vitro Fertilized Embryos. 1998 ASRM meeting, San Francisco, California.
103. **Puscheck EE**, Van Horn L, and Jona M. Novel Interactive Case-based Computer Learning System to Assist Instruction in Maternal Nutrition. 1998 CREOG and APGO Annual Meeting. March 4-7, 1998. Orlando Florida. Oral presentation.
104. ***Nuthalapathy FS, Altman M, and Puscheck EE**. Interactive Electronic Problem

Based Learning. 1998 CREOG and APGO Annual Meeting, March 4-7, 1998. Orlando, Florida. Poster presentation.

105. **Puscheck EE** and Keith LG. "User-friendly" Hand-outs Assist in Orientation of Medical Students to Obstetrics and Gynecology. Association of Professor in Gynecology and Obstetrics/ Chair in Residency Education of Obstetrics and Gynecology (APGO/CREOG), 1997. Poster presentation.
106. **Puscheck EE**, Patel Y, Rappolee DA. The Expression of FGF Ligand and Receptor mRNA in Mouse Ovaries. Great Lakes Mammalian Developmental Biology Conference, Toronto, Canada 1994. Poster presentation.
107. **Puscheck EE**, Patel Y, Rappolee DA: The Expression of FGFR-3 and FGFR-4 mRNA in Mouse Ovarian Follicles. American Fertility Society, San Antonio, TX 1994. Poster presentation.
108. **Puscheck EE**, Behzadian MA, McDonough PG. The First Analysis of Exon 1 (the Transactivation Domain) of the Androgen Receptor Gene in Infertile Men with Oligo or Azoospermia. American Fertility Society, New Orleans, LA 1993. Poster presentation.