

CURRICULUM VITAE – Richard P. Buyalos, MD



Dr. Buyalos is Co-Director of Fertility & Surgical Associates of Southern California (FSAC), and is board certified in reproductive endocrinology & infertility (REI), and in general obstetrics & gynecology. He is a Fellow of the American College of Obstetricians and Gynecologists, and serves as an Adjunct Clinical Professor in the department of obstetrics and gynecology Heersink School of Medicine at the University of Alabama at Birmingham.. He is also the President of the Foundation for Research and Education Excellence. Dr. Buyalos is internationally recognized for his work in infertility, reproductive aging, and polycystic ovary syndrome, and has received numerous awards from various organizations including Best Doctors in

America; Los Angeles Magazine; Pacific Coast Reproductive Society; Consumers' Research Council of America; RESOLVE, and the American Society of Reproductive Medicine. Dr. Buyalos received his B.S. from the University of Maryland and his M.D. from Thomas Jefferson University Medical College. He completed his residency at Georgetown University Medical Center and his clinical fellowship in reproductive endocrinology at the University of California, Los Angeles School of Medicine.

CONTACT

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EDUCATION

Fellowship:

Reproductive Endocrinology & Infertility (REI) Fellow-University of California, Los Angeles (UCLA), Dept. of Obstetrics and Gynecology, Los Angeles, CA, 1987-89

Postgraduate Training:

Ob/Gyn Residency - Georgetown University Hospitals, Dept. of Obstetrics and Gynecology Washington, D.C.

Intern, 1983-84; Resident, 1984-87; incl. serving as Administrative Chief Resident, 1986-87

Medical School:

Thomas Jefferson University Medical College, Philadelphia, PA, 1979-83; Earned M.D. degree in 1983

Undergraduate:

University of Maryland College Park, MD, 1974-79; Earned B.S. Clinical Psychology degree in 1979, *Magna Cum Laude*

CERTIFICATIONS & LICENSURES

- Diplomate of National Board of Medical Examiners, 1983
- American Board of Obstetrics and Gynecology, Inc. (ABOG) - Certified in General Obstetrics and Gynecology, 1990 (recertified through 2016)
- American Board of Obstetrics and Gynecology, Inc. (ABOG) - Certified in REI, 1991 (recertified through 2016)
- State of California G-060146 Medical License

ACADEMIC APPOINTMENTS

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|--------------|--|
| 2024-Present | Clinical Professor, Dept. of Obstetrics & Gynecology, Heersink School of Medicine, University of Alabama at Birmingham, Birmingham, AL |
| 2017-2023 | Clinical Professor, Dept. of Obstetrics & Gynecology, David Geffen School of Medicine, UCLA, Los Angeles, CA |
| 1998-2017 | Associate Clinical Professor, Dept. of Obstetrics & Gynecology, David Geffen School of Medicine, UCLA, Los Angeles, CA |
| 1996-98 | Associate Professor; Chief, Division of REI; Director, REI Fellowship Training Program, Dept. of Obstetrics & Gynecology, University of Kentucky School of Medicine, Lexington, KY |
| 1989-96 | Assistant Professor, Dept. of Obstetrics & Gynecology, School of Medicine, UCLA, Los Angeles, CA |

HOSPITAL APPOINTMENTS & SERVICE

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|-------------------|---|
| 1999-Present | Los Robles Regional Medical Center, Thousand Oaks, CA; Active Staff |
| 1999-Present | Community Memorial Hospital, Ventura, CA; Active Staff |
| 1989-96 & 98-2023 | UCLA Medical Center, Westwood, CA; Active Staff <ul style="list-style-type: none">• Postgraduate Education Advisory Committee, 1991-93• Medical Records Committee, 1990-94• Hospital Utilization Committee, 1995-96• Department Resident Selection Committee, 1992-94• Clinical Fellow Selection Committee, 1989-96, 2000-Present |
| 1998-2012 | Kaiser Permanente Med. Center, Woodland Hills, CA; Active Staff |

- 1996-98 University of Kentucky Medical Center; Active staff
- Resident Selection Committee, 1997-98
 - Executive Council Committee, 1997-98

COMMUNITY SERVICE

- Volunteer Physician, Venice Family Health Clinic, Venice, CA, 1993-1996
- Founder & CEO, Fertility Council, LLC (www.womensview.com, Fertility Council, LLC, Los Angeles, CA), a hub of online tools, globally branded as 'which provides individuals with the scientific information they require to make informed decisions free of charge.
- President, Foundation for Research and Education Excellence, a non-profit dedicated to promoting research, inquiry, education, and advancement in the fields of biomedicine, higher education, and in creativity and discovery in general (www.foundation-free.org).

PROFESSIONAL SOCIETY MEMBERSHIP

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|-------------------------|--------|---|
| 2002-present | Member | Androgen Excess & PCOS Society, Inc. |
| 1989-96, & 2000-Present | Member | LA County Medical Association |
| 1991-present | Fellow | American College of Obstetricians and Gynecologists, Inc. |
| 1990-present | Member | Daniel Morton Ob/Gyn Society (UCLA) |
| 1983-present | Member | American Medical Association |
| 1987-present | Member | American Society for Reproductive Medicine |
| 1997-present | Member | Society of Reproductive Surgeon |
| 1994-present | Member | John T. Queenan Ob/Gyn Soc. (Georgetown U.). |
| 1991-present | Member | Society of Reproductive Endocrinologists |
| 1990-present | Member | Pacific Coast Reproductive Society |
| 1991-present | Member | The Endocrine Society |
| 1994-present | Member | Society for the Study of Reproduction |
| 1990-present | Member | RESOLVE |
| 1990-96 | Member | LA Ob-Gyn Society |

PROFESSIONAL SOCIETY SERVICE

- American Society for Reproductive Medicine (ASRM)
 - Member, Government & Public Relations Committee, ASRM, 1999-2001
 - Member, Patient Education Committee, ASRM, 1994-1998
 - Chair, Poster Committee for the 53th annual meeting of the ASRM Cincinnati, OH, Oct. 8-22, 1997
 - Member, Society of Reproductive Surgeons Representative on the ASRM Government and Public Relations Committee, 2000-2002
 - Moderator, Reproductive Surgery Abstract Session for the 59th annual meeting of the ASRM San Antonio, TX, 2003
 - Moderator, Cryopreservation and Frozen Embryo Transfer Abstract Session for the 60th annual meeting of the ASRM Philadelphia, PA, 2004

- Member, 2006 ASRM Annual Meeting Abstract Committee, representing the Society for Reproductive Surgeons
- American College of Obstetricians & Gynecologists (ACOG)
 - PROLOG Task Force for Reproductive Endocrinology and Infertility, 4th edition, 1998-1999
 - Chairman, District of Columbia Section (1985-86), and Vice-Chairman, District of Columbia Section (1984-85), Junior Fellows

EDITORIAL AND PEER-REVIEW SERVICE

- Member, Editorial Advisory Board, Fertility & Sterility (pub. ASRM), 2004-06
- Ad Hoc reviewer for:
 - Obstetrics and Gynecology
 - Fertility & Sterility
 - The Journal of Clinical Endocrinology and Metabolism
 - Human Reproduction
 - American Journal of Obstetrics and Gynecology
 - Journal of Gynecologic Techniques
 - Journal of Pediatric and Adolescent Gynecology

MISCELLANEOUS CONSULTING EXPERIENCE:

- Roche Pharmaceuticals Advisory Panel on use of AMH to monitor and manage female ovarian reserve, 2011-13.
- Medical consultant to CBS for "Baby of the Bride", Leonard Hill Productions; Director, Bill Bixby, 1990
- Medical consultant, Universal Studios for "Junior"; Director, Ivan Reitman, 1992
- Medical consultant numerous lay publications and television networks
- Gastrointestinal Drugs Advisory Committee, Food and Drug Administration (FDA), 2000
- Westwood-Squibb Pharmaceuticals Investigators'/Advisory Board, Eflornithine HCl, 2000

HONORS AND AWARDS:

- Dean's List, University of Maryland, College Park, 1974-78
- Phi Kappa Phi Honor Society, 1978-Present
- Psi Chi Honor Society, 1978
- Phi Eta Sigma Honor Society, 1975
- Delta Tau Delta Fraternity Outstanding Scholar Award, 1978
- Outstanding Resident in Gynecologic Endoscopy Award; American Association of Gynecologic Laparoscopists, 1987
- Prize Poster Award, 45th Annual Meeting of the American Fertility Society, San Francisco, CA, Nov. 11-16, 1989.
- Prize Poster Award, 50th Annual Meeting of The American Fertility Society, San Antonio, TX, Nov. 5-10, 1994.
- Best Doctors for Women, *Good Housekeeping magazine*, 1997

- National Faculty Award for Excellence in Resident Education from the Council on Resident Education in Obstetrics and Gynecology (CREOG), 1999
- Resident Teaching award, Kaiser Permanente, Los Angeles, 1999
- Star of RESOLVE award, Southwest Region, Resolve, Inc., 2007
- Best Doctors of America, Best Doctors, Inc., 2009-Present
- Super Doctors-Top Southern California Physicians, *Los Angeles Magazine*, 2011-Present
- America's Top Obstetricians & Gynecologists, *Consumer Research Council of America*, 2012
- Joyce M. Vargyas, M.D. Visionary Award, Path2Parenthood (formerly The American Fertility Association), 2012

RESEARCH GRANTS RECEIVED:

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| Source of support: | Organon |
| Project Title: | A Randomized, Open-label Clinical Trial to Identify Predictive Factors for Controlled Ovarian Stimulation Using a Fixed Daily Dose of 200 IU of Recombinant FSH in a GnRH Antagonist Regimen With or Without Oral Contraceptive Scheduling |
| Principal Investigator: | RP Buyalos |
| Amount: | \$282,000 |
| Years of award: | 2007-08 |
| Role: | PI |

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| Source of support: | Institut Biochimique SA (IBSA) |
| Project Title: | Efficacy and Tolerability of Subcutaneous Progesterone (IBSA) versus Vaginal Progesterone (Endometrin) for Luteal Phase Support in Patients Undergoing In-Vitro Fertilization |
| Principal Investigator: | RP Buyalos, G Hubert, A Kumar |
| Amount: | \$316,500 |
| Years of award: | 2008-09 |
| Role: | Co-PI |

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| Source of support: | EMD Serono |
| Project Title: | Determination of the Viability of an Oocyte Vitrification Protocol Using Donor Ova |
| Principal Investigator: | RP Buyalos, A Kumar |
| Amount: | \$23,400 |
| Years of award: | 2009-10 |
| Role: | Co-PI |

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| Source of support: | University of California at Los Angeles (UCLA) Academic Senate Training Grant |
| Project Title: | The Impact of Interleukin-6 on Preimplantation Embryo Development |
| Principal Investigator: | RP. Buyalos |
| Amount: | \$3,000 |
| Years of award: | 1989-1990 |
| Role: | PI |

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| Source of support: | University of California at Los Angeles (UCLA) Department of Ob/Gyn |
| Project Title: | Interleukin-6 Activity in Human Follicular Fluid |
| Principal Investigator: | \$7,940 |
| Amount: | RP. Buyalos |
| Years of award: | 1989-1990 |
| Role: | PI |

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| Source of support: | National Institutes of Health HL40273 |
| Project Title: | Postmenopausal Estrogen and Progesterone Intervention (PEPI) |
| Principal Investigator: | Howard L. Judd |
| Amount: | \$2,078,505 |
| Years of award: | 1989-93 |
| Role: | Consultant |

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| Source of support: | University of Kentucky Intramural Research Funds |
| Project Title: | The Heterogeneity of Follicle-Stimulating Hormone Isoforms in the Assessment of Human Reproductive Aging |
| Principal Investigator: | RP. Buyalos |
| Amount: | \$150,000 |
| Years of award: | 1996-1999 |
| Role: | PI |

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| Source of support: | Research MRI Center Pilot Project Grant Award |
| Project Title: | Reproductive Endocrine Changes and Aging; using MRI to Evaluate Ovarian Volume |
| Principal Investigator: | RP. Buyalos |
| Amount: | \$4,400 |
| Years of award: | 1997-1998 |
| Role: | PI |

SELECTED TRAINEES/MENTEES

- **Sanjay Agarwal, MD**-UCLA REI fellow; was his mentor and helped him plan, organize and write his initial publications and was his mentor for clinical care in REI; 1991-93.
- **Peter Brzechffa, MD** - UCLA REI fellow; was his mentor and helped him plan, organize and write his initial publication and taught him clinical care. 1994-95.
- **Said Daneshmand, MD** - UCLA Ob/Gyn resident and REI fellow; was his mentor and helped him plan, organize and write his first REI publication and taught him clinical care; 1995-98.
- **Timothy Gelety, MD** - UCLA REI fellow; was his mentor and helped him plan, organize and write his initial publications and was his mentor for clinical care in REI; 1990-92.
- **Terrance Lee, MD** - UCLA REI fellow; was his mentor and helped him plan, organize and write his first REI publication and was his mentor for clinical care in REI; 1993-95.
- **Meike Uhler, MD** - UCLA REI fellow; was her mentor and helped her plan, organize and write her first publication and taught her clinical care; 1992-94.
- **Anthony Pearlstone, MD** - UCLA REI fellow; was his mentor and helped him plan, organize and write his first REI publication and was his mentor for clinical care in REI; 1990-92
- **Kristin Smith, MD** - UCLA REI fellow; was her mentor and helped her plan, organize and write his first publication in REI and taught her clinical care; 1993-95.
- **Paul Magarelli, MD, PhD** - UCLA REI fellow; was his mentor and helped him plan, organize and write his first REI publication and was his mentor for clinical care in REI; 1991-93.
- **Robert Cooke, MD** - University of Kentucky REI fellow; was his mentor and helped him plan, organize and write his first publications and was mentor for clinical care in REI; 1996-98.
- **Andy Huang, MD** - UCLA Ob/Gyn resident; mentored during residency and ultimately became a UCLA REI fellow; 2005.
- **Shahin Ghadir, MD** - Ob/Gyn resident, Kaiser Permanente; mentored during residency and ultimately became a UCLA REI fellow; 2003-05.
- **Christopher Huang, MD** - UCLA REI fellow; mentored and taught him clinical care; 1994-96.

BIBLIOGRAPHY (H-index = 20)

Peer-Review Publications:

1. PEKONEN F, LAATIKAINEN T, **BUYALOS RP**, RUTANEN E-M. Decreased 34K insulin-like growth factor binding protein in polycystic ovarian disease. Fertil Steril. 1989;51:972-5 (PMID: 2542098).
2. **BUYALOS RP**, RUTANEN E-M, TSUI E, HALME J. Release of tumor necrosis factor alpha by human peritoneal macrophages in response to toxic shock syndrome toxin-1. Obstet Gynecol. 1991;78:182-6 (PMID: 2067760).
3. **BUYALOS RP**, BRADLEY EL, JUDD HL, ZACUR HA, AZZIZ R. No acute effect of physiological insulin increase on dehydroepiandrosterone sulfate in women with obesity and/or polycystic ovarian disease. Fertil Steril. 1991;56:1179-82 (PMID: 1835937).

4. **BUYALOS RP**, GEFFNER ME, BERSCH N, JUDD HL, WATANABE RM, BERGMAN RN, GOLDE DW. Insulin and insulin-like growth factor-I responsiveness in polycystic ovarian syndrome. *Fertil Steril*. 1992;57:796-803 (PMID: 1555690).
5. **BUYALOS RP**, GLASSMAN LM, RIFKA SM, FALK RJ, MACARTHY PO, TYSON VJ, DIMATTINA M. Serum Beta-hCG, estradiol and progesterone as early predictors of pathologic pregnancy. *J Reprod Med*. 1992;37:261-6 (PMID: 1373448)
6. **BUYALOS RP**, WATSON JM, MARTINEZ-MAZA O. Detection of interleukin-6 in human follicular fluid. *Fertil Steril*. 1992;57:1230-4 (PMID: 1601144)
7. **BUYALOS RP**, FUNARI VA, AZZIZ R, WATSON JM, MARTINEZ-MAZA O. Elevated interleukin-6 levels in peritoneal fluid of patients with pelvic pathology. *Fertil Steril*. 1992;58:302-6 (PMID: 1633894).
8. PEARLSTONE AC, FOURNET N, GAMBONE JC, PANG S, **BUYALOS RP**. Ovulation induction in women age 40 and older: the importance of basal follicle-stimulating hormone levels and chronological age. *Fertil Steril*. 1992;58:674-9 (PMID: 1426308).
9. WU TC, GELETY T, JIH M, FOURNET N, **BUYALOS RP**. Successful management of predicted severe ovarian hyperstimulation syndrome with gonadotropin-releasing hormone agonist. *J Asst Reprod Genet*. 1992;9:281-6 (PMID: 1525462).
10. **BUYALOS RP**, GEFFNER ME, WATANABE RM, BERGMAN RN, GORNBEIN JA, JUDD HL. The influence of luteinizing hormone and insulin on sex steroids and sex hormone-binding globulin in the polycystic ovarian syndrome. *Fertil Steril*. 1993;60:626-33 (PMID: 8405515).
11. GELETY TJ, **BUYALOS RP**. The effect of clomiphene citrate and menopausal gonadotropins on cervical mucus in ovulatory cycles. *Fertil Steril*. 1993;60:471-6 (PMID: 8375529).
12. **BUYALOS RP**, CAI X. Preimplantation embryo development enhanced by epidermal growth factor. *J Assist Reprod Genet*. 1994;11:33-7 (PMID: 7949833).
13. AGARWAL SK, COE S, **BUYALOS RP**. The influence of uterine position on pregnancy rates with in vitro fertilization - embryo transfer. *J Asst Reprod Genet*. 1994;11:323-4 (PMID: 7734920).
14. The Writing Group for the PEPI Trial: Effects of estrogen and estrogen/progestin regimens on heart disease risk factors in postmenopausal women. *JAMA* 1995;273:199-208 (PMID: 7807658).
15. **BUYALOS RP**. Insulin-like growth factors: Clinical experience in ovarian function. *Am J Med* 1995;98:55S-66S (PMID: 7529965).
16. **BUYALOS RP**. The role of follicle-stimulating hormone in infertility therapy. *Assist Reprod Rev*. 1995;5:45-52.
17. AGARWAL S, **BUYALOS RP**. Corpus luteum function and pregnancy rates with clomiphene citrate therapy: comparison of human chorionic gonadotropin induced versus spontaneous ovulation. *Human Reprod*. 1995;10:328-31 (PMID: 7769057).
18. **BUYALOS RP**, PEKONEN F, HALME J, JUDD H, RUTANEN E. The relationship between circulating androgens, obesity and hyperinsulinemia on serum insulin-like growth factor

- binding protein-1 in the polycystic ovarian syndrome. *Am J Obstet Gynecol.* 1995;172:932-9 (PMID: 7534449).
19. UHLER M, **BUYALOS RP**. The effect of varying inseminating sperm concentrations in male-factor and non-male factor infertility in human *in vitro* fertilization. *Int J Fertil.* 1995;40:322-8 (PMID: 8748923)
 20. GELETY TJ, **BUYALOS RP**. The influence of supraphysiologic estradiol levels in human nidation. *J Asst Reprod Genet.* 1995;12:406-12 (PMID: 8574066)
 21. The Writing Group for the PEPI Trial: Effect of hormone replacement on endometrial histology in postmenopausal women. *JAMA* 1996;275:370-5 (PMID: 8569016).
 22. The Writing Group for the PEPI Trial: Effect of hormone therapy on bone mineral density. *JAMA* 1996;276:1389-96 (PMID: 8892713).
 23. SMITH KE, **BUYALOS RP**. The profound impact of patient age on pregnancy outcome after early detection of fetal cardiac activity. *Fertil Steril.* 1996;65:35-40 (PMID: 8557152).
 24. **BUYALOS RP**, LEE CT. Polycystic ovary syndrome: pathophysiology and outcome with in vitro fertilization. *Fertil Steril.* 1996;65:1-10 (PMID: 8557121).
 25. **BUYALOS RP**, LEE CT. Response to 'Letter to the Editor' "Albumin for Ovarian Hyperstimulation?" re article 'Polycystic ovary syndrome: pathophysiology and outcome with in vitro fertilization'. *Fertil Steril.* 1996;66:173-4 (PMID: 8752638).
 26. AGARWAL SK, **BUYALOS RP**. Clomiphene citrate with intrauterine insemination: is it effective therapy in women above the age of 35 years? *Fertil Steril.* 1996;65:759-63 (PMID: 8654635).
 27. MAGARELLI PC, PEARLSTONE AC, **BUYALOS RP**. Discrimination between chronological and ovarian age in infertile women aged 35 years and older: predicting-pregnancy using basal follicle stimulating hormone, age and number of ovulation induction/intra-uterine insemination cycles. *Hum Reprod.* 1996;11:1214-9 (PMID: 8671426).
 28. BRZECHFFA PR, JAKIMIUK AJ, AGARWAL SK, WEITSMAN SR, **BUYALOS RP**, MAGOFFIN DA. Serum immunoreactive leptin concentrations in women with polycystic ovary syndrome. *J Clin Endocrinol Metab.* 1996;81:4166-9 (PMID: 8923878).
 29. BRZECHFFA PR, **BUYALOS RP**. Female and male partner age and menotrophin requirements influence pregnancy rates with human menopausal gonadotrophin therapy in combination with intrauterine insemination. *Hum Reprod.* 1997;12:29-33 (PMID: 9043897).
 30. **BUYALOS RP**, GEFFNER ME, AZZIZ R, JUDD HL. Impact of overnight dexamethasone suppression on the adrenal androgen response to an oral glucose tolerance test in women with and without polycystic ovary syndrome. *Hum Reprod.* 1997;12:1138-41 (PMID: 9221990).
 31. COOKE RG, **BUYALOS RP**. Sequential clomiphene citrate and human menopausal gonadotropin therapy for ovulation induction therapy and assisted reproductive techniques. *Assist Reprod Rev.* 1997;7:58-63.
 32. **BUYALOS RP**, GRICE JE, JACKSON RV, HOCKINGS GI, THORPY DJ, FOX LM, BOOTS LR, AZZIZ R. Androgen response to hypothalamic-pituitary-adrenal stimulation with naloxone

- patients with myotonic muscular dystrophy. *J Clin Endocrinol Metab.* 1998;83:3219-24 (PMID: 9745431).
33. BRZECHFFA PR, DANESHMAND S, **BUYALOS RP**. Sequential clomiphene citrate and human menopausal gonadotrophin with intrauterine insemination: the effect of patient age on clinical outcome. *Hum Reprod.* 1998;13:2110-4 (PMID: 9756279)
 34. **BUYALOS RP**, DANESHMAND ST, BRZECHFFA PR. Basal estradiol and follicle-stimulating hormone predict fecundity in women of advanced reproductive age undergoing ovulation induction therapy. *Fertil Steril.* 1997;68:272-7 (PMID: 9240255).
 35. **BUYALOS RP**, GHOSH K, DANESHMAND ST. Infertile women of advanced reproductive age. Variability of day 3 FSH and E2 levels. *J Reprod Med.* 43:1023-6, 1998 (PMID: 9883405).
 36. **BUYALOS RP**, AGARWAL SK. Endometriosis-associated infertility. *Curr Opin. Obstet Gynecol.* 2000;12:377-81 (PMID: 11111879).
 37. GASS MS, REBAR RW, CUFFIE-JACKSON C, CEDARS MI, LOBO RA, SHOUPPE D, JUDD HL, **BUYALOS RP**, CLISHAM PR. A short study in the treatment of hot flashes with buccal administration of 17-beta estradiol. *Maturitas* 2004;49:140-7 (PMID: 15474758).
 38. KAING A, KROENER L, TASSIN R, LI M, **BUYALOS RP**, HUBERT G, SHAMONKI M. Earlier day of blastocyst development is predictive of embryonic euploidy across all ages: Essential data for physician decision-making and counseling patients. *J Assist Reprod Genet.* 2017;35:119-125 (PMID: 28894983)
 39. SUNDHEIMER LW, **BUYALOS RP**, HUBERT G, LIU L, AL-SAFI Z, SHAMONKI M. Diagnosis of parental balanced reciprocal translocations by trophoctoderm biopsy and comprehensive chromosomal screening. *J Assist Reprod Genet.* 2017;35:165-169 (PMID: 2890074).
 40. ZORE T, KROENER LL, WANG C, LIU L, **BUYALOS R**, HUBERT G, SHAMONKI M. Transfer of embryos with segmental mosaicism is associated with a significant reduction in live-birth rate. *Fertil Steril.* 2019;111:69-76 (PMID: 30424882).
 41. HOYOS LR, CHENG CY, BRENNAN K, HUBERT G, WANG B, **BUYALOS RP**, QUINN M, SHAMONKI M. Euploid rates among oocyte donors: is there an optimal age for donation? *J Assist Reprod Genet.* 2020;37:589-594 (PMID: 31955339).
 42. RIESTENBERG C, JAGASIA A, MARKOVIC D, **BUYALOS RP**, AZZIZ R. Health Care-Related Economic Burden of Polycystic Ovary Syndrome in the United States: Pregnancy-Related and Long-Term Health Consequences. *J Clin Endocrinol Metab.* 2022;107:575-85 (PMID: 34546364).
 43. BERGER M, PATEL H, **BUYALOS R**, HUBERT G, WANG C, SHAMONKI M, QUINN M. Estradiol to progesterone ratio is not a predictor of oocyte maturity at time of ovulation trigger. *J Assist Reprod Genet.* 2022;39:1667-72 (PMID: 35672539).
 44. **BUYALOS RP JR**, HUBERT GD, SHAMONKI MI. The mystery of optimal endometrial thickness...never too thick, but when is thin...too thin? *Fertil Steril.* 2022;117:801-2 (PMID: 35367016).
 45. YADAV S, DELAU O, BONNER A, MARKOVIC D, PATTERSON W, OTTEY S, **BUYALOS RP**, AZZIZ R. Direct Economic Burden of Mental Health Disorders Associated with Polycystic Ovary Syndrome: Systematic Review and Meta-analysis. *Elife.* 2023 Aug 3;12:e85338. doi: 10.7554/eLife.85338 (PMID: 37534878).

46. EZEH U, CHEN YDI, PALL M, **BUYALOS RP**, CHAN J, PISARSKA M, AZZIZ R. Alterations in NEFA trafficking rather than hyperandrogenism contribute to metabolic health in obese women with PCOS. *Fertil Steril*. 121(6):1040-1052 (PMID: 38307453).
47. AMIRI M, HATOUM S, HOPKINS D, **BUYALOS RP**, EZEH U, PACE LA, BRIL F, SHEIDAEI A, AZZIZ R. The Association Between Obesity and Polycystic Ovary Syndrome: An Epidemiologic Study of Observational Data. *J Clin Endocrinol Metab*. 2024;109(10):2640-2657 (PMID: 39078989).

Submitted/in review

1. AMIRI M, HATOUM S, HOPKINS D, **BUYALOS RP**, EZEH U, PACE LA, BRIL F, SHEIDAEI A, AZZIZ R. Does obesity drive the development of polycystic ovary syndrome? An epidemiologic study.
2. HATOUM S, AMIRI M, HOPKINS D, **BUYALOS RP**, BRIL F, AZZIZ R. Prevalence of polycystic ovary syndrome in health system and insurer records: evidence for the significant underdetection of PCOS.

Book Chapters/Reviews:

1. **BUYALOS RP**, GAMBONE JC: In vitro fertilization for oligospermia. In: Common Problems in Infertility and Impotence. Vol. 1, 153-160. Eds. Rajfer J, Yearbook Medical Publishers, 1990.
2. **BUYALOS RP**. Puberty and precocious puberty. In: Essentials of Obstetrics and Gynecology. 2nd Edition, p. 511-521. Eds. Hacker NF, Moore JG, W.B. Saunders Company Publishers, 1992.
3. **BUYALOS RP**. Principles of endoscopic optics and lighting. In: Practical Manual of Operative Laparoscopy and Hysteroscopy. p. 15-21. Eds. Azziz R, Murphy AA, Springer-Verlag, Inc., 1992.
4. **BUYALOS RP**. Principles of endoscopic laser surgery. In: Practical Manual of Operative Laparoscopy and Hysteroscopy. p. 39-46. Eds. Azziz R, Murphy AA, Springer-Verlag, Inc., 1992.
5. **BUYALOS RP**. Insulin-like growth factor binding proteins in disorders of androgen excess. In: Seminars in Reproductive Endocrinology. Thieme Medical Publishers, Inc., (Ed) Azziz R, Vol. 12 (1), p 21-25, 1994.
6. **BUYALOS RP**. Principles of endoscopic optics and lighting. In: Practical Manual of Operative Laparoscopy and Hysteroscopy. p. 23-31. 2nd edition, Eds. Azziz R, Murphy AA, Springer-Verlag, Inc., 1996.
7. **BUYALOS RP**. Principles of endoscopic laser surgery. In: Practical Manual of Operative Laparoscopy and Hysteroscopy. p. 40-48. 2nd edition, Eds. Azziz R, Murphy AA, Springer-Verlag, Inc., 1996.
8. **BUYALOS RP**, SCOTT RT, SEIFER DB. Infertility after 35: diagnostic strategies. *OBG Management* 8:46-54, 1996.
9. **BUYALOS RP**, SCOTT RT, SEIFER DB. Infertility after 35: treatment strategies. *OBG Management* 8:55-61, 1996.

10. **BUYALOS RP.** Puberty and disorders of pubertal development. In: Essentials of Obstetrics and Gynecology, 3rd Edition, p. 567-579. Eds. Hacker NF, Moore JG, W.B. Saunders Company Publishers, 1998.
11. **BUYALOS RP.** Puberty and disorders of pubertal development. In: Essentials of Obstetrics and Gynecology, 4th Edition, p. 345 - 354. Eds. Hacker NF, Moore JG, W.B. Saunders Company Publishers, 2004.
12. **BUYALOS RP.** Book review on 'Ovulation Induction and Controlled Ovarian Stimulation, A Practical Guide'. Fertil Steril 86:778, 2006.
13. PISARSKA M, ALEXANDER CJ, AZZIZ R, **BUYALOS RP.** Puberty and disorders of pubertal development. In: Essentials of Obstetrics and Gynecology, 5th Edition, p. 345-354. Eds. Hacker NF, Moore JG, W.B. Saunders Company Publishers, 2010.

Other:

1. **BUYALOS RP.** Educational audiotape, "Polycystic ovary syndrome", Interlink Productions, New York, New York, 1998

Abstracts:

1. **BUYALOS RP**, GLASSMAN LM, RIFKA SM, FALK RJ, MACARTHY PO, TYSON VJ, DIMATTINA M. Hormonal and sonographic markers as early predictors of pathological pregnancies. 44th Annual Meeting of the American Fertility Society, Atlanta, GA, Oct. 10-13 1988, abstract #031.
2. **BUYALOS RP**, GAMBONE JC, GEFFNER ME, JUDD HL. Insulin and androgen responses to oral and IV glucose challenges in polycystic ovarian disease. 35th Annual Meeting of the Society for Gynecologic Investigation, Baltimore, MD, March 17-20, 1988, abstract #387.
3. **BUYALOS RP**, GEFFNER ME, GAMBONE JC, BERSCH N, BERGMAN RN, JUDD HL. Insulin resistance in polycystic ovarian disease: A probable epigenetic defect. 36th Annual Meeting of the Society for Gynecologic Investigation, San Diego, CA, March 15-18, 1989, abstract #316.
4. HALME J, **BUYALOS RP**, RUTANEN E-M, TSUI E. Release of TNF activity by human peritoneal macrophages in response to TSST-1. 36th Annual Meeting of the Society for Gynecologic Investigation, San Diego, CA, March 15-18, 1989, abstract #546.
5. D'AMICO J, **BUYALOS RP**, CLISHAM RP, EGGENA P, JUDD HL. Impact of hormone replacement on renin substrate and aldosterone levels, and plasma renin activity in postmenopausal women. 36th Annual Meeting of the Society for Gynecologic Investigation, San Diego, CA, March 15-18, 1989, abstract #283.
6. **BUYALOS RP**, RUTANEN E-M, PEKONEN F, JUDD HL, HALME J. 34K insulin-like growth factor binding protein levels in polycystic ovarian disease in response to intravenous glucose tolerance test. 45th Annual Meeting of the American Fertility Society, San Francisco, CA, Nov. 11-16, 1989, abstract #157 (**Prize Poster Award**).
7. **BUYALOS RP**, GAMBONE JC, GEFFNER ME, JUDD HL. Androgen response to an oral glucose tolerance test following overnight dexamethasone suppression in polycystic ovarian

- disease. 45th Annual Meeting of the American Fertility Society, San Francisco, CA, Nov. 11-16, 1989, abstract #158.
8. **BUYALOS RP**, WATSON JM, MARTINEZ-MAZA O. Detection of interleukin-6 in human follicular fluid. 46th Annual Meeting of the American Fertility Society, Washington, DC, Oct. 13-18, 1990, abstract #153.
 9. **BUYALOS RP**, FUNARI VA, AZZIZ A, WATSON JM, MARTINEZ-MAZA O. Elevated interleukin-6 levels in peritoneal fluid of patients with pelvic pathology. 38th Annual Meeting of the Society for Gynecologic Investigation, San Antonio, TX, March 20-23, 1991, abstract #120.
 10. **BUYALOS RP**, BRADLEY EL, JUDD HL, ZACUR HA, AZZIZ R. No effect of two-hour oral glucose tolerance test on serum dehydroepiandrosterone-sulfate in women with obesity or polycystic ovarian syndrome. 38th Annual Meeting of the Society for Gynecologic Investigation, San Antonio, TX, March 20-23, 1991, abstract #175.
 11. GIBBONS WF, JUDD HL, LUCIANO AA, NACHTIGALL LE, DAWOOD MY, BURRY K, ZIEL H, LE BOFF MS, EL-HAJJ G, OGRINE F, SCHOENFELD MJ, **BUYALOS RP**, ADASHI E, SCHNATZ P. Comparison of sequential versus continuous estrogen/progestin replacement therapy on serum lipid patterns. 38th Annual Meeting of the Society for Gynecologic Investigation, San Antonio, TX, March 20-23, 1991, abstract #491.
 12. GIBBONS WE, JUDD HL, MOYER D, NACHTIGALL LE, BURRY K, LUCIANO AA, DAWOOD MY, ZIEL H, SCHNATZ P, **BUYALOS RP**, OGRINE F, SCHOENFELD MJ, EL-HAJJ G, LE BOFF MS, ADASHI E. Evaluation of sequential versus continuous estrogen/progestin replacement therapy on uterine bleeding patterns and endometrial histology. 38th Annual Meeting of the Society for Gynecologic Investigation, San Antonio, TX, March 20-23, 1991, abstract #490.
 13. PEARLSTONE AC, FOURNET N, **BUYALOS RP**, PITZER S, PANG S, GAMBONE JC. Monthly fertility/fecundity rates during ovulation induction in women age 40 and older: the effect of day 3 follicle stimulating hormone levels. 47th Annual Meeting of the American Fertility Society Meeting, Orlando, FL, Oct. 21-24, 1991, abstract #118.
 14. **BUYALOS RP**, TSUI E, CAI X. Enhanced development of preimplantation mouse embryos by epidermal growth factor. 39th Annual Meeting of the Society for Gynecologic Investigation, San Antonio, TX, March 18-21, 1992, abstract #525.
 15. GELETY TJ, **BUYALOS RP**. The influence of clomiphene citrate dosage on cervical mucus in ovulatory cycles. 48th Annual Meeting of the American Fertility Society, New Orleans, LA, Oct. 31-Nov. 5, 1992, abstract #142.
 16. GELETY TJ, **BUYALOS RP**. Exceedingly high levels of estradiol do not adversely affect pregnancy outcome in in vitro fertilization cycles. 41st Annual Meeting of the Pacific Coast Fertility Society, Indian Wells, CA, April 14-18, 1993, abstract #2.
 17. AGARWAL SK, **BUYALOS RP**: Age related decline in fecundity rates in clomiphene citrate stimulated cycles is independent of corpus luteum function. 41st Annual Meeting of the Society for Gynecologic Investigation, Chicago, IL, Mar 22-25, 1994, abstract #68.
 18. MAGARELLI PC, PEARLSTONE AC, **BUYALOS RP**. Pregnancy and live birth rates in infertile women 35 and older during ovulation induction: predictive value of patient age and

- basal follicle stimulating hormone levels. 42nd Annual Meeting of the Pacific Coast Fertility Society, Indian Wells, CA, April 20-24, 1994, abstract #16
19. MELDRUM DR, GARZO G, RAMSEY C, KILTZ R, **BUYALOS RP**, EL-ROEIY A, ANDERSON R. Chromium picolinate lowers insulin response to glucose in women with body weight who have polycystic ovarian disease. 50th Annual Meeting of The American Fertility Society, San Antonio, TX, Nov. 5-10, 1994, abstract #132.
 20. SMITH KE, **BUYALOS RP**. Impact of patient age on pregnancy outcome after early detection of fetal cardiac activity by transvaginal sonography. 50th Annual Meeting of The American Fertility Society, San Antonio, TX, Nov. 5-10, 1994, abstract #78.
 21. AGARWAL SK, **BUYALOS RP**. Is clomiphene citrate with intrauterine insemination effective therapy in women over the age of 35? 50th Annual Meeting of The American Fertility Society, San Antonio, TX, Nov. 5-10, 1994, abstract #334 (**Prize Poster Award**).
 22. MAGARELLI PC, SMITH KE, PITZER S, **BUYALOS RP**, GAMBONE JC. Randomized "patient as own control" study of the effect of two versus two versus one intrauterine insemination in ovulation induction patients. 43rd Annual Meeting of the Pacific Coast Fertility Society, San Diego, CA, April 26-30, 1995, abstract #60
 23. MAGARELLI PC, SMITH KE, PITZER S, **BUYALOS RP**, GAMBONE JC. The effect of the number of inseminations on fertility in ovulation induction patients: A prospective randomized "patient as own control" study. XV World Congress on Fertility Sterility (IFFS), Montpellier, France, Sept. 17-22, 1995.
 24. BRZECHFFA PR, **BUYALOS RP**. Menotropin requirements and patient age are predictors of clinical pregnancy rates with ovulation induction therapy. 51st Annual Meeting of the American Society for Reproductive Medicine, Seattle, WA, Oct. 7-12, 1995, abstract #195.
 25. BRZECHFFA PR, DANESHMAND ST, **BUYALOS RP**. Sequential clomiphene citrate and human menopausal gonadotropin with intrauterine insemination following previous clomiphene citrate failure: the effect of patient age on clinical outcome. 44th Annual Meeting of the Pacific Coast Fertility Society, Indian Wells, CA, April 17-21, 1996, abstract #24.
 26. DANESHMAND ST, BRZECHFFA PR, **BUYALOS RP**. Day 3 estradiol levels as a predictor of clinical pregnancy rates in older women undergoing ovulation induction therapy. 45th Annual Meeting of the Pacific Coast Fertility Society, Indian Wells, CA, April 10-13, 1997, abstract #1.
 27. GHOSH, K, DANESHMAND S, **BUYALOS RP**. Intercycle variability of basal stimulating hormone and estradiol in infertile woman of advance reproductive age. 45th Annual Meeting of the Pacific Coast Fertility Society, Indian Wells, CA, April 10-13, 1997, abstract #12.
 28. **BUYALOS RP**, DANESHMAND ST, BRZECHFFA PR. Disturbances in the late luteal-early follicular phase transition in infertile women of advanced reproductive age. 53rd Annual Meeting of the American Society for Reproductive Medicine, Cincinnati, OH, Oct. 18-22, 1997, abstract #002.
 29. MARGALIT R, SMITH D, **BUYALOS RP**. Blastocyst formation subsequent to day 3 embryo transfer is not predictive of pregnancy. 55th Annual Meeting of the American Society for Reproductive Medicine, Toronto, Canada, Sept. 25-30, 1999, abstract #221.
 30. KETTEL LM, OTA M, **BUYALOS RP**, Hummel WP. A comparison of day 3 FSH and estradiol levels using two assay systems. 47th Annual Meeting of the Pacific Coast Fertility Society, Indian Wells, CA, April 26-30, 2000.

31. SCHIEWE MC, HUBERT G, **BUYALOS RP**: Human zygote cryopreservation using CBSTM cryobiostraws: A clinical trial. 50th Annual Meeting of the Pacific Coast Reproductive Society, Rancho Mirage, CA, April 17-21, 2002 (Fertil Steril 77:S22, 2002).
32. **BUYALOS RP**, HUBERT G, SCHIEWE MC. Poor fertility predictive value of the sperm chromatin structure assay (SCSA) is neutralized by sperm injection: case studies. 60th Annual Meeting of the ASRM, Philadelphia, PA, Oct. 16-20, 2004 (Fertil Steril 81: 27-28, 2004).
33. SCHIEWE MC, HUBERT G, **BUYALOS RP**. Testicular tissue processing: maximizing viability for cryopreservation and clinical use. 60th Annual Meeting of the American Society for Reproductive Medicine, Philadelphia, PA, Oct. 16-20, 2004 (Fertil Steril 81:15, 2004).
34. GHADIR S, HUANG A, MUR E, DECHERNEY AH, **BUYALOS RP**, DURINZI KL. Therapeutic donor insemination (TDI) in advanced women: Impact on type on success. 60th Annual Meeting of the American Society for Reproductive Medicine, Philadelphia, PA, Oct. 16-20, 2004 (Fertil Steril 82:S141, 2004).
35. SCHIEWE MC, MILLER F, HUBERT GD, **BUYALOS RP**. Comparative echogenicity of various soft-tipped embryo transfer catheters. Conjoint Annual Meeting of the American Society for Reproductive Medicine /Canadian Fertility and Andrology Society, Montreal, Canada, Oct. 15-19, 2005 (Fertil Steril 84:S349-S350, 2005).
36. SCHIEWE MC, MILLER F, HUBERT GD, **BUYALOS RP**. Pre-freeze manual collapsing of the blastocysts cavity increases cryosurvival of human blastocysts. Conjoint Annual Meeting of the American Society for Reproductive Medicine /Canadian Fertility and Andrology Society, Montreal, Canada, Oct. 15-19, 2005 (Fertil Steril. 84:S182, 2005).
37. KETEFIAN A, SPROUL K, **BUYALOS RP**, HUBERT G, KUMAR A. Ectopic pregnancy (EP) after in vitro fertilization (IVF) and subsequent pregnancy outcomes. 55th Annual Meeting of the Pacific Coast Reproductive Society, Rancho Mirage, CA, April 18-22, 2007 (Fertil Steril 87:S16-7, 2007).
38. SPROUL K, **BUYALOS RP**, HUBERT GD, KUMAR A. Prevalence of Elevated Thyroid Stimulating Hormone (TSH) Levels Using the Conventional Cut-Off of 14.0 uIU/mL Versus 3.0 uIU/mL. 55th Annual Meeting of the Pacific Coast Reproductive Society, Rancho Mirage, CA, April 18-22, 2007 (Fertil Steril 87:S18, 2007).
39. MAK W, SPROUL K, HUBERT G, **BUYALOS RP**, KUMAR A. Combined transdermal and oral estradiol vs. transdermal estradiol only for luteal supplementation in patients undergoing in vitro fertilization. 55th Annual Meeting of the Pacific Coast Reproductive Society, Rancho Mirage, CA, April 18-22, 2007 (Fertil Steril 87:S22-23, 2007).
40. **BUYALOS RP**, LI M, MILLER F, HUBERT GD, SCHIEWE MC. The effect of media type, gas environment, and incubator model on IVF success rates. 56th Annual Meeting of The Pacific Coast Reproductive Society, Rancho Mirage, CA, April 9-13, 2008 (Fertil Steril 89:S17-S18, 2008).
41. LI M, MILLER F, ZHANG M, KUMAR A, HUBERT G, **BUYALOS RP**. Day 7 blastocysts, should they be discarded or cryopreserved? 64th Annual Meeting of the American Society for Reproductive Medicine, San Francisco, CA, Nov. 8-12, 2008 (Fertil Steril 90:S427, 2008).
42. **BUYALOS RP**, LI M, MILLER F, KUMAR A, HUBERT G. Triamniotic/monochorionic triplet pregnancy established after day 2 single embryo transfer with in vitro fertilization/(IVF-ET) 64th Annual Meeting of the American Society for Reproductive Medicine, San Francisco, CA, Nov. 8-12, 2008 (Fertil Steril 90:S456, 2008).

43. **BUYALOS RP**, LI M, MILLER F, ZHANG M, KUMAR A, HUBERT G. Effective blastocyst cryopreservation markedly increases cumulative pregnancy rates per ova retrieval in donor ova and non-donor cycles independent of patient age. 65th Annual Meeting of the American Society for Reproductive Medicine, Atlanta, Georgia, Oct. 17-21, 2009 (Fertil Steril 92:S157, 2009).
44. **BUYALOS RP**, WITJES H, MANNAERTS B, GORDON K. The Impact of Intercycle Variation on Predictive Parameters of Ovarian Reserve in the Xpect Trial. 58th Annual Meeting of The Pacific Coast Reproductive Society, April 14-18, 2010 (Fertil Steril 93:S9-S10, 2010).
45. **BUYALOS RP**, LI M, KUMAR A, HUBERT G, MILLER F. Does Advancing Maternal Age Ameliorate the Advantage of Blastocyst Transfer?: The implantation Rate of Blastocyst Compared to Cleavage Stage Embryo Transfer as a Function of Patient Age. 59th Annual Meeting of The Pacific Coast Reproductive Society, Rancho Mirage, CA, April 13-17, 2011 (Fertil Steril 95:S13-S14, 2011).
46. LI M, XIE Y, PARK H, KUMAR A, HUBERT GD, **BUYALOS RP**. The effects of elevated serum progesterone level at the level at the day of hCG injection of clinical outcome in IVF-ET patients. The 61st Annual Meeting of The Pacific Coast Reproductive Society, Rancho Mirage, CA, April 17-21, 2013 (Fertil Steril 100:S7, 2013).
47. **BUYALOS RP**, LIU L, KUMAR A, WETHERBY F, LEONY R, LI M. Blastocysts re-analysis alter cleavage stage biopsy with 24 chromosome array comparative genomic hybridization (CGH). How Reliable is the PGS Report? The 61st Annual Meeting of The Pacific Coast Reproductive Society, Rancho Mirage, CA, April 17-21, 2013 (Fertil Steril. 99:S29-S30, 2013).
48. **BUYALOS RP**, LIU L, KUMAR A, WETHERBY F, LEONY R, LI M. Is morula biopsy an effective option for PGS? The 61st Annual Meeting of The Pacific Coast Reproductive Society, Rancho Mirage, CA, April 17-21, 2013 (Fertil Steril 99:S30, 2013).
49. WEATHERBY F, KEYHSAN S, KUMAR A, HUBERT G, **BUYALOS RP**, LI M. Oocyte bank set up by comparing different vitrification devices. Fertil Steril 100:S174, 2013, 69th Annual Meeting of the American Society for Reproductive Medicine, Boston, MA, Oct. 12-17, 2013.
50. WEATHERBY F, KEYHAN S, KUMAR A, HUBERT G, **BUYALOS RP**, LI M. Oocyte bank set up by comparing different vitrification devices. 69th Annual Meeting of the American Society for Reproductive Medicine, Boston, MA, Oct. 12-17, 2013 (Fertil Steril 100:S185, 2013).
51. LI M, XIU Y, PARK H, KUMAR A, HUBERT G, **BUYALOS RP**. Frozen-thawed embryo transfer improves clinical outcomes in patients receiving IVF treatment. Fertil Steril 100:S177, 2013, 69th Annual Meeting of the ASRM, Boston, MA, Oct. 12 - 17, 2013.
52. **BUYALOS R**, XIE Y, PARK H, AZADBADI S, HUBERT G, KUMAR A, LI M. Microarray preimplantation genetic screen significantly improves clinical outcomes with vitrified-thawed embryo transfer Fertil Steril 102:e177, 2014. 70th Annual Meeting of the American Society for Reproductive Medicine, Honolulu, HI, Oct. 18 - 22, 2014.
53. XIE Y, LI M, PARK H, AZADBADI S, KUMAR A, HUBERT G, **BUYALOS RP**. The relationship between blastocyst grading, timing of blastocyst formation, maternal age and chromosomal abnormality. Fertil Steril 102:e174. 2014, 70th Annual Meeting of the American Society for Reproductive Medicine, Honolulu, HI, Oct. 18 - 22, 2014.
54. LI M, KUMAR A, SHAMONKI M, HUBERT G, **BUYALOS RP**. Implantation rates following transfer of vitrified euploid blastocysts are independent of maternal age. Fertil Steril

- 104:e339–e340, 2015. 71st Annual Meeting of the American Society for Reproductive Medicine, Baltimore, MD, Oct. 17-21, 2015.
55. **BUYALOS RP**, XIE Y, PARK H, AZADBADI S, KUMAR A, HUBERT GD, LI M. Microarray pre-implantation genetic screening significantly improves clinical outcomes with vitrified-thawed embryo transfer. *Fertil Steril* 103:e29–e30, 2015. 63rd Annual Meeting of the Pacific Coast Reproductive Society, Rancho Mirage, CA, March 11-15, 2015.
 56. SHAMONKI M, JIN H, HAIMOWITZ Z, **BUYALOS RP**, LIU L. Non-invasive preimplantation genetic screening (PGS) – free embryonic DNA in embryo culture media exists and may offer the potential for comprehensive chromosomal screening of human blastocysts. *Fertil Steril* 105:e37, 2016. 64th Annual Meeting of the Pacific Coast Reproductive Society, Rancho Mirage, March 9-13, 2016.
 57. LI M, SHAMONKI M, HUBERT G, **BUYALOS RP**. Testicular sperm correlates with a similar rate of euploid embryo development compared to cycles using ejaculated sperm. Fertility and Sterility, ASRM 2016 presentation. *Fertil Steril* 106:e233, 2016. 72nd Annual Meeting of the American Society for Reproductive Medicine, Salt Lake City, UT, Oct. 15-19, 2016.
 58. KAING A, KROENER L, TASSIN R, LI M, LIU L, **BUYALOS RP**, HUBERT GD, SHAMONKI M. Earlier day of blastocyst trophectoderm biopsy is predictive of embryonic euploidy across all age groups in both autologous and donor cycles: essential data for counseling patients. *Fertil Steril* 106:e351–e352, 2016. 72nd Annual Meeting of the American Society for Reproductive Medicine, Salt Lake City, UT, Oct. 15-19, 2016.
 59. Kaing A, Kroener L, **BUYALOS RP**, Hubert G, Shamonki M. Prediction model for expected live births per retrieval based on patient age and number of oocytes. 65th Annual Meeting of the Pacific Coast Reproductive Society, Indian Wells, CA, March 22-26, 2017.
 60. Sundheimer LW, **BUYALOS RP**, Hubert G, Liu L, Al-Safi, Z, Shamonki M. Identification of previously undetected reciprocal translocations by comprehensive chromosomal screening of IVF embryos in patients with and without recurrent pregnancy loss. 65th Annual Meeting of the Pacific Coast Reproductive Society, Indian Wells, CA, March 22-26, 2017.
 61. Zore T, Kroener LI, Wang B, Liu, **BUYALOS RP**, Hubert G, Shamonki M. Transfer of embryos with segmental mosaicism is associated with a significant reduction in live birth rate. Oral presentation, 73rd Annual meeting of the American Society for Reproductive Medicine, San Antonio, TX, Oct. 28-Nov. 1, 2017
 62. Wang C, Hubert G, Shamonki M, **BUYALOS RP**. Euploidy rate is independently associated with the number of ova retrieved in fresh donor cycles. Poster, Pacific Coast Reproductive Society Annual meeting, Indian Wells, CA, March 21-25, 2018.
 63. Hoyos LR, Cheng CY, Brennan K, Hubert G, Wang B, **BUYALOS RP**, Shamonki M. Aneuploidy rates among young oocyte donors: is there an optimal age for donation? Annual Meeting of the American Society for Reproductive Medicine, Denver, CO, Oct. 6-10, 2018
 64. Patel H, Zore T, **BUYALOS RP**, Wang B, Brower B, Shamonki M, Quinn MM. Effect of estrogen to progesterone ratio at the time of ovulation induction trigger on subsequent euploid

- frozen embryo transfer pregnancy rate. 75th Annual Meeting of the American Society for Reproductive Medicine, Philadelphia, PA, Oct. 12-16, 2019.
65. Mehr H, Shamonki M, Wang C, **BUYALOS RP**, Hubert G, Quinn MM. Does universal screening for chronic endometritis improve pregnancy rates? 75th Annual Meeting of the American Society for Reproductive Medicine, Philadelphia, PA, Oct. 12-16, 2019.
 66. WANG C, **BUYALOS R**, HUBERT G, SHAMONKI M. Blastocyst Euploidy Rates Are Not Affected by Intracytoplasmic Sperm Injection (ICSI) Versus Conventional Insemination. 77th Annual Meeting of the American Society for Reproductive Medicine, Baltimore, MD, Oct. 17-20, 2021 (Fertil Steril 2021;116(3): e144).
 67. PACE L, MARKOVIC D, **BUYALOS RP**, BRIL F, AZZIZ R. Economic Burden of Endometrial Cancer Associated with Polycystic Ovary Syndrome. The 105th Annual Meeting of the Endocrine Society, June 15-18, 2023, Chicago, IL; and Androgen Excess & PCOS Society Satellite Meeting, June 14, Chicago, IL.
 68. MAKWE C, OLAMIJULO JA, BALOGUN MR, AKINKUGBE AO, SAMUEL TA, UDENZE IC, BRIL F, **BUYALOS RP**, LAVEN J, AZZIZ R. The prevalence and phenotype of polycystic ovary syndrome (PCOS) in a community-based population in Sub-Sahara Africa: The Nigeria-PEP Study. The 105th Annual Meeting of the Endocrine Society, June 15-18, 2023, Chicago, IL; and Androgen Excess & PCOS Society Satellite Meeting, June 14, Chicago, IL.
 69. THAI L, DELAU O, SURABHI Y, **BUYALOS RP**, OTTEY S, PATTERSON W, AZZIZ R. Indirect and Intangible Burden of PCOS: A Patient Advocacy Organization Study. The 105th Annual Meeting of the Endocrine Society, June 15-18, 2023, Chicago, IL; and Androgen Excess & PCOS Society Satellite Meeting, June 14, Chicago, IL.
 70. AMIRI M, HATOUM S, HOPKINS K, **BUYALOS RP**, EZEH U, PACE L, BRIL F, AZZIZ R. Does obesity drive the development of PCOS? An epidemiologic study. The 105th Annual Meeting of the Endocrine Society, June 15-18, 2023, Chicago, IL; and Androgen Excess & PCOS Society Satellite Meeting, June 14, Chicago, IL.
 71. HATOUM S, AMIRI M, HOPKINS K, **BUYALOS RP**, BRIL F, AZZIZ R. Prevalence of Polycystic Ovary Syndrome (PCOS) in Health System and Insurer Records vs. the Prevalence in the Population: Evidence for the Significant Underdiagnosis and Undertreatment of PCOS. The 105th Annual Meeting of the Endocrine Society, June 15-18, 2023, Chicago, IL; and Androgen Excess & PCOS Society Satellite Meeting, June 14, Chicago, IL.
 72. THAI L, OTTEY S, DELAU O, **BUYALOS RP**, PATTERSON W, AZZIZ R. Indirect Economic Burden of PCOS: A Patient Advocacy Organization Study. The 21st Annual Meeting of the Androgen Excess & PCOS Society, October 5-7, 2023, Rotterdam, Netherlands.
 73. THAI L, OTTEY S, DELAU O, SURABHI Y, **BUYALOS RP**, PATTERSON W, AZZIZ R. Estimating the Intangible Burden of PCOS Using The EQ-5D-5L: A Patient Advocacy Organization Study. The 21st Annual Meeting of the Androgen Excess & PCOS Society, October 5-7, 2023, Rotterdam, Netherlands.
 74. MAKWE CC, OLAMIJULO JA, AKINKUGBE AO, SAMUEL TA, UDENZE IC, BALOGUN MR, BRIL F, **BUYALOS RP**, LAVEN J, AZZIZ R. The Phenotype of Polycystic Ovary Syndrome

- (PCOS) In A Referral Population in Nigeria. The 21st Annual Meeting of the Androgen Excess & PCOS Society, October 5-7, 2023, Rotterdam, Netherlands.
75. SOUCIE K, THAI L, OTTEY S, WILLIAMS SL, DELAU O, **BUYALOS RP**, PATTERSON W, PARTRIDGE T, AZZIZ R. Estimating the Intangible Burden Of PCOS: The Quality-Adjusted Life-Year (QALY) Value. The 21st Annual Meeting of the Androgen Excess & PCOS Society, October 5-7, 2023, Rotterdam, Netherlands.
76. HATOUM S, AMIRI M, **BUYALOS RP**, AZZIZ R. Epidemiologic Studies of PCOS: Development and Validation of a Novel Quality Assessment Tool. The 21st Annual Meeting of the Androgen Excess & PCOS Society, October 5-7, 2023, Rotterdam, Netherlands.
77. WILLIAMS, SL, THAI L, DELAU O, SOUCIE K, **BUYALOS RP**, OTTEY S, PATTERSON W, AZZIZ R. Physical and Mental Health In a Community Sample of Individuals Living With PCOS. The 21st Annual Meeting of the Androgen Excess & PCOS Society, October 5-7, 2023, Rotterdam, Netherlands.
78. THAI L, DELAU O, **BUYALOS RP**, OTTEY S, PATTERSON W, AZZIZ R. Unlocking the Value of Health: A Willingness-To-Pay Study of PCOS in a Patient Advocacy Organization. The 21st Annual Meeting of the Androgen Excess & PCOS Society, October 5-7, 2023, Rotterdam, Netherlands.
79. HATOUM S, AMIRI M, **BUYALOS RP**, SHEIDAEI A, AZZIZ R. Prevalence of Polycystic Ovary Syndrome in Adolescent Girls by World Health Organization Region. The 106th Annual Meeting of the Endocrine Society, June 1-4, 2024, Boston, MA.
80. AMIRI M, HATOUM S, **BUYALOS RP**, SHEIDAEI A, AZZIZ R. The Prevalence of Polycystic Ovary Syndrome in Adult Women: The Impact of Geographic Region. The 106th Annual Meeting of the Endocrine Society, June 1-4, 2024, Boston, MA.