

Erika M. Munch, M.D., FACOG

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San Antonio, TX 78258
(210) 370-3800

WORK EXPERIENCE

- ◆ **Texas Fertility Center** 2016 –
San Antonio, TX

EDUCATION

- ◆ **Fellowship** 7/2013 – 6/2016
Univ. of Iowa Hospitals & Clinics, Reproductive Endocrinology & Infertility
Iowa City, IA
- ◆ **Residency** 6/ 2009 – 6/2013
Baylor College of Medicine, Obstetrics & Gynecology
Houston, TX
- ◆ **Certificate** 6/ 2008 – 5/ 2009
Univ. of Texas School of Public Health
Houston, TX
- ◆ **Doctorate of Medicine (MD)** 7/2004 – 5/2008
Baylor College of Medicine, graduated *with honor*
Houston, TX
- ◆ **Bachelor of Science (BS)** 8/2000 – 12/2003
Southwestern University, graduated *summa cum laude*
Major: Biology Minors: Chemistry, German
Georgetown, TX
- ◆ **High School** 8/1996 – 5/2000
Westwood High School, graduated *rank 5/481*
Austin, TX

BOARD EXAMINATIONS

American Board of Obstetrics and Gynecology

OB/GYN Certification: Active (11/7/2014)

USMLE:

Step 1: 250 (99) Step 2 CK: 264 (99) Step 2 CS: Pass Step 3: 234 (99)

AWARDS & HONORS

- ◆ Primary investigator, The Foundation for Embryonic Competence Grant (\$25,990) 2015 - current

- ◆ Travel Grant, Vivere Scientific Advisory Board for ASRM Annual Mtng (\$1,500) 2015
- ◆ Co-investigator, Iowa Centers for Enterprise GAP Fund Program Award (\$75,000) 2013
- ◆ Grant for Mentored Resident Research, Baylor College of Medicine (\$1,000) 2012
- ◆ Alpha Omega Alpha 2008
- ◆ Gold Humanism Honor Society 2007
- ◆ Phi Beta Kappa 2004

PROFESSIONAL ACTIVITIES

◆ Medical Education Activities

- Facilitator, “Clinical and Professional Skills—Professional Communication Skills” 2015
for first year medical students
- Presenter, “Infertility” 2015
for third year medical students on OBGYN core rotation
- Guest Speaker, “In Vitro Fertilization” 2014
for undergraduate biology student seminar
- Elected Resident Representative , GME Committee 2011 – 2013

◆ Invited Speaking Engagements

- “Differentially Expressed Genes in Preimplantation Human Embryos” 2016
University of Iowa Departmental Grand Rounds
- “Exploring the Ovarian Follicular Microenvironment in Obesity” 2015
University of Iowa Departmental Grand Rounds
- “The Negative Effects of Obesity on Fertility” 2014
University of Iowa Departmental Grand Rounds

◆ Professional Memberships

- Society for Reproductive Endocrinology and Infertility, Associate 2014 – current
- Pacific Coast Reproductive Society 2014 – current
- American Society for Reproductive Medicine 2013 – current
- Fellow, American Congress of Obstetricians and Gynecologists 2009 – current

RESEARCH INTERESTS

Obesity and fertility, single embryo transfer, preimplantation embryologic development

PUBLICATIONS

Munch EM, Sparks AE, Gonzalez Bosquet J, Christenson LK, Devor EJ, Van Voorhis BJ. Differentially Expressed Genes in Preimplantation Human Embryos: Potential Candidate Genes for Blastocyst Formation and Implantation. *J Assist Reprod Genet.* 2016; May 30 (ePub ahead of print).

Mancuso A, Boulet SL, Duran EH, **Munch EM**, Kissin DM, Van Voorhis BJ. Elective Single Embryo Transfer in Women Under Age 38 Reduces Multiple Birth Rates, but Not Live Birth Rates in United States Fertility Clinics. *Fertil Steril.* 2016; *in press*

Munch EM, Sparks AE, Duran HE, Van Voorhis BJ. Poor Laboratory Air Quality Negatively Affects Early Embryo Development. *J Assist Reprod Genet.* 2015;32(7):1009-17.

Munch EM, Harris RA, Mohammad M, et al. Transcriptome Profiling of MicroRNA by Next-Gen Deep Sequencing Reveals Known and Novel miRNA Species in the Lipid Fraction of Human Breast Milk. *PLoS One.* 2013;8(2): e50564.

Hsieh MH, Madden-Fuentes RJ, Bayne A, **Munch E**, et al. Cross-sectional Evaluation of Parental Decision Making Factors for Vesicoureteral Reflux Management in Children. *J Urol*. 2010; 184(4 Suppl):1589-93.

Munch EM, Cisek LJ Jr, Roth DR. Magnetic Resonance Imaging for Prenatal Diagnosis of Multisystem Disease: Megacystis Microcolon Intestinal Hypoperistalsis Syndrome. *Urology*. 2009; 74: 592–594.

(in progress)

Munch EM, Summers KM, Ryan GL, Kapfhamer JD, Collura BL, Adamson GD. Knowledge acquisition in the digital age: which IVF information channels are associated with choosing elective single embryo transfer? Submitted

BOOK CHAPTERS

Munch EM, Shah DK. “Fertility Treatment Outcomes in Obese Women” In Jungheim E (ed) *Obesity and Fertility: A Practical Guide for Clinicians*. 2015. Springer, New York, pp. 89-102.

SELECTED ABSTRACTS AND POSTERS PRESENTATIONS

Munch EM, Summers K, Ryan GL, Kapfhamer J, Collura B, Adamson GD. Physician Influence and IVF: How Much Do Patients Rely on Physician Opinion When Choosing Elective Single Embryo Transfer (eSET)? Poster presentation, the American Society for Reproductive Medicine Annual Meeting, October 2015, Baltimore, MD.

Munch EM, Summers K, Ryan GL, Kapfhamer J, Collura B, Adamson GD. Knowledge Acquisition in the Digital Age: Which Information Channels are Associated with Choosing eSET? Poster presentation, the American Society for Reproductive Medicine Annual Meeting, October 2015, Baltimore, MD.

Munch EM, Summers K, Ryan GL, Kapfhamer J, Collura B, Adamson GD. Demographic Characteristics Associated with Elective Single Embryo Transfer (eSET) In IVF: Who Chooses Just One? Poster presentation, the American Society for Reproductive Medicine Annual Meeting, October 2015, Baltimore, MD.

Kapfhamer J, Summers K, Ryan G, **Munch E**, Collura B, Adamson G. Then and Now: Are Past IVF Experiences Associated With Current Preferences Regarding Elective Single Embryo Transfer? Poster presentation, the American Society for Reproductive Medicine Annual Meeting, October 2015, Baltimore, MD.

Munch EM, Gonzalez Bosquet J, Sparks AE, Devor EJ, Christenson LK, Van Voorhis BJ. Differential Expression of Embryonic RNAs in Human Preimplantation Embryos with Overrepresentation in Amoebiasis, Cancer Pathways. Poster presentation, the Society for Reproductive Investigation Annual Meeting, March 2015, San Francisco, CA.

Munch EM, Cookingham LM, Sparks AE, Santillan DA, Devor EJ, Van Voorhis BJ. Differential MicroRNA Expression in Follicular Fluid of Lean and Obese Women. Poster presentation, the Society for Reproductive Investigation Annual Meeting, March 2015, San Francisco, CA.

Munch EM, Sparks AE, Van Voorhis BJ, et al. Poor Laboratory Air Quality and Its Impact on Early Embryo Development. Poster presentation, the Pacific Coast Reproductive Society, March 2014, Indian Wells, CA. 2nd place poster award.

Munch EM, Liu Q, Gibbons WE et al. Non-synonymous Single Nucleotide Polymorphism in *MCM8* Decreased in a Cohort of Premature Ovarian Failure Patients. Poster presentation, the American Society for Reproductive Medicine Annual Meeting, October 2012, San Diego, CA.

Munch EM, Balasa A, Gibbons WE, et al. Frameshift Single Nucleotide Polymorphism in *BRSK1* is Not Associated with Premature Ovarian Failure in a Cohort of 60 Patients. Poster presentation, the Society for Gynecologic Investigation Annual Meeting, March 2012, San Diego, CA.