

# Jovana Lekovich MD, F.A.C.O.G.

## POSTDOCTORAL TRAINING

- Fellowship** **Ronald O. Perelman and Claudia Cohen Center for Reproductive Medicine**  
**Weill Cornell Medicine**, New York, NY  
Clinical fellowship in Reproductive Endocrinology and Infertility, *July 2014- July 2017*
- Residency** **New York Presbyterian Hospital-Weill Cornell Medicine**, New York, NY  
Residency in Obstetrics and Gynecology, *June 2010-July 2014*

## EDUCATION

- Research Associate** **State University of New York- Downstate**, New York, NY  
Investigated the role of activation of complement B in preeclampsia (NIH grant R21HL088527) *June 2009-March 2010*
- Medical School** **University of Belgrade School of Medicine**, Belgrade, Serbia  
-MD with Honors (*Magna cum laude*), *October 2001-March 2008*  
-Internship (medical licensing) *April 2008- April 2009*

## CERTIFICATION

- American Board of Obstetrics and Gynecology (*12/2015-Present*)  
Educational Commission for foreign Medical Graduates (ECFMG) (issued 2009)

## MEDICAL LICENSURE State of New York (*active*)

## PUBLICATIONS

### **PEER REVIEWED:**

- **Lekovich J**, Man L, Canon C, Pereira N, Rosenwaks Z, Gerhardt J. FMR1 premutation patients with mid-range CGG repeat size and reduction in AGG interruptions demonstrate poorer ovarian reserve. (*submitted to Genetics in Medicine- Nature Publishing Group 6/2017*)
- **Lekovich J**, Meyer L, Pereira N, Chung P, Rosenwaks Z. The Value of Cycle Day 24 and 26 Serum  $\beta$ -hCG Assays in Predicting IVF Pregnancy Outcome. (*submitted to Fertility and Sterility 5/2017*)
- Hutchinson AP, Pereira N, Lilienthal DP, Coveney S, **Lekovich J**, Elias RT, Rosenwaks Z. Impact of FMR1 pre-mutation status on blastocyst development in patients undergoing preimplantation genetic diagnosis. *Gynecol Obstet Invest* 2/2017 (Epub ahead of print)
- Man L, **Lekovich J**, Gerhardt J. Fragile-X associated primary ovarian insufficiency and diminished ovarian reserve: from molecular mechanisms to clinical manifestations (review article) (accepted for publication by *Frontiers in Molecular Neuroscience* 4/2017)
- **Lekovich J**, Stewart JD, Anderson S, Niemasik E, Pereira N, Chasen S. Placental malperfusion as a possible mechanism of preterm birth in patients with mullerian anomalies. *J Perinat Med* Aug 2016. PMID: 27639266
- Pereira N, Petrini AC, **Lekovich J**, Schattman GL, Rosenwaks Z. Comparison of perinatal outcomes following fresh and frozen-thawed blastocyst transfer. *Int J Gynaecol Obstet* Jun 2016. PMID: 27388034
- Hutchinson AP, Pereira N, **Lekovich J**, Hobeika E, Elias RT. Antibiotic Prophylaxis for Gynecologic Procedures prior to and during the Utilization of Assisted Reproductive Technologies: A Systematic Review. *J Pathog.* 2016; PMID: 27047692
- **Lekovich J**, Lobel A, Stewart JD, Pereira N, Kligman I, Rosenwaks Z. "Female patients with lymphoma demonstrate diminished ovarian reserve even before initiation of chemotherapy when compared with healthy controls and patients with other malignancies". *J Assist Reprod Genet* April 2016. PMID: 26943918
- Pereira N, Neri QV, **Lekovich J**, Palermo GD, Rosenwaks Z. The role of in-vivo and in-vitro maturation time on ooplasmic dysmaturity. *Reprod Biomed Online.* April 2016. PMID: 26896430
- Pereira N, Amrane S, Hobeika E, **Lekovich J**, Chung PH, Rosenwaks Z. Cyst aspiration or GnRH antagonist administration for ovarian cysts detected at the start of fresh in vitro fertilization cycles. *Gynecol Endocrinol.* 2016 Feb (Epub ahead of print). PMID: 26850271
- Pereira N, Neri QV, **Lekovich J**, Spandorfer SD, Palermo GD, Rosenwaks Z. Outcomes of Intracytoplasmic Sperm Injection Cycles for Complete Teratozoospermia: A Case-Control Study Using Paired Sibling Oocytes. *Biomed Res Int.* 2015. PMID: 26839883
- **Lekovich J**, Pfeifer S. Cervical agenesis. (Chapter in: Pfeifer S. Congenital mullerian anomalies: Diagnosis and management. 5<sup>th</sup> Edition, Springer) DOI 10.1008/978-3-319-27231-3\_5
- Pereira N, Petrini AC, **Lekovich J**, Elias TR, Spandorfer SD. Surgical management of endometrial polyps in infertile women: A comprehensive review. *Surg Res Pract* Aug 2015. PMID: 26301260
- **Lekovich J**, Witkin S, Doulaveris G, Orfanelli T, Shullman B, Pereira N, Rosenwaks Z, Spandorfer SD. Elevated serum Interleukin 1-beta levels and interleukin 1-beta-to-interleukin 1-receptor antagonist ratio one week after embryo transfer are associated with ectopic pregnancy. *Fertility & sterility* Nov 2015. PMID: 26279136
- **Lekovich J**, Amrane S, Pangasa M, Pereira N, Frey MK, Varrey A, Holcomb K. Comparison of Human Papillomavirus Infection and Cervical Cytology in Women Using Copper and Levonorgestrel-Containing Intrauterine Devices. *Obstetrics and Gynecology* May 2015. PMID: 25932838
- Gerber D, Pereira N, Gerber RS, **Lekovich J**, Elias RT, Spandorfer SD, Rosenwaks Z. Effect of methotrexate or salpingectomy for ectopic pregnancy on subsequent in vitro fertilization-embryo transfer outcomes. *Journal of Minimally Invasive Gynecology* 2015 Jul PMID: 25917279
- Velickovic I, Dalloul M, Alam A, Medranda G, Yuan Lai C, **Lekovich J**, Shuaib W, Tedjasukman A, Little P, Hanono D, Jun Lin J, d'Arby Toledano R, Zhang M. Complement Factor B activation in patients with preeclampsia. *Journal of reproductive Immunology* May 2015 PMID: 25604034
- Pereira N, Reichman DE, **Lekovich J**, Goldschlag DE, Rosenwaks Z. Impact of elevated peak serum estradiol levels during controlled ovarian hyperstimulation on the birth weight of term singletons from fresh IVF-ET cycles. *Journal of Assisted Reproduction and Genetics* Apr 2015. PMID: 25682115
- Geynisman J, **Lekovich J**, Tsai T. Bilateral catamenial pneumothorax and pulmonary emboli. *J of Obstet and Gynaecol.* March 2014. PIMD: 25020204
- Adams B, **Lekovich J**, Robinson S. Clostridium perfringens sepsis following a molar pregnancy. *Am J of Obstet and Gynecol* PMID: 24096275
- **Lekovich J**, Friedman CF, DeSancho MT. Lingual thrombosis in woman with antiphospholipid syndrome. *Am J Obstet Gynecol.* March 2013. PMID: 23313716
- Maric NP, Stojiljkovic D, Milekic B, Milanov M, **Bijelic J**. Change of students' interest in psychiatry over the years at School of Medicine, University of Belgrade, Serbia. *Isr J Psychiatry Relat Sci.* 2011. PMID: 21572242

## ABSTRACTS:

- **Lekovich J**, Man L, Canon C, Pereira N, Rosenwaks Z, James D. Cycle day 2 serum IGF-1 levels are predictive of negative pregnancy outcome in poor responders (American Society for Reproductive Medicine Annual Meeting, Huston, TX 2017)
- **Lekovich J**, Man L, Canon C, Pereira N, Rosenwaks Z, James D. Co-transplantation of human ovarian tissue with IGF-1 producing endothelial cells improves survival of early stage follicles and is associated with accelerated follicular growth in vivo (American Society for Reproductive Medicine Annual Meeting, Huston, TX 2017)
- **Lekovich J**, Man L, Xu K, Lilienthal D, Canon C, Pereira N, Rosenwaks Z, Gerhardt J. FMR1 premutation carriers with mid-range CGG repeat size and reduction in AGG interruptions demonstrate poorer ovarian reserve (American Society for Reproductive Medicine Annual Meeting, Huston, TX 2017)
- **Lekovich J**, Man L, Xu K, Lilienthal D, Canon C, Pereira N, Rosenwaks Z, Gerhardt J. FMR1 premutation carriers with mid-range CGG repeat size demonstrate poorer ovarian reserve (European Society for Human Reproduction and Embryology Annual Meeting, Zurich, Switzerland 2017)
- Pereira N, Elias R, Hancock K, **Lekovich J**, Rosenwaks Z. Hyperestrogenic milieu during fresh in vitro fertilization cycles and low birth weight: Does a suprphysiologic threshold exist? (American Society of Reproductive Medicine Annual Meeting, Salt Lake City, UT 2016)
- Hutchinson A, Pereira N, Melnick A, **Lekovich J**, Kligman I, Rosenwaks Z. Supernumerary blastocysts available for cryopreservation in fresh IVF cycles: Prognostic value for IVF outcomes? (American Society of Reproductive Medicine Annual Meeting, Salt Lake City, UT 2016)
- **Lekovich J**, Chung P, Lobel A, Melnick A, Lapidus D, Pereira N, Rosenwaks Z. Decreased rate of euploid embryos by preimplantation genetic screening is associated with lower birth rates. (American Society of Reproductive Medicine Annual Meeting, Baltimore, MD 2015)
- **Lekovich J**, Stewart JD, Pereira N, Palermo GD, Rosenwaks Z. Should endometriosis be an indication for intra-cytoplasmic sperm injection (ICSI)? (American Society of Reproductive Medicine Annual Meeting, Baltimore, MD 2015)
- **Lekovich J**, Frey MK, Pangasa M, Chan M, Holcomb K. A comparison of Human Papilloma Virus infection and cervical cytology in women with copper and levonorgestrel containing intrauterine devices (abstract nominated for Clinical Science Award) (European Society of Human Reproduction and Embryology Annual Meeting, London, UK, 2013)
- **Lekovich J**, Pangasa M, Movilla P, Reiss J, Prasad L, Taubel D. Does prior hysterectomy improve patients' knowledge of female reproductive tract anatomy and physiology? - A survey (American Society of Reproductive Medicine Annual Meeting Boston, MA, 2013)
- **Lekovich J**, Movilla P, Varrey A, Chan M, Prasad L, Taubel D. Poor understanding of female reproductive tract anatomy, physiology and its impact on patients' perceptions- An anonymous survey (American Society of Reproductive Medicine Annual Meeting Boston, MA, 2013)
- Meyer L, **Lekovich J**, Reichman D, Chung P. The effect of anesthesia during embryo transfer on in vitro fertilization outcome. (American Society of Reproductive Medicine Annual Meeting Boston, MA, 2013)
- Karipcin S, Pereira N, Levine B, **Lekovich J**, Rosenwaks Z, Spandorfer S. Triggering at follicle sizes a day earlier than previous failed cycle increases number of embryos available for transfer and blastocysts for cryopreservation while decreasing abnormal fertilizations. (American Society of Reproductive Medicine Annual Meeting Boston, MA, 2013)
- Dalloul M, Toledano R, Hanono D, **Lekovich J**, Zhang M, Velickovic I. Activation of Complement Factor B in Preeclampsia Patients of Different Ethnicities (Society of Obstetrics Anesthesia and Perinatology Annual Meeting, San Juan, 2013)
- Singer T, Noel M, **Lekovich J**, Huang J, Davis O, Rosenwaks Z. Does Anti-Mullerian Hormone Correlate with Embryo Quality in IVF Cycles? (American Institute of Ultrasound in Medicine Annual Meeting, Phoenix, AZ 2012)
- Singer T, Huang J, **Lekovich J**, Zakarin L, Schattman G, Rosenwaks Z. The use of Letrozole in breast cancer patients undergoing fertility preservation IVF treatment is associated with similar oocyte yield and reduced estradiol levels. (American Society of Reproductive Medicine Annual Meeting, Orlando, FL 2011)
- Djordjevic M, Stanojevic D, **Bijelic J**, Bizic M, Majstorovic M. Metoidioplasty as a single stage sex reassignment surgery in female transsexuals. (Congress of Serbian Association of Urology, Belgrade, Serbia 2007)
- **Bijelic J**, Brkic M, Maric NP. Obstetrical complications as a risk factor for schizophrenia. (6<sup>th</sup> European Students' Conference, Berlin, Germany 2005)

## DIDACTICS AND INVITED LECTURES:

- Open hysterectomy and basics of deep pelvic surgery. Hands-on training in surgical simulation lab. OB/GYN Residents. New York Presbyterian Hospital- Weill Cornell Medicine 2015-2017
- Laparoscopic entry and port placement. Hands-on training in surgical simulation lab. OB/GYN Residents. New York Presbyterian Hospital- Weill Cornell Medicine 2015-2017
- Menopause. 1<sup>st</sup> year Medical Students. Health, Illness and Disease Course, Reproductive Module. Weill Cornell Medical College. New York, NY 2015-2017
- Evaluation of a couple with infertility. 1<sup>st</sup> year Medical Students. OB/GYN Clerkship. Weill Cornell Medical College. New York, NY 2014-2017
- Folliculogenesis and Menstrual Cycle. OB/GYN Residents' Lecture. New York Presbyterian Hospital- Weill Cornell Medicine 2017
- Invited lecture: Elevated serum Interleukin 1-beta levels and interleukin 1-beta-to-interleukin 1-receptor antagonist ratio one week after embryo transfer are associated with ectopic pregnancy. International Congress of Gynaecology and Obstetrics, Barcelona, Spain 2016
- Fertility Preservation. OB/GYN Residents' Lecture. New York Presbyterian Hospital- Weill Cornell Medicine 2015
- Ectopic Pregnancy. OB/GYN Residents' Lecture. New York Presbyterian Hospital- Weill Cornell Medicine 2015
- Invited lecture: Comparison of Human Papillomavirus Infection and Cervical Cytology in Women Using Copper and Levonorgestrel-Containing Intrauterine Devices. New York University- Langone Medical Center, New York, NY 2015
- Puberty. OB/GYN Residents' Lecture. New York Presbyterian Hospital- Weill Cornell Medicine 2014
- Thyroid gland: Physiology and disorders. OB/GYN Residents' Lecture. New York Presbyterian Hospital- Weill Cornell Medicine 2014
- Assisted Reproductive Technologies and fertility preservation. Yugoslavian- American Medical Society (YAMS) annual meeting, Lennox Hill Hospital, New York, NY 2013

### **CURRENT RESEARCH:**

- The effect of DHEA on reproductive function in aged female mice  
-Principal investigator: Daylon James, PhD  
-Support: Institutional
- The effects of activity and the amount of sleep during controlled ovarian hyperstimulation and following embryo transfer on IVF cycle outcomes: A prospective observational study using activity trackers with high resolution  
-Principal investigator: Dan Goldschlag, MD  
-Support: Institutional
- Thesis: Co-transplantation of human ovarian tissue with IGF-1- producing endothelial cells improves survival of the early stage follicles and is associated with accelerated follicular growth (human-mouse hybrid model)  
-Principal investigator: Daylon James, PhD  
-Support: 2016 ASRM research grant; Clinical and Translational Science Center- Weill Cornell Medicine research grant; Institutional

### **GRANTS/AWARDS/HONORS**

- Outstanding Research Paper- New York Obstetrical Society Resident and Fellow Research Night 2015
- Special Resident in Minimally Invasive Gynecology, AAGL 2014
- SLS Outstanding Laparoendoscopic Resident Surgeon, Society of Laparoendoscopic Surgeons, 2014
- Award for excellence in female pelvic medicine and reconstructive surgery, AUGS, 2013
- Ethicon Minimally Invasive Surgery GYN Resident Training Fellowship, Cincinnati, 2013
- 60<sup>th</sup> ACOG Annual Clinical Meeting, Resident Reporter, San Diego, CA 2012
- Magna Cum Laude, University of Belgrade School of Medicine, 2008
- Republic of Serbia Governmental Scholarship, 2004-2007
- International Federation Medical Students Association Training Fellowship in Obstetrics and Gynecology, Mexico, 2006
- Anatomy Honor Society, University of Belgrade School of Medicine, Inducted 2004
- Art and Science Development Foundation Scholarship 2001-2007 (Awarded to top 150 students in the nation)

### **PROFESSIONAL SOCIETIES**

- Fellow, American College of Obstetricians and Gynecologists (ACOG)
- Fellow, Society for Reproductive Endocrinology and Infertility (SREI)
- Member, American Medical Association (AMA)
- Member, American Society for Reproductive Medicine (ASRM)
- Member, European Society for Human Reproduction and Embryology (ESHRE)
- Member, American Association for Advancement of Science (AAAS)

### **VOLUNTEER EXPERIENCE**

- Ad hoc reviewer, Reproductive Biology and Endocrinology (January 2017-*Present*)
- Editorial board, Epigenetic Diagnosis and Therapy (December 2016- *Present*)
- Editorial board, Andrology and Gynecology Reports (July 2016- *Present*)
- Content review committee, 45<sup>th</sup> AAGL Global Congress on Minimally Invasive Gynecology, Orlando, FL, 2016
- Ad hoc reviewer, Journal of Assisted Reproduction and Genetics (*JARG*) (November 2015- *Present*)
- Content review committee, 42<sup>nd</sup> AAGL Global Congress on Minimally Invasive Gynecology, Washington DC, 2013
- House Staff Quality Council at New York Presbyterian Hospital- OB/GYN Department representative, 2011-2014
- Local Organizer for Research Exchange, International Federation of Medical Students' Association (IFMSA), 2005-2009, Alumni 2009-*Present*
- Tutor in Anatomy and Histology, University of Belgrade School of Medicine, (2004-2009)

### **HOBBIES/INTERESTS**

- Snowboarding/skiing, competed in gymnastics and synchronized swimming; piano, guitar
- Fluent in Serbian, Croatian, Bosnian, English; conversational Spanish; basic Russian