

**Heidi K. Vanden Brink**  
*Assistant Professor*  
*Department of Nutrition*  
*Texas A&M University, College Station*

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**POSITIONS & APPOINTMENTS**

2022 – date     Assistant Professor, Department of Nutrition, Texas A&M University, College Station, Texas

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**EDUCATION & TRAINING**

2019-2022     Postdoctoral Associate Cornell University, Ithaca, NY  
Visiting Researcher, Children’s Mercy Hospitals, Kansas City, MO  
*Novel biomarkers and mechanisms of aberrant reproductive maturation in the post-menarcheal years*  
Co-Mentors: Dr. Marla Lujan, Cornell University & Dr. Tania Burgert, Children’s Mercy Hospitals

2014- 2019     PhD, Human Nutrition, Division of Nutritional Sciences, Cornell University  
*Ultrasonographic Imaging of Ovarian Morphology for the Diagnosis and Evaluation of Anovulatory Conditions Across the Adiposity Spectrum in Women and Adolescents*  
Mentor: Dr. Marla Lujan

2009 - 2012     MSc, Health Science, Department of Obstetrics, Gynecology, and Reproductive Sciences, University of Saskatchewan  
*Age-Related Changes in Major Ovarian Follicle Wave Dynamics: Morphologic and Endocrinologic Characteristics*  
Mentor: Dr. Angela Baerwald

2009             BSc, Physiology (*with Great Distinction*), Department of Physiology, University of Saskatchewan

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**PROFESSIONAL CERTIFICATIONS**

2013 – date     American Registry for Diagnostic Medical Sonography (ARDMS) Board Certification in Obstetrical and Gynecological Ultrasound. ID #162178

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**PROFESSIONAL EXPERIENCE**

2012 – 2014     Research Support Specialist, Division of Nutritional Sciences, Cornell University

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**SCHOLARSHIPS & FELLOWSHIPS**

2020             Postdoctoral Fellowship, Canadian Institutes of Health Research, Canada. \$150,000

2016             Doctoral Foreign Student Award, Canadian Institute of Health Research, Canada. \$105,000

2011             Fredrick Banting & Charles Best Canada Master’s Graduate Scholarship – Master’s Award, Canadian Institute of Health Research, Canada. \$17,500

2010             University of Saskatchewan Master’s Thesis Scholarship, College of Graduate Studies and Research, University of Saskatchewan. \$15,000

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**GRANTS**

**Funded**

2021             **Co-Principal Investigator**, Cornell Magnetic Resonance Imaging (MRI) Facility Pilot Award, “*Establishing the ovary as a biomarker of the adolescent reproductive transition using magnetic resonance imaging.*” \$20,030

**Co-Principal Investigator**, Weill Cornell-Cornell Multi-Investigator Seed Grant, “*The interdependence of physical and psychological health during the adolescent reproductive transition.*” \$75,000.  
Co-Investigators: Dr. Jane Mendle (PI, Cornell University), Dr. Marla Lujan (Co-I, Cornell), Dr. Lisa Ipp (Co-I, Weill Cornell Medicine), Dr. Jane Chang (Co-I, Weill Cornell Medicine)

## AWARDS AND HONORS

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- 2022 Endocrine Society Outstanding Abstract Award. \$500  
Endocrine Society Early Career Forum Travel Award. \$400
- 2021 Presidential Poster, Pediatric Endocrine Society Annual Meeting.
- 2019 AIUM Sonographer Career Development Award. \$500
- 2018 Graduate Student Travel Award, Cornell University. \$675  
Endocrine Society Early Career Forum Travel Award. \$400
- 2017 Graduate Student Travel Award, Cornell University. \$400
- 2016 Graduate Student Research Travel Award, Cornell University. \$1000
- 2012 2<sup>nd</sup> Place Presentation, "Imaging" Theme. Annual Life Sciences Research Day, College of Medicine, University of Saskatchewan. \$50.
- 2011 Graduate Student Conference Travel Fund Award, University of Saskatchewan. \$1000  
Trainee Conference Travel Fund Award, STRAW+10 Symposium: Addressing the Unfinished Agenda of Staging Reproductive Aging. \$1000  
Best Clinical Research Presentation. Canadian Fertility and Andrology Society Annual Meeting. \$750.  
Top Abstract in the Reproductive Biology Theme. Annual Life Sciences Research Day, College of Medicine, University of Saskatchewan. \$100
- 2010 Saskatchewan Drug and Research Institute Essay Competition: A Celebration of Clinical Research Award Winner. \$750.
- 2009 Ferring Pharmaceuticals Travel Award. \$1000

## PUBLICATIONS

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### Peer-Reviewed Journal Articles

- 2022 **Vanden Brink H\***, Jobira B\*, Garcia-Reyes Y, Haseeb R, D'Alessandro A, Frank D, Robertson, C, Silverado L, Kelsey M, Cree-Green M. *Combined Oral Contraceptive Treatment Does Not Alter the Gut Microbiome but Affects Amino Acid Metabolism in Sera of Obese Girls With Polycystic Ovary Syndrome*. *Front Physiol.* 13:887077.  
\*co-first authorship
- 2021 **Vanden Brink H**, Nosrati A, Ortiz-Flores AE, Tam A, Jarrett BY, Johnson L, Peppin AK, Lujan ME. *Reliability and Agreement of Ultrasonographic Measures of the Ovarian Stroma: Impact of Methodology*. *J Ultrasou Med.Sep;41(9):2307-2315*.
- Vanden Brink H**, Pisch AJ, Lujan ME. *A Comparison of 2D and 3D Ultrasonographic Methods for the Evaluation of Ovarian Follicle Counts and Classification of Polycystic Ovarian Morphology*. *Fertil Steril.* Mar;115(3):761-770.  
Response to an Editorial: <https://www.fertstertdialog.com/posts/32194#comment-34900>
- 2020 **Vanden Brink H**, Pea J, Lujan ME. *Ultrasonographic features of ovarian morphology capture metabolic influences on the reproductive axis: implications for biomarker development in ovulatory disorders*. *Curr Opin Biotechnol.* Nov 25;70:42-47
- Vanden Brink H**, Pacheco LS, Bahnfleth CL, Green E, Johnson LM, Sanderson K, Demaio AR, Farpour-Lambert N, Ells LJ, Hill AJ. *Psychological interventions for children and adolescents with overweight or obesity aged 6 to 17 years*. *Cochrane Database Syst Rev.* Issue 7. Art. No.: CD013688.
- Jarrett BY, **Vanden Brink H**, Oldfield A, Lujan ME. *Ultrasound characterization of disordered antral follicle development in women with polycystic ovary syndrome*. *J Clin Endocrinol Metab.* Online ahead of print: DOI10.1210/clinem/dgaa515

- Kazemi M, Jarrett BY, **Vanden Brink H**, Lin A, Hoeger KM, Spandorfer SD, Lujan ME. *Obesity, Insulin Resistance, and Hyperandrogenism Mediate the Link Between Poor Diet Quality and Ovarian Dysmorphology in Reproductive-Aged Women*. *Nutrients*. June 30;12(7):E1953.
- Baerwald A, **Vanden Brink H**, Lee CH, Hunter C, Turner K, Chizen D. *Endometrial development during the transition to menopause: preliminary associations with follicular dynamics*. *Climacteric*. June; 23(3):288-297.
- 2019 Paprocki E, Barral RL, **Vanden Brink H**, Lujan ME, Burgert TS. *GnRH Agonist Improves Hyperandrogenism in an Adolescent Girl with an Insulin Receptor Gene Mutation*. *JES*. 3(6) 1196-1200.
- Jarrett BY, **Vanden Brink H**, Brooks ED, Hoeger KM, Spandorfer SD, Pierson RA, Chizen DR, Lujan ME. *Impact of right - left differences in ovarian morphology on the ultrasound diagnosis of polycystic ovary syndrome*. *Fertil Steril*. Nov;112(5):939-946.
- Lin AW, Kazemi M, Jarrett BY, **Vanden Brink H**, Hoeger KM, Spandorfer SD, Lujan ME. *Evaluation of Dietary and Physical Activity Behaviors in Women with Polycystic Ovary Syndrome (PCOS) as defined by the New International Evidence-based Guideline for the Assessment and Management of PCOS*. *Nutrients*. Nov 8;11(11):2711.
- 2018 **Vanden Brink H\***, Rackow BW\*, Hammers L, Flannery CA, Lujan ME, Burgert TS. *Ovarian Morphology by Transabdominal Ultrasound Correlates with Reproductive and Metabolic Disturbance in Adolescents With PCOS*. *J Adolesc Health*. 62(3)288-293.  
**\*Co-first authorship**
- Baerwald AR, **Vanden Brink H**, Hunter C, Beuker D, Lim H, Lee CH, Chizen DR. *Age-related changes in luteal dynamics: preliminary associations with antral follicular dynamics and hormone production during the human menstrual cycle*. *Menopause*. 25(4): 399-407.
- 2016 **Vanden Brink H**, Willis AD, Jarrett B, Lin A, Soler S, Best S, Bender E, Peppin A, Hoeger K, Lujan M. *Sonographic Markers of Ovarian Morphology, but not Hirsutism Indices, Predict Serum Total Testosterone in Women with Regular Menstrual Cycles*. *Fert Steril*. 105:1322-1329.
- 2015 **Vanden Brink H**, Robertson DM, Chizen DR, Harris G, Hale G, Burger HG, Baerwald AR. *Associations Between Antral Ovarian Follicle Dynamics and Hormone Production Throughout the Menstrual Cycle as Women Age*. *J Clin Endocrinol Metab*. 100: 4553-4562.
- Christ JP, **Vanden Brink H**, Brooks ED, Pierson RA, Chizen DR, Lujan ME. *Ultrasound features of polycystic ovaries relate to degree of reproductive and metabolic disturbance*. *Fert Steril* 103(3): 787-94.
- 2014 Christ JP, Willis AH, Brooks ED, **Vanden Brink H**, Jarrett BY, Pierson RA, Chizen DR, Lujan ME. *Follicle number, and not assessments of the ovarian stroma, represents the best ultrasonographic marker of polycystic ovary syndrome*. *Fertility and Sterility* 101(1): 280-287.
- Robertson DM, Kumar A, Kalra B, Shah S, Pruyers E, **Vanden Brink H**, Chizen D, Visser JA, Themmen AP, Baerwald A. *Detection of serum antimullerian hormone in women approaching menopause using sensitive antimullerian hormone enzyme-linked immunosorbent assays*. *Menopause* 21(12):1277-86.
- 2013 **Vanden Brink H**, Chizen D, Hale G, Baerwald AR. *Age-related changes in major ovarian follicular wave dynamics during the human menstrual cycle*. *Menopause* 20(12): 1243-1254.

- 2012 Harlow SD, Gass M, Hall J, Lobo R, Maki P, Rebar R, Sherman S, Sluss P, Villiers T, for the **STRAW+10 Collaborative Group**. *Executive summary of the Stages of Reproductive Aging Workshop +10: addressing the unfinished agenda of staging reproductive aging*. *Menopause* 19[4]: 387-395.

### Textbook Chapters

- 2022 **Vanden Brink H** & Lujan ME. Ovarian Ultrasonography in Polycystic Ovary Syndrome. In: G. Kovacs, B. Fauser & R. Legros (Eds), *Polycystic Ovary Syndrome* (pp. 29-44). Cambridge: Cambridge University Press. Doi: 10.1017/9781108989831.004

### In submission

- 2022 **Vanden Brink H**, Jarret BY, Peirera N, Spandorfer SD, Hoeger KM, Lujan ME. *Diagnostic Performance of Ovarian Morphology on Ultrasonography Across Anovulatory Conditions – Impact of Body Mass Index*. *JES*. Submitted.

**Vanden Brink H**, Anderson L, Jarrett BY, Spandorfer SD, Hoeger KM, Lujan ME. *Definitions of biochemical hyperandrogenism and metrics for glucoregulatory status impact metabolic risk assessment in women with polycystic ovary syndrome*. *Ultrasound Obstet Gynecol*. Submitted.

Schweisberger C, Hornberger L, Barral R, Burke C, Paprocki E, Sherman A, **Vanden Brink H**, Burgert TS. *Transgender Identity Among Adolescents with Polycystic Ovary Syndrome*. *J Pediatr Endocrinol Metab*. Accepted; in press.

Evans AT, **Vanden Brink H**, Lim JS, Jarret BY, Lin A, Lujan ME, Hoeger KM. *Overnight Melatonin Concentration and Sleep Quality are Associated with the Clinical Features of Polycystic Ovary Syndrome*. *F&S Reports*. Submitted.

### Conference Proceedings

- 2022 **Vanden Brink H**, Burgert TS, Barral R, Gadiraju M, Lujan ME. *Early Evidence for Ovarian Morphology as a Biomarker of Reproductive and Metabolic Health During the First Gynecological Year*. Proceedings of the Annual Meeting of the Endocrine Society Atlanta, GA, June 10-14. Abstract: SUN-373.

- 2021 Pea J, Jarrett BY, **Vanden Brink H**, Brooks ED, Hoeger KM, Spandorfer SD, Pierson RA, Chizen DR, Lujan ME. *Variable Discriminatory Power of Ovarian Markers Across Lifespan Warrant Age-Specific PCOS Criteria*. Proceedings from the 2021 Annual Meeting of the AE-PCOS Society, Virtual, November 12, 2021. Oral Presentation.

Carter FE, Jarrett BY, Oldfield AL, **Vanden Brink H**, Lujan ME. *Changes in PCOS Phenotype with Weight Loss are Associated with Baseline Free Androgen Status*. Proceedings from the 2021 Annual Meeting of The Androgen Excess and PCOS Society; Virtual, November 12, 2021.

**Vanden Brink H**, Paprocki E, Schweisberger C, Sherman A, Hornberger L, Barral R, Burgert T. *HbA1c as a Surrogate for Dysglycemia in Polycystic Ovary Syndrome (PCOS)*. Proceedings of the Pediatric Endocrine Society Annual Meeting, Virtual. Presidential Poster Session. Abstract: 2674.

Schweisberger C, Hornberger L, Barral R, Burke C, Paprocki E, Sherman A, **Vanden Brink H**, Burgert T. *Transgender Identity Among Adolescents with PCOS*, Oral Presentation, Proceedings of the Pediatric Endocrine Society Annual Meeting; Virtual, April 30, 2021

Oldfield A, Jarrett BY, Carter F, **Vanden Brink H**, Lujan ME. *Adiposity Alters Follicle Dynamics in Women of Reproductive Age with Regular Menstrual Cycles*. *JES*. 5[Supplement 1],Pg A728.

Evans AT, **Vanden Brink H**, Lim JS, Jarret BY, Lujan ME, Hoeger KM. *Overnight melatonin concentration and sleep quality are associated with clinical features of polycystic ovary syndrome.* J Endocr Soc 2021 v.5(Suppl 1): A743. PMID: PMC8090338

Pea J, Jarrett BY, **Vanden Brink H**, Brooks ED, Hoeger KM, Spandorfer SD, Pierson RA, Chizen DR, Lujan ME. Changes in Ovarian Biology Across the Reproductive Lifespan Necessitate Age-Specific Ultrasonographic Diagnostic Criteria for Polycystic Ovary Syndrome. Proceedings of the Tri-Institutional Symposium on Reproductive Biology and Infertility, Virtual, 04/21. Poster Presentation.

2020 **Vanden Brink H**, Jarret BY, Pereira N, Spandorfer SD, Hoeger K, Lujan ME. *Diagnostic Performance of Ovarian Morphology for Anovulatory Conditions in Lean And Overweight Women.* JES Volume 4 Issue Supplement 1, April May, MON-041

2019 **Vanden Brink H**, Anderson L, Jarrett BY, Hoeger KM, Spandorfer SD, Lujan ME. *Relevance of Fasting and Oral Glucose Tolerance Testing (OGTT)-derived Metrics of Insulin Resistance on Capturing the Impact of Glucoregulatory Status on Reproductive Disturbance in Women.* JES, Volume 3 Issue Supplement 1, April-May 2019, MON-212.

Kazemi M, Jarrett BY, **Vanden Brink H**, Lin AW, Hoeger KM, Spandorfer SD, Lujan ME. *Associations between diet quality and ovarian dysmorphology in premenopausal women are mediated by obesity and metabolic aberrations (OR36-03-19).* Current Developments in Nutrition, Volume 3, Issue Supplement 1, June 2019. OR36-03-19.

2018 **Vanden Brink H**, Pisch AJ, Lujan ME. *A Comparison of 2D and 3D Ultrasonographic Methods for the Evaluation of Ovarian Antral Follicle Number.* Proceedings of the 16th Annual Meeting of the Androgen Excess and PCOS Society, Stockholm, Sweden, September 23-25<sup>th</sup>. Abstract: 30.

**Vanden Brink H**, Lujan ME, Barral R, Burgert TS. *Changes in Ovarian Morphology in Adolescents Undergoing Pharmacological Treatment for PCOS.* Proceedings of the 16th Annual Meeting of the Androgen Excess and PCOS Society, Stockholm, Sweden, September 23-25<sup>th</sup>. Abstract: 31.

**Vanden Brink H**, Jarrett BY, Anderson L, Kockman L, Joseph-Sohan M, Guillaume-Abraham J, Stubbs R, Pereria N, Hoeger K, Spandorfer S, Lujan ME. *Ability of Ovarian Morphology to Predict Anovulatory Conditions Differs in Lean Versus Overweight/Obese Women.* Proceedings of the Annual Meeting of the Endocrine Society Chicago, IL, March 17-20. Abstract: SUN-282

Jarrett BY, **Vanden Brink H**, Lujan ME. *Utility of the Updated Ultrasound Criteria for Polycystic Ovary Syndrome Across the Menstrual Cycle.* Proceedings of the Annual Meeting of the Endocrine Society. Chicago, IL, March 17-20. Abstract: SUN 291

Jarrett BY, **Vanden Brink H**, Lujan ME. *Sonographic Evaluation of Sporadic Ovulatory Cycles in Oligomenorrheic Women with Polycystic Ovary Syndrome.* Proceedings of the Annual Meeting of the Endocrine Society. Chicago, IL, March 17-20, 2018. Abstract: SUN-293

2017 **Vanden Brink H**, Jarrett BY, Kochman L, Joseph-Sohan MI, Guillaume-Abraham JE, Stubbs RE, Pereira N, Hoeger KM, Spandorfer SD, Lujan ME. *Ovarian morphology differs between PCOS and normoandrogenic anovulation despite both meeting the updated criteria for polycystic ovaries.* Oral Presentation at the 15<sup>th</sup> Annual Meeting of the Androgen Excess and PCOS Society, San Antonio, TX, October 26-28.

Jarrett BY, **Vanden Brink H**, Bender EL, Lujan ME. *Longitudinal Characterization of Ovarian Antral Follicle Populations and Growth Kinetics in Women with Polycystic Ovary Syndrome.* Oral Presentation

at the 15th Annual Meeting of the Androgen Excess and PCOS Society, San Antonio, TX, October 26 – 28.

- 2015 Burgert TS, **Vanden Brink H**, Lujan M, Hammers L, Rackow B, Flannery C. *Various Sonographic Markers of Ovarian Morphology Relate to Degree of Androgen Excess in Adolescents with PCOS*. Oral Presentation at the 13<sup>th</sup> Annual Meeting of the Androgen Excess and PCOS Society, Siracusa, Italy. October 5. Oral Presentation.
- 2014 **Vanden Brink H**, Willis A, Jarrett B, Chizen D, Lujan M. *Utility of the Nine Regions of the Hirsutism Score in the Clinical Assessment of Hyperandrogenism: Relationship with Total Testosterone using Mass Spectrometry*. Proceedings of the 60<sup>th</sup> Annual Canadian Fertility and Andrology Society Meeting. Quebec City, Quebec. Abstract: FP30.
- 2013 **Vanden Brink H**, Christ J, Brooks E, Pierson R, Chizen D, Lujan M. 2013. *Follicle populations vary in lean and overweight women with frank polycystic ovary syndrome (PCOS)*. Proceedings of the 46<sup>th</sup> Annual Society for the Study of Reproduction Meeting. Montreal, Quebec, Canada. Abstract: 283017.
- 2012 Kontulainen S, **Vanden Brink H**, Chizen D, Robertson D, Hale G, Baerwald A. 2012. *Associations between pQCT derived bone and muscle properties and FSH, LH, AMH, Inhibin A and B, Estradiol and Progesterone concentrations during one interovulatory interval in women*. Proceedings of the Annual American Society for Bone and Mineral Research Meeting. Minneapolis, Minnesota, USA. Abstract: MO0285.
- Vanden Brink H**, Chizen D, Robertson D, Hale G, Burger, H, Baerwald A. 2012. *Major Follicular Wave Dynamics across the Reproductive Lifespan: Morphologic and Endocrinologic Characteristics*. Proceedings of the 58<sup>th</sup> Annual Canadian Fertility and Andrology Society Meeting. Ottawa, Ontario. Abstract:FC04.
- 2011 **Vanden Brink H**, Robertson D, Hale G, Chizen D, Baerwald A. 2011. *Antral Ovarian Follicular Dynamics during Reproductive Aging in Women*. Proceedings of the STRAW+10 Symposium: Addressing the Unfinished Agenda of Staging Reproductive Aging. Menopause; 18(12):1377-1378.
- Vanden Brink H**, Pugh K, Chizen D, and Baerwald A. 2011. *Ovarian Function during the Perimenopause: Serial Changes in Antral Follicle Count, Follicle Wave Dynamics, and Hormone Production during the Menstrual Cycle*. Proceedings of the 57<sup>th</sup> Annual Canadian Fertility and Andrology Society Meeting. Toronto, Ontario. Abstract: 95A0603.
- 2009 **Vanden Brink H**, Case A and Baerwald AR. 2009. *The Use of Highly Purified Urinary versus Recombinant Follicle Stimulating Hormone for Ovarian Stimulation Therapy in Women undergoing Assisted Reproduction*. Proceedings of the 55<sup>th</sup> Annual Canadian Fertility and Andrology Society Meeting. Montreal, Quebec. Abstract: FP26.

## INVITED PRESENTATIONS

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- 2021 **Vanden Brink H**, Burgert TS, Lujan ME. *Revisiting the relevance of ovarian morphology in the clinical evaluation of adolescents with PCOS*. Pediatric Endocrine Society State of the Art Lecture Series, invited by the PCOS Special Interest Group. 14 Dec.
- 2019 **Vanden Brink H**. *Ultrasonographic imaging of ovarian morphology for the diagnosis and evaluation of anovulatory conditions across the adiposity spectrum in women and adolescents*. Dissertation Seminar. Division of Nutritional Sciences. Cornell University, Ithaca, NY. 20 June.

- Vanden Brink H.** *Ultrasonographic imaging of ovarian morphology for the diagnosis and evaluation of anovulatory conditions across the adiposity spectrum in women and adolescents.* Reproductive Physiology / Endocrinology Seminar Series. Cornell University, Ithaca, NY. 1 May.
- 2017 **Vanden Brink H.** *The diagnosis of PCOS during adolescence: the potential role of ovarian morphology.* Maternal Child & Nutrition Seminar Series. Division of Nutritional Sciences. Cornell University, Ithaca, NY. 28 April.
- 2012 **Vanden Brink H,** Roberston D, Hale G, Chizen D, Baerwald A. *Major Follicular Wave Dynamics Throughout the Reproductive Lifespan in Women: Structural and Functional Characteristics.* Division of Nutritional Sciences Guest Presentation. Cornell University, Ithaca, NY. 9 April.
- Vanden Brink H,** Roberston D, Hale G, Chizen D, Baerwald A. *Antral Follicle Dynamics during the Transition to Menopause.* Health Science Graduate Student Seminar Series. College of Medicine, University of Saskatchewan, Saskatoon, Saskatchewan. 13 January.
- 2011 **Vanden Brink H,** Roberston D, Hale G, Chizen D, Baerwald A. *Antral Follicle Dynamics during the Transition to Menopause.* Reproductive Science and Medicine Seminar Series. University of Saskatchewan, Saskatoon, Saskatchewan. 30 November.
- Vanden Brink H.** *Age Related Changes in Ovarian Follicular Wave Dynamics during the Human Menstrual Cycle: An Update.* Health Science Graduate Student Seminar Series. College of Medicine, University of Saskatchewan, Saskatoon, Saskatchewan. 28 January.
- 2010 Tribulo P and **Vanden Brink H.** *Primordial Follicle Assembly and Initiation.* Reproductive Science and Medicine Seminar Series. University of Saskatchewan, Saskatoon, Saskatchewan. 1 October.
- 2009 **Vanden Brink H,** Case A, Baerwald AR. *The Use of Highly Purified Urinary versus Recombinant Follicle Stimulating Hormone for Ovarian Stimulation Therapy in Women Undergoing Assisted Reproduction.* Ferring Pharmaceuticals Luncheon. Department of Obstetrics, Gynecology, and Reproductive Sciences, Royal University Hospital, Saskatoon, Saskatchewan. 9 September.

## TEACHING EXPERIENCE

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### *Teaching Assistantships*

#### **Cornell University**

Human Anatomy & Physiology Laboratory (Spring 2015, Spring 2016)  
 Nutrition, Health, & Society (Fall 2015)

#### **University of Saskatchewan**

Experimental Basis of Physiology – Reproductive Physiology (Spring 2009, Spring 2010, Spring 2011)

### *Guest Lectures*

#### **Cornell University**

Research in Human Nutrition and Health (Spring 2016, Spring 2017)  
 Title: *Scientific Infrastructure: Societies, Conferences & Communication, and Funding*  
 Human Anatomy & Physiology Laboratory  
 Title: *Introduction to Endocrinology*

#### **University of Saskatchewan**

Physiology (Fall 2010)  
 Titles: *Male Reproductive Endocrinology, Female Reproductive Endocrinology*

### *Courses Developed and Taught*

## Cornell University

Ultrasound Image Analysis (Fall 2018, Fall 2019, Spring 2021)

*Description: This course was designed to train to conduct reproducible assessments of antral follicle populations and ovarian size in the Lujan Research Group. To date, the course has been delivered to undergraduates, graduate students, and medical trainees. The course culminates in an evaluation of inter-rater reliability and agreement.*

## MENTORSHIP EXPERIENCE

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### Advisor for Undergraduate Students

#### Honors Students

2019-2022 Aprile Bertomo (BSc '22) College of Human Ecology, Cornell University

Honors thesis postdoctoral supervisor

*“Adherence to a Mediterranean-style diet during the adolescent reproductive transition”*

2016-2018 Adrienne Pisch (BSc '18) CALS, Cornell University

Pisch AJ, **Vanden Brink H**, Lujan ME. *2D and 3D Ultrasonographic Methods Versus the 2D Grid Method for the Evaluation of Ovarian Morphology*. Proceedings of the 33<sup>rd</sup> Annual Cornell Undergraduate Research Board Spring Research Form. Cornell University, Ithaca, NY. Abstract 4.

Lydia Anderson (BSc '18) College of Arts and Science, Cornell University

Anderson LA, **Vanden Brink H**, Lujan ME. *Glucoregulatory dysfunction and anovulatory reproductive disturbance: A comparison between indices of insulin resistance*. Proceedings of the 33<sup>rd</sup> Annual Cornell Undergraduate Research Board Spring Research Form. Cornell University, Ithaca, NY. Abstract 63.

#### Undergraduate Mentees & Research Assistants

2021-present Anushka Malic (BSc '22), College of Arts & Science, Cornell University

Stephanie Wright (BSc '22), College of Arts & Science, Cornell University

Jessica Ma (BSc '23), College of Arts & Science, Cornell University

Maggie Shideler (BSc '23) College of Arts & Science, Cornell University

Effat Rahman (BSc '24) Nutritional Sciences, Cornell University

2019-present Gabriella Spinola (BSc '22) CALS, Cornell University

2019-2021 Anna Rodriguez (BSc '21) CALS, Cornell University

Joy Zhang (BSc '21) CALS, Cornell University

2019-2020 Jessica Lim (BSc '20) CALS, Cornell University

2018-present Mickayla Smith (BA '21), College of Arts & Science, Cornell University

2017-2018 Avigdor Nosrati (BSc '18), College of Arts & Science, Cornell University

Ashley Tam (BSc '19), CALS, Cornell University

2014-2017 Jeannine Whelan (BSc '17) College of Human Ecology, Cornell University

Whelan J, **Vanden Brink H**, Lujan ME. *Changes in Endometrial Development in Overweight or Obese Women with Regular Menstrual Cycles*. Proceedings of the 32<sup>nd</sup> Annual Cornell Undergraduate Research Board Spring Research Form.

2014-2016 Tatyana Roberts (BSc '16) College of Human Ecology, Cornell University

2013-2015 Lois Ann Davis (BA '15) College of Human Ecology, Cornell University

Davis LA, **Vanden Brink H**, Lujan ME. *Endometrial Development Using Ultrasonography in Lean Anovulatory Women: Emerging Patterns*. Proceedings of the 30<sup>th</sup> Annual Cornell Undergraduate Research Board Spring Research Form.

2013-2014 Sheena Patel (BSc '14) College of Human Ecology, Cornell University

Patel S, **Vanden Brink H**, Lujan ME. *Ultrasonographic Evidence of Impaired Endometrial Development Across the Luteal Phase of Women with PCOS: A Pilot Study*. Proceedings of the 29<sup>th</sup> Annual Cornell Undergraduate Research Board Spring Research Form.

Nikhita Chahal (BSc '14) College of Human Ecology, Cornell University

2012-2013 Vanessa Velez (BSc '13) College of Human Ecology, Cornell University

#### Advisor for Medical Trainees

2020- present Manasa Gadiraju, Medical Student, University of Missouri Kansas City

*Research elective, Fall 2021*



- 2019-present *Volunteer research assistant, Summer 2020-present*  
Adam Evans, MD. Resident, Obstetrics & Gynecology, University of Rochester  
*Resident research project, manuscript in preparation*
- 2017 Andres Ortiz-Flores, Endocrinology Fellow, Hospital Universitario Ramón y Cajal  
*Research elective, Spring 2017*

#### **CURRENT PROFESSIONAL AFFILIATIONS**

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- 2021 – present Member, Paediatric Endocrine Society (PES)  
2020 – present Member, The Cochrane Collaboration  
2019 – present Member, The Androgen Excess & PCOS Society (AEPCOS)  
2017 – present Member, The Endocrine Society  
2014 – present Member, American Institute for Ultrasound in Medicine (AIUM)  
2013 – present Member, American Registry for Diagnostic Medical Sonography (ARDMS)

#### **PROFESSIONAL ACTIVITIES & LEADERSHIP**

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- 2022 Reviewer, Canadian Institutes of Health Research Doctoral Studies Awards  
2021 – 2022 Trainee Executive Committee, Cornell Reproductive Sciences Center (CoRe)  
2021 – present Member, PES Polycystic Ovary Syndrome Special Interest Group  
2019 – 2021 Co-Chair, Early Career Special Interest Group, AE-PCOS  
2018 Advocate, Endocrine Society Research Hill Day on Capitol Hill (Washington, DC)  
2015 Ad-hoc Abstract Reviewer for the Canadian Fertility and Andrology Society (CFAS) 15<sup>th</sup> Annual Meeting

#### **PROFESSIONAL DEVELOPMENT & CONTINUING EDUCATION**

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- 2017 World Health Organization / Cochrane / Cornell Summer Institute for Systematic Reviews in Nutrition for Global Policy Making, Cornell University, Ithaca, NY  
Building Mentoring Skills for an Academic Career, Center for Integration of Research, Teaching, and Learning, Cornell University, Ithaca, NY  
2016 Colman Leadership Program, Cornell University Graduate School, Ithaca, NY  
2010 Reproductive Ultrasonography and Embryo Transfer Workshop, Western College of Veterinary Medicine, University of Saskatchewan Saskatoon, Saskatchewan

#### **PEER REVIEWER**

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##### **Journals**

- Endocrinology, Diabetes & Metabolism
- Clinical Endocrinology
- PLoS ONE
- Journal of Ultrasound in Medicine
- Ultrasound in Obstetrics & Gynecology
- Nutrients
- International Journal of Women's Health