

# Stanford

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## Amin Milki, M.D.

Professor of Obstetrics and Gynecology (Reproductive Endocrinology and Infertility)

Obstetrics & Gynecology - Reproductive Endocrinology & Infertility

### CLINICAL OFFICE (PRIMARY)

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### ACADEMIC CONTACT INFORMATION

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## Bio

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### CLINICAL FOCUS

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

### ACADEMIC APPOINTMENTS

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

### PROFESSIONAL EDUCATION

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

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Infertility

Assisted Reproductive Technologies

Microsurgery and Endoscopic Surgery

## Publications

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### PUBLICATIONS

- **Healthy euploid dizygotic twin birth after transfer of non-mosaic aneuploid embryos.** *Fertility and sterility*  
Tise, C. G., Verma, K., Rivera-Cruz, G., Chamanara, S., Gerber, S. K., Boyd, A., Mazzoni, R., Nel-Themaat, L., Behr, B., Milki, A. A., Lathi, R. B.  
2025
- **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*  
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- **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.  
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- **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 trophoctoderm 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.

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- **Karyotype of miscarriages in relation to maternal weight** *HUMAN REPRODUCTION*  
Landres, I. V., Milki, A. A., Lathi, R. B.  
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- **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.  
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- **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*  
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- **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.  
2008; 90 (6): 2351-2355
- **Two cases of cholestasis in the first trimester of pregnancy after ovarian hyperstimulation** *FERTILITY AND STERILITY*  
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 preimplanation genetic diagnosis** *FERTILITY AND STERILITY*  
Lathi, R. B., Westphal, L. M., Milki, A. A.  
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- **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.  
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2008: 96–105
- **Cytogenetic testing of anembryonic pregnancies compared to embryonic missed abortions** *JOURNAL OF ASSISTED REPRODUCTION AND GENETICS*  
Lathi, R. B., Mark, S. D., Westphal, L. M., Milki, A. A.  
2007; 24 (11): 521-524
- **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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- **Comparison of GnRH antagonist cycles with and without oral contraceptive pretreatment in potential poor prognosis patients.** *Clinical and experimental obstetrics & gynecology*  
Bendikson, K., Milki, A. A., Speck-Zulak, A., Westphal, L. M.  
2006; 33 (3): 145-147
- **The dilemma of endometriosis: is consensus possible with an enigma?** *FERTILITY AND STERILITY*  
Nezhath, C., Littman, E. D., Lathi, R. B., Berker, B., Westphal, L. M., Giudice, L. C., Milki, A. A.  
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- **Subclavian vein thrombosis following IVF and ovarian hyperstimulation: a case report.** *Human reproduction (Oxford, England)*  
Rao, A. K., Chitkara, U., Milki, A. A.  
2005; 20 (12): 3307-12
- **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., Nezhath, C.  
2005; 84 (6): 1574-8
- **Subclavian vein thrombosis following IVF and ovarian hyperstimulation: a case report** *HUMAN REPRODUCTION*  
Rao, A. K., Chitkara, U., Milki, A. A.  
2005; 20 (12): 3307-3312
- **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., Nezhath, 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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- **Monochorionic triplet gestation after in vitro fertilization using donor oocytes: case report and review** *FERTILITY AND STERILITY*  
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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.  
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- **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
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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.  
2004; 81 (6): 1697-1698
- **Assisted hatching is associated with a higher ectopic pregnancy rate** *FERTILITY AND STERILITY*  
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*  
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- **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.  
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2004; 19 (3): 570-572
- **Visualization of atypical hatching of a human blastocyst in vitro forming two identical embryos** *FERTILITY AND STERILITY*  
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- **Rapid reaccumulation of hydrometra after drainage at embryo transfer in patients with hydrosalpinx** *58th Annual Meeting of the American-Society-for-Reproductive-Medicine*  
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- **Optimal day for embryo transfer? Reply** *FERTILITY AND STERILITY*  
Milki, A. A., Hinckley, M. D., Behr, B.  
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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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- **Comparison of GnRH antagonist cycles with and without oral contraceptive pill pretreatment in poor responders.**  
Bendikson, K., Milki, A. A., Speck-Zulak, A., Westphal, L. M.  
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- **Antagon versus flare: Examining the effect of IVF protocols in a population of poor responders.**  
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- **1,000 Office hysteroscopies for infertility: Feasibility and findings.**  
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- **Uterine position at real embryo transfer compared to mock embryo transfer.**  
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ELSEVIER SCIENCE INC.2003: S130
- **Ectopic pregnancy rates with day 3 versus day 5 embryo transfer.**  
Jun, S. H., Milki, A. A.  
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- **Blastocyst cryopreservation: An update.**  
Behr, B., Gebhardt, J., Milki, A. A.  
ELSEVIER SCIENCE INC.2003: S149
- **Management of uterus didelphys, obstructed hemivagina and ipsilateral renal agenesis - A case report** *JOURNAL OF REPRODUCTIVE MEDICINE*  
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- **Comparison of the sex ratio with blastocyst transfer and cleavage stage transfer** *58th Annual Meeting of the American-Society-for-Reproductive-Medicine*  
Milki, A. A., Jun, S. H., Hinckley, M. D., Westphal, L. W., Giudice, L. C., Behr, B.  
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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.  
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- **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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- Milki, A. A., Jun, S. H., Hinckley, M. D., Behr, B., Giudice, L. C., Westphal, L. M.  
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- **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.  
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  - **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*  
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  - **Tissue sampling technique affects accuracy of karyotype from missed abortions** *JOURNAL OF ASSISTED REPRODUCTION AND GENETICS*  
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  - **Laparoscopic control of a leaking inferior mesenteric vessel secondary to trocar injury.** *JLS : 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*  
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  - **Accuracy of day 3 criteria for selecting the best embryos** *FERTILITY AND STERILITY*  
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  - **Factors relating to a successful cryopreserved blastocyst transfer program** *56th Annual Meeting of the American-Society-for-Reproductive-Medicine*  
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  - **Concurrent IVF and spontaneous conception resulting in a quadruplet pregnancy** *HUMAN REPRODUCTION*  
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2001; 16 (11): 2324-2326
  - **Recombinant gonadotropins.** *Current women's health reports*  
Lathi, R. B., Milki, A. A.  
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  - **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
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