

Stanford



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Professor of Obstetrics and Gynecology (Reproductive Endocrinology and Infertility)
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Bio

CLINICAL FOCUS

- Fertility (Reproductive Medicine)
- Gynecology
- Obstetrics
- Reproductive Endocrinology and Infertility

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Obstetrics & Gynecology - Reproductive Endocrinology & Infertility

PROFESSIONAL EDUCATION

- Fellowship: Stanford University School of Medicine (1987) CA
- Internship: American University of Beirut Office of the Registrar (1983) Lebanon
- Residency: American University of Beirut Office of the Registrar (1985) Lebanon
- Medical Education: American University of Beirut Office of the Registrar (1982) Lebanon
- MD, American Univ of Beirut, Lebanon (1982)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Infertility

Assisted Reproductive Technologies

Microsurgery and Endoscopic Surgery

CLINICAL TRIALS

- Day of Embryo Transfer for Patients Undergoing In Vitro Fertilization, Not Recruiting

Publications

PUBLICATIONS

- Elevated body mass index in modified natural cycle frozen euploid embryo transfers is not associated with live birth rate. *Journal of assisted reproduction and genetics*
Beshar, I., Milki, A. A., Gardner, R. M., Zhang, W. Y., Johal, J. K., Bavan, B.
2023
- Pregnancy and neonatal outcomes of letrozole versus natural cycle frozen embryo transfer of autologous euploid blastocyst. *Journal of assisted reproduction and genetics*
Zhang, W. Y., Gardner, R. M., Johal, J. K., Beshar, I. E., Bavan, B., Milki, A. A., Lathi, R. B., Aghajanova, L.
2023
- THE IMPACT OF AIR BUBBLE POSITION ON PREGNANCY OUTCOMES FOLLOWING MODIFIED NATURAL CYCLE FROZEN-THAWED EUPLOID BLASTOCYST TRANSFERS.
Bavan, B., Sahagun, M., Johal, J., Zhang, W., Milki, A.
ELSEVIER SCIENCE INC.2022: E21-E23
- The impact of euploid blastocyst morphology and maternal age on pregnancy and neonatal outcomes in natural cycle frozen embryo transfers. *Journal of assisted reproduction and genetics*
Zhang, W. Y., Johal, J. K., Gardner, R. M., Bavan, B., Milki, A. A.
2022
- BODY MASS INDEX DOES NOT AFFECT NATURAL CYCLE FROZEN EMBRYO TRANSFERS.
Beshar, I., Bavan, B., Milki, A. A.
ELSEVIER SCIENCE INC.2021: E245-E246
- Withholding antibiotics does not reduce clinical pregnancy outcomes of natural cycle frozen embryo transfers. *Fertility and sterility*
Beshar, I., Johal, J. K., Saravanabavanandhan, B., Milki, A. A.
2021
- THE PREDICTIVE VALUE OF ESTRADIOL LEVEL IN EUPLOID NATURAL CYCLE FROZEN EMBRYO TRANSFER PREGNANCY OUTCOMES.
Bavan, B., Johal, J. K., Zhang, W. Y., Sahagun, M. J., Milki, A. A., Sokalska, A.
ELSEVIER SCIENCE INC.2020: E286
- THE EFFECT OF ANTIBIOTIC ADMINISTRATION ON NATURAL CYCLE FROZEN EMBRYO TRANSFERS.
Johal, J. K., Beshar, I., Bavan, B., Milki, A. A.
ELSEVIER SCIENCE INC.2020: E302
- PREGNANCY AND BIRTH OUTCOMES ASSOCIATED WITH MATERNAL AGE AND EUPLOID EMBRYO GRADE AFTER NATURAL CYCLE FROZEN TRANSFER.
Zhang, W. Y., Johal, J. K., Bavan, B., Milki, A. A.
ELSEVIER SCIENCE INC.2020: E305
- EMBRYO GRADING AND PREGNANCY OUTCOMES IN NATURAL CYCLE EUPLOID FROZEN EMBRYO TRANSFERS
Johal, J. K., Bavan, B., Zhang, W. Y., Milki, A. A.
ELSEVIER SCIENCE INC.2020: E42–E43
- THE IMPACT OF SPONTANEOUS LH SURGE DURING A NATURAL CYCLE FROZEN EMBRYO TRANSFER.
Johal, J. K., Bavan, B., Lathi, R. B., Milki, A. A.
ELSEVIER SCIENCE INC.2019: E171
- Spontaneous Conception during In Vitro Fertilization prior to Embryo Transfer without the Opportunity for Preimplantation Genetic Testing. *Case reports in obstetrics and gynecology*
Bavan, B. n., Milki, A. A.

2019; 2019: 1804948

- **Transvaginal Ultrasonographic Rates of Folliculogenesis Among Oligomenorrheic Women with Polycystic Ovary Syndrome** *JOURNAL OF REPRODUCTIVE MEDICINE*
Dahan, M. H., Drubach, N. C., Milki, A. A.
2016; 61 (9-10): 431-435
- **In vitro fertilization outcomes after fresh and frozen blastocyst transfer in South Asian compared with Caucasian women** *FERTILITY AND STERILITY*
Shah, M. S., Caballes, M., Lathi, R. B., Baker, V. L., Westphal, L. M., Milki, A. A.
2016; 105 (6): 1484-1487
- **Drug-Induced Thrombocytopenia following a Transvaginal Oocyte Retrieval for In Vitro Fertilization. Case reports in obstetrics and gynecology**
Comstock, I. A., Longmire, M., Aster, R. H., Milki, A. A.
2015; 2015: 890610-?
- **The role of serum testosterone in early pregnancy outcome: a comparison in women with and without polycystic ovary syndrome.** *Journal of obstetrics and gynaecology Canada : JOGC = Journal d'obstétrique et gynécologie du Canada : JOGC*
Lathi, R. B., Dahan, M. H., Reynolds-May, M. F., Milki, A. A., Behr, B., Westphal, L. M.
2014; 36 (9): 811-816
- **Frequency of the Male Infertility Evaluation: Data from the National Survey of Family Growth** *JOURNAL OF UROLOGY*
Eisenberg, M. L., Lathi, R. B., Baker, V. L., Westphal, L. M., Milki, A. A., Nangia, A. K.
2013; 189 (3): 1030-1034
- **Outcomes of trophectoderm biopsy on cryopreserved blastocysts: a case series** *REPRODUCTIVE BIOMEDICINE ONLINE*
Lathi, R. B., Massie, J. A., Gilani, M., Milki, A. A., Westphal, L. M., Baker, V. L., Behr, B.
2012; 25 (5): 504-507
- **Successful frozen blastocyst transfers after failed fresh transfers in assisted reproductive technologies patients with hydrosalpinx** *AMERICAN JOURNAL OF OBSTETRICS AND GYNECOLOGY*
Sueldo, C. M., Milki, A. A., Lathi, R. B.
2012; 206 (3): E4-E6
- **Early pregnancy testosterone after ovarian stimulation and pregnancy outcome** *FERTILITY AND STERILITY*
Gustin, S. L., Mukherjee, G., Baker, V. L., Westphal, L. M., Milki, A. A., Lathi, R. B.
2012; 97 (1): 23-U48
- **The effect of air bubble position after blastocyst transfer on pregnancy rates in IVF cycles** *FERTILITY AND STERILITY*
Friedman, B. E., Lathi, R. B., Henne, M. B., Fisher, S. L., Milki, A. A.
2011; 95 (3): 944-947
- **Ovarian stimulation and the risk of aneuploid conceptions** *64th Annual Meeting of the American-Society-for-Reproductive-Medicine*
Massie, J. A., Shahine, L. K., Milki, A. A., Westphal, L. M., Lathi, R. B.
ELSEVIER SCIENCE INC.2011: 970-72
- **Age-Related Success with Elective Single versus Double Blastocyst Transfer.** *ISRN obstetrics and gynecology*
Friedman, B. E., Davis, L. B., Lathi, R. B., Westphal, L. M., Baker, V. L., Milki, A. A.
2011; 2011: 656204-?
- **Day 2 versus day 3 embryo transfer in poor responders: a prospective randomized trial** *FERTILITY AND STERILITY*
Shahine, L. K., Milki, A. A., Westphal, L. M., Baker, V. L., Behr, B., Lathi, R. B.
2011; 95 (1): 330-332
- **Is infertility a risk factor for female sexual dysfunction? A case-control study** *FERTILITY AND STERILITY*
Millheiser, L. S., Helmer, A. E., Quintero, R. B., Westphal, L. M., Milki, A. A., Lathi, R. B.
2010; 94 (6): 2022-2025
- **Etiology of recurrent pregnancy loss in women over the age of 35 years** *55th Annual Meeting of the Pacific-Coast-Reproductive-Society*
Marquard, K., Westphal, L. M., Milki, A. A., Lathi, R. B.
ELSEVIER SCIENCE INC.2010: 1473-77

- **Karyotype of miscarriages in relation to maternal weight** *HUMAN REPRODUCTION*
Landres, I. V., Milki, A. A., Lathi, R. B.
2010; 25 (5): 1123-1126
- **Asian Ethnicity and Poor Outcomes After In Vitro Fertilization Blastocyst Transfer** *OBSTETRICS AND GYNECOLOGY*
Langen, E. S., Shahine, L. K., Lamb, J. D., Lathi, R. B., Milki, A. A., Fujimoto, V. Y., Westphal, L. M.
2010; 115 (3): 591-596
- **Laparoscopy in Women With Unexplained Infertility: A Cost-Effectiveness Analysis** *EDITORIAL COMMENT OBSTETRICAL & GYNECOLOGICAL SURVEY*
Moayeri, S. E., Lee, H. C., Lathi, R. B., Westphal, L. M., Milki, A. A., Garber, A. M.
2009; 64 (12): 800-801
- **Poor Prognosis with In Vitro Fertilization in Indian Women Compared to Caucasian Women Despite Similar Embryo Quality** *PLOS ONE*
Shahine, L. K., Lamb, J. D., Lathi, R. B., Milki, A. A., Langen, E., Westphal, L. M.
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- **Effect of methotrexate exposure on subsequent fertility in women undergoing controlled ovarian stimulation** *54th Annual Meeting of the Pacific-Coast Reproductive-Society*
McLaren, J. F., Burney, R. O., Milki, A. A., Westphal, L. M., Dahan, M. H., Lathi, R. B.
ELSEVIER SCIENCE INC.2009: 515-19
- **Laparoscopy in women with unexplained infertility: a cost-effectiveness analysis** *FERTILITY AND STERILITY*
Moayeri, S. E., Lee, H. C., Lathi, R. B., Westphal, L. M., Milki, A. A., Garber, A. M.
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- **Embryo quality before and after surgical treatment of endometriosis in infertile patients** *JOURNAL OF ASSISTED REPRODUCTION AND GENETICS*
Shahine, L. K., Burney, R. O., Behr, B., Milki, A. A., Westphal, L. M., Lathi, R. B.
2009; 26 (2-3): 69-73
- **Basal follicle-stimulating hormone as a predictor of fetal aneuploidy** *FERTILITY AND STERILITY*
Massie, J. A., Burney, R. O., Milki, A. A., Westphal, L. M., Lathi, R. B.
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Zamah, A. M., El-Sayed, Y. Y., Milki, A. A.
2008; 90 (4)
- **Benefits of PGD in patients with recurrent miscarriages? Reply of the authors** *FERTILITY AND STERILITY*
Lathi, R. B., Westphal, L. M., Milki, A. A.
2008; 90 (1): 241-242
- **Bladder hematoma after vaginal paracentesis** *FERTILITY AND STERILITY*
Massie, J. A., Milki, A. A.
2008; 89 (6): 1808-1809
- **Transvaginal ligation of the cervical branches of the uterine artery and injection of vasopressin initial in a cervical pregnancy as an step to controlling hemorrhage - A case report** *JOURNAL OF REPRODUCTIVE MEDICINE*
Davis, L. B., Lathi, R. B., Milki, A. A., Dahan, M. H.
2008; 53 (5): 365-368
- **Aneuploidy in the miscarriages of infertile women and the potential benefit of preimplantation genetic diagnosis** *FERTILITY AND STERILITY*
Lathi, R. B., Westphal, L. M., Milki, A. A.
2008; 89 (2): 353-357
- **Elective single blastocyst transfer in women older than 35** *FERTILITY AND STERILITY*
Davis, L. B., Lathi, R. B., Westphal, L. M., Milki, A. A.
2008; 89 (1): 230-231
- **Section 7.2. Assessment of the Endometrial Cavity in the Patient with Infertility** *NEZHAT'S OPERATIVE GYNECOLOGIC LAPAROSCOPY AND HYSTEROSCOPY, 3RD EDITION*

- Burney, R. O., Milki, A. A., Nezhat, C., Nezhat, F., Nezhat, C.
2008; 96–105
- **Cytogenetic testing of anembryonic pregnancies compared to embryonic missed abortions** *JOURNAL OF ASSISTED REPRODUCTION AND GENETICS*
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 - **Ectopic pregnancy rates with frozen compared with fresh blastocyst transfer** *FERTILITY AND STERILITY*
Jun, S. H., Milki, A. A.
2007; 88 (3): 629-631
 - **Risk of monozygotic twinning with blastocyst transfer decreases over time: an 8-year experience** *FERTILITY AND STERILITY*
Moayeri, S. E., Behr, B., Lathi, R. B., Westphal, L. M., Milki, A. A.
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 - **Effect of reduced oxygen concentrations on the outcome of in vitro fertilization** *FERTILITY AND STERILITY*
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 - **Optimal ovarian stimulation protocol for IVF-ET treatment in the patient with endometriosis.** *62nd Annual Meeting of the American-Society-for-Reproductive-Medicine (ASRM)*
Burney, R. O., Henne, M., Jacobson, M. T., Milki, A. A., Westphal, L. M., Lathi, R. B.
ELSEVIER SCIENCE INC.2006: S275–S275
 - **Comparison of GnRH antagonist cycles with and without oral contraceptive pretreatment in potential poor prognosis patients.** *Clinical and experimental obstetrics & gynecology*
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 - **Role of laparoscopic treatment of endometriosis in patients with failed in vitro fertilization cycles** *FERTILITY AND STERILITY*
Littman, E., Giudice, L., Lathi, R., Berker, B., Milki, A., Nezhat, C.
2005; 84 (6): 1574-1578
 - **Severe intrauterine growth restriction associated with the development of a submucosal leiomyoma during pregnancy - A case report** *JOURNAL OF REPRODUCTIVE MEDICINE*
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2005; 50 (7): 553-556
 - **Monochorionic triplet gestation after in vitro fertilization using donor oocytes: case report and review** *FERTILITY AND STERILITY*
Henne, M. B., Milki, A. A., Westphal, L. M.
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 - **Monozygotic twin birth after the transfer of a cleavage stage embryo resulting from a single pronucleated oocyte** *JOURNAL OF ASSISTED REPRODUCTION AND GENETICS*
Dasig, D., Lyon, J., Behr, B., Milki, A. A.
2004; 21 (12): 427-429
 - **Endometrial thickness and pregnancy rates - Reply of the authors** *FERTILITY AND STERILITY*
Quintero, R. B., Milki, A. A., Sharara, F. I.
2004; 82 (6): 1720
 - **Successful pregnancies in the setting of exaggerated endometrial thickness** *FERTILITY AND STERILITY*
Quintero, R. B., Sharara, F. I., Milki, A. A.

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● **Elective single blastocyst transfer** *FERTILITY AND STERILITY*

Milki, A. A., Hinckley, M. D., Westphal, L. M., Behr, B.
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Jun, S. H., Milki, A. A.
2004; 81 (6): 1701-1703

● **The effect of a two-hour, room temperature incubation of human spermatozoa in TEST-yolk buffer on the rate of fertilization in vitro** *JOURNAL OF ASSISTED REPRODUCTION AND GENETICS*

Jensen, J. R., Walker, J. H., Milki, A. A., Westphal, L., Behr, B.
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● **Rate of aneuploidy in miscarriages following in vitro fertilization and intracytoplasmic sperm injection** *FERTILITY AND STERILITY*

Lathi, R. B., Milki, A. A.
2004; 81 (5): 1270-1272

● **1000 office-based hysteroscopies prior to in vitro fertilization: feasibility and findings.** *JSLS : Journal of the Society of Laparoendoscopic Surgeons / Society of Laparoendoscopic Surgeons*

Hinckley, M. D., Milki, A. A.
2004; 8 (2): 103-107

● **Uterine position at real embryo transfer compared with mock embryo transfer** *HUMAN REPRODUCTION*

Henne, M. B., Milki, A. A.
2004; 19 (3): 570-572

● **Visualization of atypical hatching of a human blastocyst in vitro forming two identical embryos** *FERTILITY AND STERILITY*

Behr, B., Milki, A. A.
2003; 80 (6): 1502-1503

● **Rapid reaccumulation of hydrometra after drainage at embryo transfer in patients with hydrosalpinx** *58th Annual Meeting of the American-Society-for-Reproductive-Medicine*

Hinckley, M. D., Milki, A. A.
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● **Optimal day for embryo transfer? Reply** *FERTILITY AND STERILITY*

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● **Case report: Visualization of atypical hatching of a human blastocyst in vitro forming a monozygotic twin.**

Behr, B., Wang, H. B., Milki, A. A.
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● **Comparison of multi-dose versus individual ampules of Gonal-F for IVF.**

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ELSEVIER SCIENCE INC.2003: S244

● **Elective single blastocyst transfer.**

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● **Comparison of GnRH antagonist cycles with and without oral contraceptive pill pretreatment in poor responders.**

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● **Antagon versus flare: Examining the effect of IVF protocols in a population of poor responders.**

Littman, E. D., Lathi, R. B., Westphal, L. M., Milki, A. A.
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- **1,000 Office hysteroscopies for infertility: Feasibility and findings.**
Hinckley, M. D., Milki, A. A.
ELSEVIER SCIENCE INC.2003: S82–S83
- **Uterine position at real embryo transfer compared to mock embryo transfer.**
Henne, M. B., Jun, S., Milki, A. A.
ELSEVIER SCIENCE INC.2003: S130
- **Ectopic pregnancy rates with day 3 versus day 5 embryo transfer.**
Jun, S. H., Milki, A. A.
ELSEVIER SCIENCE INC.2003: S173–S174
- **Blastocyst cryopreservation: An update.**
Behr, B., Gebhardt, J., Milki, A. A.
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- **Management of uterus didelphys, obstructed hemivagina and ipsilateral renal agenesis - A case report** *JOURNAL OF REPRODUCTIVE MEDICINE*
Hinckley, M. D., Milki, A. A.
2003; 48 (8): 649-651
- **Percutaneous oocyte retrieval from an inguinal ovary** *FERTILITY AND STERILITY*
Hinckley, M. D., Milki, A. A.
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- **Exercise-induced ovarian torsion in the cycle following gonadotrophin therapy: Case report** *HUMAN REPRODUCTION*
Littman, E. D., Rydfors, J., Milki, A. A.
2003; 18 (8): 1641-1642
- **Comparison of the sex ratio with blastocyst transfer and cleavage stage transfer** *58th Annual Meeting of the American-Society-for-Reproductive-Medicine*
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- **The combination of urinary and recombinant HCG improves outcome in patients with decreased oocyte/follicle ratio in previous cycles** *EUROPEAN JOURNAL OF OBSTETRICS GYNECOLOGY AND REPRODUCTIVE BIOLOGY*
Littman, E. D., Milki, A. A.
2003; 109 (1): 60-62
- **Significance of one pronucleus before fertilization** *FERTILITY AND STERILITY*
Westphal, L. M., Rosencrantz, M., Behr, B., Milki, A. A.
2003; 79 (4): 1031-1033
- **Effect of ICSI on subsequent blastocyst development and pregnancy rates** *50th Annual Meeting of the Pacific-Coast-Reproductive-Society*
Westphal, L. M., Hinckley, M. D., Behr, B., Milki, A. A.
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- **Incidence of monozygotic twinning with blastocyst transfer compared to cleavage-stage transfer** *FERTILITY AND STERILITY*
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2003; 79 (3): 503-506
- **Effect of hysteroscopy performed in the cycle preceding controlled ovarian hyperstimulation on the outcome of in vitro fertilization** *FERTILITY AND STERILITY*
Mooney, S. B., Milki, A. A.
2003; 79 (3): 637-638
- **Ectopic pregnancy rates with day 3 versus day 5 embryo transfer: a retrospective analysis.** *BMC pregnancy and childbirth*
Milki, A. A., Jun, S. H.
2003; 3 (1): 7
- **Comparison of blastocyst transfer to day 3 transfer with assisted hatching in the older patient** *56th Annual Meeting of the American-Society-for-Reproductive-Medicine*

- Milki, A. A., Hinckley, M. D., Behr, B.
ELSEVIER SCIENCE INC.2002: 1244–47
- **Tissue sampling technique affects accuracy of karyotype from missed abortions** *JOURNAL OF ASSISTED REPRODUCTION AND GENETICS*
Lathi, R. B., Milki, A. A.
2002; 19 (11): 536-538
 - **Endometrioma of uterine serosa in a woman with mosaic Turner's syndrome receiving hormone replacement therapy** *56th Annual Meeting of the American-Society-for-Reproductive-Medicine*
Tazuke, S. I., Milki, A. A.
OXFORD UNIV PRESS.2002: 2977–80
 - **Laparoscopic control of a leaking inferior mesenteric vessel secondary to trocar injury.** *JSLS : Journal of the Society of Laparoendoscopic Surgeons / Society of Laparoendoscopic Surgeons*
Jacobson, M. T., Oesterling, S., Milki, A., Nezhat, C.
2002; 6 (4): 389-391
 - **Non-invasive embryo viability assessments: The influence of media constituents during the first culture interval.** *58th Annual Meeting of the American-Society-for-Reproductive-Medicine*
Dasig, D., Gebhardt, J., Lyon, J., Milki, A. A., Watt, J., Behr, B.
ELSEVIER SCIENCE INC.2002: S285–S285
 - **Accuracy of day 3 criteria for selecting the best embryos** *FERTILITY AND STERILITY*
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2002; 77 (6): 1191-1195
 - **Factors relating to a successful cryopreserved blastocyst transfer program** *56th Annual Meeting of the American-Society-for-Reproductive-Medicine*
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ELSEVIER SCIENCE INC.2002: 697–99
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2001; 16 (11): 2324-2326
 - **Recombinant gonadotropins.** *Current women's health reports*
Lathi, R. B., Milki, A. A.
2001; 1 (2): 157-163
 - **Failure to recover oocytes during IVF: Case reports and suggestions for management** *JOURNAL OF ASSISTED REPRODUCTION AND GENETICS*
Milki, A. A., Mooney, S. B.
2001; 18 (6): 352-353
 - **Concurrent IVF and spontaneous conception resulting in a quadruplet pregnancy.**
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ELSEVIER SCIENCE INC.2001: 13S–13S
 - **Vascular endothelial growth factor (VEGF) mRNA splice variants are differentially expressed in human blastocysts** *16th Annual Meeting of the European-Society-of-Human-Reproduction-and-Embryology (ESHRE)*
Krussell, J. S., Behr, B., Milki, A. A., Hirchenhain, J., Wen, Y., Bielfeld, P., Polan, M. L.
OXFORD UNIV PRESS.2001: 57–63
 - **Expression of vascular endothelial growth factor mRNA in human preimplantation embryos derived from tripromuclear zygotes** *15th Annual Conference of the European-Society-of-Human-Reproduction-and-Embryology*
Krussel, J. S., Behr, B., Hirchenhain, J., Wen, Y., Milki, A. A., Cupisti, S., Bielfeld, P., Polan, M. L.
ELSEVIER SCIENCE INC.2000: 1220–26
 - **Blastocyst-ET and monozygotic twinning** *15th Annual Conference of the European-Society-of-Human-Reproduction-and-Embryology*
Behr, B., Fisch, J. D., Racowsky, C., Miller, K., Pool, T. B., Milki, A. A.
SPRINGER/PLENUM PUBLISHERS.2000: 349–51
 - **Vascular endothelial growth factor (VEGF) mRNA isoforms are differentially expressed in human blastocysts**

Krussel, J. S., Behr, B., Milki, A. A., Wen, Y., Hirchenhain, J., Biefeld, P., Polan, M. L.
OXFORD UNIV PRESS.2000: 93–93

● **Comparison of blastocyst transfer with day 3 embryo transfer in similar patient populations** *FERTILITY AND STERILITY*

Milki, A. A., Hinckley, M. D., Fisch, J. D., Dasig, D., Behr, B.
2000; 73 (1): 126-129

● **Two-blastocyst transfer has similar pregnancy rates and a decreased multiple gestation rate compared with three-blastocyst transfer** *FERTILITY AND STERILITY*

Milki, A. A., Fisch, J. D., Behr, B.
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