

CURRICULUM VITAE

NAME : John L. Frattarelli, M.D., FACOG

OFFICE ADDRESS: Pacific In Vitro Fertilization Institute  
Kapi'olani Medical Center  
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Advanced Reproductive Medicine and Gynecology of Hawaii, Inc.  
Kailua Medical Arts Building  
407 Uluniu Street, Suite 312  
Kailua, HI, 96734  
Office: 808.262.0544

EDUCATION:

1985-1989 Vanderbilt University BA: Classical Studies and General Biology  
Nashville, TN.

1989-1993 University of Tennessee MD  
College of Medicine  
Memphis, TN.

MILITARY SERVICE:

Lieutenant Colonel, Medical Corps, United States Army, Active Duty,  
15 June 2005 – 30 June 2006.

Major, Medical Corps, United States Army, Active Duty,  
15 June 1999 - 14 June 2005.

Captain, Medical Corps, United States Army, Active Duty,  
15 June 1993 - 14 June 1999.

EMPLOYMENT HISTORY:

October 2008 - present...Pacific In Vitro Fertilization Institute, Honolulu HI.

November 2008 – present... Advanced Reproductive Medicine and Gynecology of Hawaii, Inc.

July 2006- October 2008...Reproductive Medicine Associates of New Jersey, Morristown NJ.

July 2000 – June 2006...US ARMY at Tripler Army Medical Center, Honolulu, HI.

POSTGRADUATE TRAINING

Internship, Obstetrics and Gynecology: Walter Reed Army Medical Center  
1993-1994 Washington DC

Residency, Obstetrics and Gynecology: Walter Reed Army Medical Center  
1994-1997 Washington DC

Fellowship, Reproductive Endocrinology The National Institute of Health  
1997-2000 Bethesda, MD

ACADEMIC APPOINTMENTS

## J. L. Frattarelli, M.D. 2

1995 – 2001	Department of Obstetrics and Gynecology Uniformed Services University of the Health Sciences F. Edward Hebert School of Medicine Uniformed Services University of the Health Sciences Bethesda, MD	Instructor
1997 - 2000	Developmental Endocrinology Branch National Institutes of Health Bethesda, MD	Adjunct Scientist
2000 – 2006	Department of Obstetrics and Gynecology Tripler Army Medical Center Honolulu, HI	CHIEF, Division of Reproductive Endocrinology
2000 – 2006	Department of Obstetrics and Gynecology Tripler Army Medical Center Honolulu, HI	Director, Assisted Reproductive Technology Program
2002 - 2006	Department of Obstetrics and Gynecology Uniformed Services University of the Health Sciences F. Edward Hebert School of Medicine Uniformed Services University of the Health Sciences Bethesda, MD	Assistant Professor
2004 – 2006	Department of Obstetrics and Gynecology John A. Burns School of Medicine University of Hawaii Honolulu, HI	Assistant Clinical Professor
2002 – 2006	Department of Obstetrics and Gynecology Tripler Army Medical Center Honolulu, HI	Associate Residency Program Director
2007 - 2008	Department of Obstetrics and Gynecology Robert Wood Johnson Medical School University of Medicine and Dentistry of NJ New Brunswick, NJ	Associate Professor

### SPECIALTY AND SUBSPECIALTY CERTIFICATION

1994	Diplomat, National Board of Medical Examiners
2001	Diplomat, American Board of Obstetrics & Gynecology Recertified 2008
2003	Board Certified, American Board of Obstetrics & Gynecology Division of Reproductive Endocrinology and Infertility, Recertified 2008

### PROFESSIONAL ORGANIZATIONS

1993 - present	American College of Obstetricians and Gynecologists ...1993-present
2006 - 2008	CHAIR , Obstetrics and Gynecology CREOG Examination Subspecialist Committee
2005 - 2008	Gynecologic Practice Subcommittee on Reproductive Endocrinology

### **J. L. Frattarelli, M.D. 3**

2006 – 2008 CREOG Education Committee  
2004 – 2008 Obstetrics and Gynecology In-Training Examination Subspecialist Committee  
2002 – 2005 PROLOG Reproductive Endocrinology and Infertility, 5<sup>th</sup> edition, Task Force  
2001 – 2002 Scientific Program Chair, 2002 American College of Obstetricians and Gynecologists Armed Forces District Meeting, Honolulu, HI

1997 - present American Society for Reproductive Medicine  
2002 - 2008 ASRM Resident Education Committee

2002 - 2008 The Association of Professors of Gynecology and Obstetrics

2002 – 2008 The Counsel of Resident Education in Obstetrics and Gynecology

2003 - present The Society for Reproductive Endocrinology and Infertility  
2001 – 2003 Co-Chairman, Society for Reproductive Endocrinology and Infertility Associates

2007 - 2008 European Society of Human Reproduction and Embryology

#### HONORS / AWARDS

1989 Magna Cum Laude, Vanderbilt University, Nashville, TN.

1989 - 1993 Health Professions Scholarship Program, US Army, University of Tennessee, College of Medicine, Memphis, TN

1996 Wyeth-Ayerst Resident Reporter, American College of Obstetricians and Gynecologists, Denver, CO

1996 Special Excellence in Endoscopic Procedures Award, Walter Reed Army Medical Center

1997 United States Army Achievement Medal (1), Walter Reed Army Medical Center

2000 United States Army Commendation Medal (1), Walter Reed Army Medical Center

2001 United States Army Commendation Medal (2), Tripler Army Medical Center

2001 National Faculty Award, Council on Resident Education in Obstetrics and Gynecology, The American College of Obstetricians and Gynecologists, Tripler Army Medical Center, Honolulu, HI

2002 United States Army Commendation Medal (3), Tripler Army Medical Center

2003 National Faculty Award, Council on Resident Education in Obstetrics and Gynecology, The American College of Obstetricians and Gynecologists, Tripler Army Medical Center, Honolulu, HI

2005 The Meritorious Service Medal (1), United States Army, Tripler Army Medical Center

2005-2006 Clinical Research/Reproductive Endocrinology Scientist Training Program (CREST), Duke University Medical Center and the National Institutes of Health, Durham, NC and Bethesda, MD

2006 The Meritorious Service Medal (2), United States Army, Tripler Army Medical Center

#### AWARD WINNING RESEARCH:

1998 Robert C Park Annual Research Award. "Clinical Efficacy of Microdose Follicular Phase GnRH-a Protocol Compared to a Standard Luteal Phase GnRH-a Protocol for In Vitro Fertilization".

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- 1999 Fellows Award for the Best Scientific Paper on Reproductive Endocrinology and Infertility, The American College of Obstetricians and Gynecologists Armed Forces District, San Antonio, TX. "Evaluation of the prognostic significance of day 3 estradiol levels in In Vitro Fertilization."
- 2000 Finalist for the Bailey K Ashford Clinical and Laboratory Research Award, Department of the Army, Walter Reed Army Medical Center. "GnRH secretion and pulsatility: the role of cAMP in GT1-7 cells."
- 2000 Founder's Award for Best Scientific Paper, The American College of Obstetricians and Gynecologists Armed Forces District, Cincinnati, OH., 2000. "GnRH secretion and pulsatility: the role of cAMP in GT1-7 cells."
- 2001 Host Award for Best Scientific Paper on a Clinical Subject, The American College of Obstetricians and Gynecologists Armed Forces District, Norfolk, VA. "Blastocyst Transfer Decreases Multiple Pregnancy Rates: A Prospective Randomized Study."
- 2001 Fellow's Award for Best Scientific Paper on Reproductive Endocrinology, The American College of Obstetricians and Gynecologists Armed Forces District, Norfolk, VA. "Leptin Affects GnRH and cAMP Secretion and Pulsatile Patterns: A Possible Mechanism for the Initiation of Puberty."
- 2001 Chairman's Award for Best Scientific Paper on Reproductive Endocrinology, The American College of Obstetricians and Gynecologists Armed Forces District, Norfolk, VA. "Leptin Affects GnRH and cAMP Secretion and Pulsatile Patterns: A Possible Mechanism for the Initiation of Puberty."
- 2004 Tripler Resident Research Day Award, Mentor and second author, Peterson EH, Frattarelli JL. Effect of androgen levels on in vitro fertilization cycles.
- 2005 Tripler Resident Research Day Award, Mentor and second author: Csokmay J, Frattarelli JL. Basal Ovarian Cysts and Clomiphene Citrate Ovulation Cycles.
- 2006 Tripler Resident Research Day Award, Mentor and second author: McWilliams GDE, Frattarelli JL. Changes in Measured Endometrial Thickness Predict In Vitro Fertilization Success.

### EDITORIAL POSITIONS:

*Fertility and Sterility*, Ad Hoc Reviewer.  
*Human Reproduction*, Ad Hoc Reviewer.  
*Obstetrics and Gynecology*, Ad Hoc Reviewer.  
*American Journal of Obstetrics and Gynecology*, Ad Hoc Reviewer.  
*Journal of Assisted Reproduction and Genetics*, Ad Hoc Reviewer.  
*Journal of Reproductive Medicine*, Ad Hoc Reviewer.

### INVITED ARTICLES AND CONTRIBUTIONS

PROLOG Reproductive Endocrinology and Infertility, 5<sup>th</sup> edition, American College of Obstetricians and Gynecologists, 2005.

CREOG (Obstetrics and Gynecology In-Training Examination) questions 2004-2009.

### ORIGINAL PEER REVIEWED PUBLICATIONS

1. Frattarelli JL et al. Logarithmic curves depicting initial level and rise of serum beta human chorionic gonadotropin and live delivery outcomes with in vitro fertilization: An analysis of 6021 pregnancies. *Fertil Steril* 2008; epub ahead of print
2. Frattarelli JL et al. A luteal estradiol protocol for anticipated poor-responders may improve delivery rates. *Fertil Steril*.2008; epub ahead of print

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3. Frattarelli JL et al. Male age negatively impacts embryo development and reproductive outcome in donor oocyte assisted reproductive technology cycles. *Fertil Steril*. 2007. epub ahead of print
4. Frattarelli JL et al. A luteal estradiol protocol for expected poor-responders improves embryo number and quality. *Fertil Steril*. 2008;89:1118-22.
5. Frattarelli JL et al. Low-dose aspirin use does not improve in vitro fertilization outcomes in poor responders. *Fertil Steril*. 2008;89:1113-7.
6. Frattarelli JL et al. The predictive value for in vitro fertility delivery rates is greatly impacted by the method used to select the threshold between normal and elevated basal follicle-stimulating hormone. *Fertil Steril*. 2008;89:868-78.
7. Frattarelli JL et al. Do USMLE Step I scores correlate with CITROG and ABOG Written Examination Performance? *Mil Med*. 2007;173:640-43.
8. Frattarelli JL et al. "The utility of serum leptin and follicular fluid leptin, estradiol, and progesterone concentrations in infertility patients undergoing IVF". *J Assist Reprod Genet*. 2007;24(5):183-8.
9. Frattarelli JL et al. The utility of the pre-stimulation mock embryo transfer to determine uterine depth for embryo transfer. *J Assist Reprod Genet*. 2007;24:77-82.
10. Frattarelli JL et al. Changes in Measured Endometrial Thickness Predict In Vitro Fertilization Success. *Fertil Steril*. 2007;88:74-81.
11. Frattarelli JL et al. Surgical competence of OB/GYN residents performing microsurgical tubal anastomoses. *J Assist Reprod Genet*, 2007;24:53-6.
12. Frattarelli JL. A prospective analysis of the changes in ovarian morphology during hormonal pituitary suppression before in vitro fertilization. *Fertil Steril*. 2006;86:577-82.
13. Frattarelli JL et al. Basal and cycle androgen levels correlate with in vitro fertilization stimulation parameters but do not predict pregnancy outcome. *Fertil Steril*. 2006;86:51-7.
14. Frattarelli JL et al. Adjuvant therapy enhances endometrial receptivity in patients undergoing assisted reproduction. *Reprod Biomed Online*. 2006;12:722-9.
15. Frattarelli JL et al. Basal Ovarian Cysts and Clomiphene Citrate Ovulation Cycles. *Obstet Gynecol* 2006;107:1292-6.
16. Frattarelli JL et al. Prognostic use of mean ovarian volume in in vitro fertilization cycles: A prospective assessment. *Fertil Steril* 82:811-5, 2004.
17. Frattarelli JL et al. Characteristics of Baseline Ovarian Cysts in Clomiphene Citrate Ovulation Induction Cycles. *Fertil Steril* 82:979-81, 2004.
18. Frattarelli JL et al. Effect of Body Mass Index on In Vitro Fertilization Cycles. *J Assist Reprod Genet* 21:211-215, 2004.
19. Frattarelli JL et al. Effect of androgen levels on in vitro fertilization cycles. *Fertil Steril*. 81(6):1713-4, 2004.
20. Frattarelli JL. CREOG Resident Quiz – Uterine Anomaly. ACOG, Washington DC, 2004.
21. Frattarelli JL. CREOG Resident Quiz – Hydrosalpinges. ACOG, Washington DC, 2004.
22. Frattarelli JL. CREOG Resident Quiz – Asherman's Syndrome. ACOG, Washington DC, 2004.
23. Frattarelli JL. CREOG Resident Quiz – 5- $\alpha$ -Reductase Deficiency. ACOG, Washington DC, 2004.

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24. Frattarelli JL et al. A prospective assessment of the predictive value of basal antral follicles in in vitro fertilization cycles. *Fertil Steril* 80:350-355, 2003.
25. Frattarelli JL et al. Blastocyst Transfer Decreases Multiple Pregnancy Rates: A Prospective Randomized Study. *Fertil Steril* 79:228-230, 2003.
26. Frattarelli JL et al. A Novel Prospective Method of Determining Ovarian Size during *In Vitro Fertilization Cycles*. *J Assist Reprod Genet* 19:39-41, 2002.
27. Frattarelli JL et al. Intracytoplasmic Sperm Injection Increases Embryo Fragmentation Without Affecting Clinical Outcome. *J Assist Reprod Genet* 17:207-212, 2000.
28. Frattarelli JL et al. Evaluation of basal estradiol levels in assisted reproductive technology cycles. *Fertil Steril* 74:518-524, 2000.
29. Frattarelli JL et al. Basal antral follicle number and mean ovarian diameter predict cycle cancellation and ovarian responsiveness in assisted reproductive technology cycles. *Fertil Steril* 74:512-517, 2000.
30. Frattarelli JL et al. Workplace Hazards During Pregnancy. *Prim Care Update Ob/Gyns* 5:54-59, 1998.
31. Frattarelli JL et al. Bilateral transvaginal sacrospinous colpopexy. Preliminary experience. *Am J Obstet Gynecol* 177:1356-62, 1997.
32. Frattarelli JL. Ectopic Pregnancy: The Different Management Options. *Wyeth-Ayerst American College of Obstetricians and Gynecologists Papers*, 1996.
33. Frattarelli JL et al. Prenatal Diagnosis of Frontonasal Dysplasia –Median Cleft Face Syndrome. *J Ultrasound Med* 14:81-83, 1995.

### PUBLISHED ABSTRACTS

1. Frattarelli JL et al. A Luteal Estradiol Protocol for Poor-Responders Improves Embryo Number and Quality. Abstract of the Armed Forces District Meeting of the American College of Obstetrics and Gynecology. Louisville, KY, Oct. 28-31, 2007.
2. Frattarelli JL et al. IVF Poor Responders Have An Improved Live Birth Rate With A GnRH Antagonist Protocol Versus A GnRH Agonist Microdose Flare Protocol. Abstract of the Armed Forces District Meeting of the American College of Obstetrics and Gynecology. Louisville, KY, Oct. 28-31, 2007.
3. Frattarelli JL et al. The impact of paternal age on aneuploidy rates in first trimester pregnancy losses. Abstract of the 63<sup>rd</sup> Annual Meeting to the American Society for Reproductive Medicine. Washington D.C., Oct. 13-17, 2007.
4. Frattarelli JL et al. Metabolomic screening through long wave length near infrared biospectroscopy of spent embryo culture media predicts human embryonic reproductive potential - a prospective blinded study. Abstract of the 63<sup>rd</sup> Annual Meeting to the American Society for Reproductive Medicine. Washington D.C., Oct. 13-17, 2007.
5. Frattarelli JL et al. Male age negatively impacts embryo development and reproductive outcome in donor oocyte art cycles. Abstract of the 63<sup>rd</sup> Annual Meeting to the American Society for Reproductive Medicine. Washington D.C., Oct. 13-17, 2007.
6. Frattarelli JL et al. Does leutinizing hormone activity in the form of low dose HCG or HMG produce better outcomes for GNRH antagonist ART cycles stimulates with rFSH? Abstract of the 63<sup>rd</sup> Annual Meeting to the American Society for Reproductive Medicine. Washington D.C., Oct. 13-17, 2007.
7. Frattarelli JL et al. Low dose aspirin use does not improve ART outcomes in poor responders. Abstract of the 63<sup>rd</sup>

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Annual Meeting to the American Society for Reproductive Medicine. Washington D.C., Oct. 13-17, 2007.

8. Frattarelli JL et al. A luteal estradiol stimulation protocol improves embryo number and quality for poor-responders undergoing ART. Abstract of the 63<sup>rd</sup> Annual Meeting to the American Society for Reproductive Medicine. Washington D.C., Oct. 13-17, 2007.
9. Frattarelli JL et al. Anueploidy not gender impacts the developmental rate of IVF-derived human embryos as confirmed by day 3 blastomere biopsy and preimplantation genetic diagnosis. Abstract of the 63<sup>rd</sup> Annual Meeting to the American Society for Reproductive Medicine. Washington D.C., Oct. 13-17, 2007.
10. Frattarelli JL et al. The rate of embryonic progression is more important to implantation and pregnancy rates than the embryonic stage of transfer: A comparison of day 5 and day 6 blastocyst transfers. Abstract of the 63<sup>rd</sup> Annual Meeting to the American Society for Reproductive Medicine. Washington D.C., Oct. 13-17, 2007.
11. Frattarelli JL et al. Estradiol levels after human chorionic gonadotropins (hCG) administration are not predictive of IVF outcome: Analysis of 7,474 initial fresh IVF cycles. Abstract of the 63<sup>rd</sup> Annual Meeting to the American Society for Reproductive Medicine. Washington D.C., Oct. 13-17, 2007.
12. Frattarelli JL et al. Pre-ovulatory vs. ovulatory intrauterine insemination in controlled ovarian hyperstimulation cycles. Abstract of the 63<sup>rd</sup> Annual Meeting to the American Society for Reproductive Medicine. Washington D.C., Oct. 13-17, 2007.
13. Frattarelli JL et al. The risk of monozygotic twinning in an in vitro fertilization cycle (IVF) may be intrinsically related to oocyte quality. Abstracts of the 23<sup>rd</sup> Annual Meeting, Lyon, France July 1-4, 2007.
14. Frattarelli JL et al. The use of quantitative birefringence imaging to assess competence. Abstracts of the 23<sup>rd</sup> Annual Meeting, Lyon, France July 1-4, 2007.
15. Frattarelli JL et al. "The utility of serum leptin and follicular fluid leptin, estradiol, and progesterone concentrations in infertility patients undergoing IVF". The American Society for Reproductive Medicine Annual Meeting, New Orleans, LA., 2006.
16. Frattarelli JL et al. "The Rate of Embryonic Progression is More Important to Implantation and Pregnancy Rates than the Embryonic Stage of Transfer: A Comparison of Day 5 and Day 6 Blastocyst Transfers." The American Society for Reproductive Medicine Annual Meeting, Washington, DC. 2007.
17. Frattarelli JL et al. "Anueploidy Not Gender Impacts the Developmental Rate of IVF-Derived Human Embryos as Confirmed by Day 3 Blastomere Biopsy and Preimplantation Genetic Diagnosis." The American Society for Reproductive Medicine Annual Meeting, Washington, NJ DC., 2007.
18. Frattarelli JL et al. "Changes in Measured Endometrial Thickness Predict In Vitro Fertilization Success". The American Society for Reproductive Medicine Annual Meeting, New Orleans, LA., 2006.
19. Frattarelli JL et al. "The pre-cycle blind mock transfer is an inaccurate predictor of anticipated embryo transfer depth". The American Society for Reproductive Medicine Annual Meeting, New Orleans, LA., 2006.
20. Frattarelli JL et al. "A prospective assessment of the effect of body mass index on IVF outcome" Armed Forces District ACOG Annual Meeting, Seattle, WA. Oct. 2005.
21. Frattarelli JL et al. "A prospective assessment of the effects of baseline ovarian cysts on clomiphene citrate ovulation induction cycles" Armed Forces District ACOG Annual Meeting, Seattle, WA. Oct. 2005.
22. Frattarelli JL et al. "Surgical competence of OB/GYN residents performing microsurgical tubal anastomoses" Armed Forces District ACOG Annual Meeting, San Diego, TX, Oct. 2004.
23. Frattarelli JL et al. "Prognostic use of Mean Ovarian Volume in In Vitro Fertilization Cycles: A Prospective Assessment" Armed Forces District ACOG Annual Meeting, San Antonio, TX. Oct. 2003.

24. Frattarelli JL et al. "Basal Antral Follicle Number Predicts IVF Cycle Pregnancy, Cancellation, and Ovarian Responsiveness : A Prospective Study. The American Society for Reproductive Medicine Annual Meeting Seattle, WA. OCT 2002.
25. Frattarelli JL et al. "A Prospective Assessment of the Predictive Value of Basal Antral Follicles in *In Vitro Fertilization Cycles*" Armed Forces District ACOG Annual Meeting, Honolulu, HI.; Oct. 2002.
26. Frattarelli JL et al. "Effect of Body Mass Index on In Vitro Fertilization Cycles" Armed Forces District ACOG Annual Meeting, Honolulu, HI.; Oct. 2002.
27. Frattarelli JL et al. "Characteristics of Baseline Ovarian Cysts in Clomiphene Citrate Ovulation Induction Cycles" Armed Forces District ACOG Annual Meeting, Honolulu, HI.; Oct. 2002.
28. Frattarelli JL et al. "Effect of Changes in Androgen levels on In Vitro Fertilization Cycles" Armed Forces District ACOG Annual Meeting, Honolulu, HI.; Oct. 2002.
29. Frattarelli JL. "Incidence of baseline ovarian cysts in clomiphene citrate ovulation induction cycles." The American Society for Reproductive Medicine Annual Meeting, Orlando, FL.; Oct. 2001.
30. Frattarelli JL. "Leptin Affects GnRH and cAMP Secretion and Pulsatile Patterns: A Possible Mechanism for the Initiation of Puberty." Armed Forces District ACOG Annual Meeting, Norfolk, VA.; Oct. 2001.
31. Frattarelli JL et al. "A Novel Method of Determining Ovarian Size during *In Vitro Fertilization Cycles*." Society for Gynecologic Investigation Annual Meeting, Chicago, IL.; Mar. 2000.
32. Frattarelli JL et al. "Blastocyst Transfer Decreases Multiple Pregnancy Rates: A Prospective Randomized Study." The American Society for Reproductive Medicine Annual Meeting, San Diego, CA.; Oct. 2000.
33. Frattarelli JL et al. "Endometrial fluid visualized by ultrasound during ART cycles is associated with a reduction in clinical pregnancy rates." The American Society for Reproductive Medicine Annual Meeting, San Diego, CA.; Oct. 2000.
34. Frattarelli JL et al. "Elective single blastocyst transfer: A case series." The American Society for Reproductive Medicine Annual Meeting, San Diego, CA.; Oct. 2000.
35. Frattarelli JL et al. "Training providers in embryo transfer: The identification of a learning curve among reproductive endocrinology fellows." The American Society for Reproductive Medicine Annual Meeting, San Diego, CA; Oct. 2000.
36. Frattarelli JL et al. "Day 3 estradiol values are prognostic of IVF outcome." American Society for Reproductive Medicine Annual Meeting, Toronto, Canada; Sept. 1999.
37. Frattarelli JL et al. "Comparison of follicle stimulation preparations: Results of women undergoing GnRH-a down regulated IVF cycles." American Society for Reproductive Medicine Annual Meeting, Toronto, Canada; Sept. 1999.
38. Frattarelli JL et al. "Embryo developmental delay on day 5 results in decreased *in vitro fertilization* success." American Society for Reproductive Medicine Annual Meeting, Toronto, Canada; Sept. 1999.
39. Frattarelli JL et al. "Basal antral follicle number and ovarian size predict cycle cancellation and ovarian responsiveness in *in vitro fertilization*." American Society for Reproductive Medicine Annual Meeting, Toronto, Canada; Sept. 1999.
40. Frattarelli JL et al. "Evaluation of the prognostic significance of day 3 estradiol levels in *in vitro fertilization*." Armed Forces District ACOG Annual Meeting, San Antonio, TX. Oct. 1999.
41. Frattarelli JL et al. "Effect of Intracytoplasmic Sperm Injection on Embryo Quality" American Society for Reproductive Medicine Annual Meeting, San Francisco, CA. Oct, 1998.

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42. Frattarelli JL et al. "The Effect of Endometrial Pattern and Thickness on Clinical Pregnancy Rate" American Society for Reproductive Medicine Annual Meeting, San Francisco, CA. Oct, 1998.
43. Frattarelli JL et al. "Development of Blastocysts on Days 5 and 6 from non-transferred human embryos correlates with pregnancy." American Society for Reproductive Medicine, San Francisco Annual Meeting, CA. Oct, 1998.
44. Frattarelli JL et al. "Human pronuclear embryo morphology is a positive predictor for day 3 morphology, ability to grow to the blastocyst stage, and pregnancy outcome." American Society for Reproductive Medicine Annual Meeting, San Francisco, CA.; Oct, 1998.
45. Frattarelli JL et al. "Clinical Efficacy of Microdose Follicular Phase GnRH-a Protocol Compared to a Standard Luteal Phase GnRH-a Protocol for In Vitro Fertilization." Residents Research Day, Walter Reed Army Medical Center, Washington DC; May, 1997.
46. Frattarelli JL et al. "Bilateral Sacrospinous Ligament Fixation - A Literature Review and Case Series" Residents Research Day, Bethesda Naval Medical Center, Bethesda, MD., 1996 and Armed Forces District ACOG Annual Meeting, Nashville, TN.; Oct, 1996.
47. Frattarelli JL et al. "Bilateral Sacrospinous Ligament Fixation, Unilateral Sacrospinous Ligament Fixation, and Abdominal Sacral Colpopexy - A Literature Review of the Different Fixation Procedures" Armed Forces District ACOG Annual Meeting, San Diego, CA.: Oct, 1995.

INVITED LECTURES (not including lectures to Medical Students and Residents)

Outside Hospitals and Universities

1. "Reducing Infertility Patient Dropout ", San Francisco, CA, TX, 2008.
2. "Identifying Embryo Quality Markers", San Francisco, CA, 2008.
3. "Polycystic Ovarian Syndrome: Contemporary Treatment Strategies", Chilton Memorial Hospital, Pompton Plains, NJ, 2008.
4. "Identifying Embryo Quality Markers", Melville, NY, 2008.
5. "Recurrent Pregnancy Loss" Jersey Shore Medical Center, Neptune, NJ, 2008.
6. "Reducing Infertility Patient Dropout ", Houston, TX, 2008.
7. "Identifying Embryo Quality Markers", Huntington Station, NY , 2008.
8. "Assessing embryo competency"- JFK Medical Center, Edison, NJ, 2008.
9. "Novel methods of assessing embryo competency in IVF" Jersey Shore Medical Center, Neptune, NJ, 2008.
10. "Treatment of Endometriosis", 22<sup>nd</sup> Annual Issues & Controversies in Ob/GYN, Orlando, FL, Nov 2007.
11. "Polycystic Ovarian Syndrome: Novel Treatment Strategies", 22<sup>nd</sup> Annual Issues & Controversies in Ob/GYN, Orlando, FL, Nov 2007.
12. "Advanced Reproductive Diagnoses", Reproductive Health and the Treatment of Infertility-A program for nurses, Somerset, NJ, 2007.
13. "Pregnancy Outcomes in Assisted Reproductive Technologies ", Reproductive Health and the Treatment of Infertility-A program for nurses, Somerset, NJ, 2007.

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14. "Practical Management Philosophies: The Physicians Approach" Association of Reproductive Managers Seminar at The 63<sup>rd</sup> Annual Meeting to the American Society for Reproductive Medicine. Washington D.C., Oct. 13-17, 2007
15. "Pregnancy outcomes after ART", Saint Peter's University Hospital, New Brunswick, NJ, 2007.
16. "Normal and Abnormal Sexual Development", Saint Peter's University Hospital, New Brunswick, NJ, 2007.
17. "Primary and Secondary Amenorrhea", Saint Peter's University Hospital, New Brunswick, NJ, 2007.
18. "Endometriosis: The Painful Truth" Jersey Shore Medical Center, Neptune, NJ, 2007.
19. "The Male Biological Clock and new insights into male infertility"-WorldFAM meeting, The 23<sup>rd</sup> Annual Meeting of The European Society of Human Reproduction and Embryology (ESHRE), Lyon, France, 2007.
20. "Puberty-Normal and Abnormal"- JFK Medical Center, Edison, NJ, 2007.
21. "The journey through ART", Morristown Medical Center, Morristown, NJ, 2007.
22. "Assisted Reproductive Technologies and Embryo development", Saint Peter's University Hospital, New Brunswick, NJ, 2007.
23. "A primer on Assisted Reproductive Technologies", Columbia Laboratories, Livingston, NJ, 2007.
24. "Normal reproduction", Reproductive Health and the Treatment of Infertility-A program for nurses, Morristown, NJ, 2007.
25. "Advanced Reproductive Diagnoses", Reproductive Health and the Treatment of Infertility-A program for nurses, Morristown, NJ, 2007.
26. "PCOS- Current recommendations and therapy" Somerset Medical Center, Somerville, NJ, 2006.
27. "Intersex disorders" Saint Peter's University Hospital, New Brunswick, NJ, 2006.
28. "Recurrent Pregnancy Loss: The Latest Recommendations" Saint Peter's University Hospital, New Brunswick, NJ, 2006.
29. "Recurrent Pregnancy Loss: An evidence-based approach" Somerset Medical Center, Somerville, NJ, 2006.
30. "Endometriosis: The Painful Truth" Robert Wood Johnson Medical School, UMDNJ, New Brunswick, NJ, 2006.
31. "Physiology of Reproductive Hormones", Tripler Army Medical Center OB/GYN Nursing course, Honolulu, HI, 2006.
32. "Overview of Infertility", Tripler Army Medical Center OB/GYN Nursing course, Honolulu, HI, 2006.
33. "Congenital Reproductive Anomalies", Department of Pediatrics, Tripler Army Medical Center, Honolulu, HI, 2005.
34. "Overview of Infertility", Tripler Army Medical Center OB/GYN Nursing course, Honolulu, HI, 2005.
35. "Infertility Therapy and Laboratory Diagnosis", Department of Pathology, Tripler Army Medical Center, Honolulu, HI, 2005.
36. "New diagnostic criteria and treatment options for women with Polycystic Ovarian Syndrome", Kapi'olani Medical Center for Women and Children, Honolulu, HI, 2004.
37. "Overview of Infertility", Tripler Army Medical Center OB/GYN Nursing course, Honolulu, HI, 2004.

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38. "WHI and HRT: The Truth about Hormones" Hawaii Section, American College of Obstetricians and Gynecologists, Kauai, HI, 2003.
39. "Recurrent Pregnancy Loss: A Literature-Based Assessment" Hawaii Section, American College of Obstetricians and Gynecologists, Kauai, HI, 2003.
40. "Recurrent Pregnancy Loss: The Latest Recommendations" National Naval Medical Center, Bethesda, MD, 2003.
41. "Diagnosis and Management of Diminished Ovarian Reserve" The American Society for Reproductive Medicine Annual Meeting, San Antonio, TX, 2003.
42. "Current recommendations on HRT based on the WHI study", Blanchfield ACH, Fort Campbell, KY, 2003.
43. "Overview of Infertility", Tripler Army Medical Center OB/GYN Nursing course, Honolulu, HI, 2003.
44. "Hirsutism: Current recommendations and therapy", Kapi'olani Medical Center for Women and Children, Honolulu, HI, 2003.
45. "Endometriosis: A review of the evidence", Kapi'olani Medical Center for Women and Children, Honolulu, HI, 2002.
46. "Overview of Infertility", Tripler Army Medical Center OB/GYN Nursing course, Honolulu, HI, 2002.
47. "Endometriosis- What is the data in 2002" Kaiser Medical Center, Honolulu, HI, 2002.
48. "Overview of Infertility", Tripler Army Medical Center OB/GYN Nursing course, Honolulu, HI, 2001.
49. "Infertility diagnosis and treatment", Department of Family Practice, Schofield Barracks, Honolulu, HI, 2001. "
50. Overview of Infertility", Tripler Army Medical Center OB/GYN Nursing course, Honolulu, HI, 2000.
51. "Infertility and Assisted Reproduction", Department of Family Practice, Tripler Army Medical Center, Honolulu, HI, 2000.
52. "Recurrent Spontaneous Abortions", Department of Obstetrics and Gynecology, Fort Bragg, NC, 1999.
53. "Clomiphene Citrate use and abuse", Department of Obstetrics and Gynecology, Fort Bragg, NC, 1998.