

Stanford



Gayathree (Gaya) Murugappan, MD

Instructor, Obstetrics & Gynecology - Reproductive Endocrinology & Infertility

CLINICAL OFFICES

- **Stanford Medicine Fertility and Reproductive Health**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Tracy Lindsay - Fellowship Coordinator

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Bio

CLINICAL FOCUS

- Female infertility
- Robotic surgery
- Recurrent pregnancy loss and miscarriage
- Obstetrics and Gynecology

ACADEMIC APPOINTMENTS

- Instructor, Obstetrics & Gynecology - Reproductive Endocrinology & Infertility
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Associate Director, Fellowship in Reproductive Endocrinology and Infertility, Stanford, (2020- present)
- Director, ROSE (Reproductive research On Specimens in Excess) Biobank, Stanford, (2020- present)
- Medical Director, RENEW Biobank, Stanford, (2020- present)

HONORS AND AWARDS

- Instructor K award support, Stanford Maternal Child Health Research Institute (MCHRI) (2020)
- Seed grant recipient, Stanford Women's Health and Sex Differences in Medicine (WHSDM) Center (2020)
- Stanford Women's Reproductive Health Research Career Development Scholar (WRHR K12), Stanford, NIH/NICHD (2020)
- Seed grant recipient, Stanford Women's Health and Sex Differences in Medicine (WHSDM) Center (2019)

- Excellence in Laparoscopic Surgery, Society for Laparoscopic Surgeons (2016)
- Resident in Training Award, American Society for Reproductive Medicine (2014)

PROFESSIONAL EDUCATION

- Fellowship: Stanford Health Reproductive Endocrinology and Infertility Fellowship (2020) CA
- Board Certification: Obstetrics and Gynecology, American Board of Obstetrics and Gynecology (2019)
- Residency: Stanford University Obstetrics and Gynecology Residency (2017) CA
- Medical Education: Harvard Medical School (2013) MA
- BS, Johns Hopkins University , Biomedical Engineering, Spanish Literature (2009)

PATENTS

- Antonio Santillan, Robert Bristow, Gayathree Murugappan, Joshua Liu, Anshuman Gupta, Brian Liu, Sameer Manek, Michael Bisogno, Kevin Yeh and Vicki Zhou. "United States Patent 20120035414 Contoured Elastomeric Barrier for Bowel Retention and Method of Use", Feb 9, 2012

LINKS

- RENEW Biobank: <https://med.stanford.edu/hesc/donations/tissue.html>
- Fertility and Pregnancy Loss Research: <http://med.stanford.edu/lathi.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Infertility as a marker of future health

Biobanking

Recurrent pregnancy loss

Publications

PUBLICATIONS

- **Association between paternal health and severe maternal morbidity: analysis of US claims data**
Murugappan, G., Li, S., Leonard, S. A., Druzin, M. L., Eisenberg, M. L.
MOSBY-ELSEVIER.2021: S117–S118
- **Association of Infertility and All-Cause Mortality: Analysis of US Claims Data.** *American journal of obstetrics and gynecology*
Murugappan, G. n., Li, S. n., Alvero, R. J., Luke, B. n., Eisenberg, M. L.
2021
- **ASSOCIATION BETWEEN ESTRADIOL LEVELS AND OBSTETRIC OUTCOMES IN LETROZOLE-STIMULATED FROZEN EMBRYO TRANSFER CYCLES.**
Zhang, W. Y., Ramachandran, M. K., Murugappan, G., Aghajanova, L., Lathi, R.
ELSEVIER SCIENCE INC.2020: E304
- **PRE-CONCEPTION RISK PREDICTION INDEX FOR SEVERE MATERNAL MORBIDITY AMONG INFERTILE WOMEN.**
Murugappan, G., Alvero, R. J., Lyell, D. J., Khandelwal, A., Leonard, S. A.
ELSEVIER SCIENCE INC.2020: E65
- **ASSOCIATION BETWEEN INFERTILITY AND MORTALITY: ANALYSIS OF US CLAIMS DATA.**
Murugappan, G., Li, S., Alvero, R. J., Eisenberg, M. L.
ELSEVIER SCIENCE INC.2020: E50–E51
- **Epigenetic clock measuring age acceleration via DNA methylation levels in blood is associated with decreased oocyte yield.** *Journal of assisted reproduction and genetics*
Monseur, B., Murugappan, G., Bentley, J., Teng, N., Westphal, L.

2020

- **INCREASED RISK OF SEVERE MATERNAL MORBIDITY AMONG INFERTILE WOMEN: ANALYSIS OF US CLAIMS DATA.** *American journal of obstetrics and gynecology*

Murugappan, G. n., Li, S. n., Lathi, R. B., Baker, V. L., Luke, B. n., Eisenberg, M. L.

2020

- **BLASTOCYST GRADE PREDICTS OUTCOME AFTER FROZEN EUPLOID TRANSFER IN PATIENTS WITH RECURRENT PREGNANCY LOSS.**

Murugappan, G., Kim, J. G., Kort, J. D., Hanson, B. M., Neal, S. A., Tiegs, A. W., Osman, E. K., Scott, R., Lathi, R. B.

ELSEVIER SCIENCE INC.2019: E151

- **PREIMPLANTATION GENETIC TESTING FOR ANEUPLOIDY (PGT-A) REDUCES MISCARRIAGE AND IMPROVES LIVE BIRTH RATES IN RECURRENT PREGNANCY LOSS PATIENTS.**

Kim, J. G., Murugappan, G., Lathi, R. B., Kort, J. D., Hanson, B. M., Tiegs, A. W., Osman, E. K., Neal, S. A., Scott, R.

ELSEVIER SCIENCE INC.2019: E401

- **IS ANTIMULLERIAN HORMONE PREDICTIVE OF OUTCOMES AFTER PGT-A IN PATIENTS WITH RECURRENT PREGNANCY LOSS?**

Murugappan, G., Shahine, L. K., Lathi, R. B.

ELSEVIER SCIENCE INC.2019: E403

- **Increased risk of incident chronic medical conditions in infertile women: analysis of US claims data**

Murugappan, G., Li, S., Lathi, R. B., Baker, V. L., Eisenberg, M. L.

MOSBY-ELSEVIER.2019

- **Risk of cancer in infertile women: analysis of US claims data** *HUMAN REPRODUCTION*

Murugappan, G., Li, S., Lathi, R. B., Baker, V. L., Eisenberg, M. L.

2019; 34 (5): 894–902

- **ATTITUDES TOWARDS POSTHUMOUS REPRODUCTION IN PATIENTS UNDERGOING EMBRYO OR GAMETE CRYOPRESERVATION.**

Vyas, N. M., Murugappan, G., Westphal, L. M.

ELSEVIER SCIENCE INC.2019: E51

- **EPIGENETIC CLOCK MEASURING AGE ACCELERATION VIA DNA METHYLATION LEVELS IN BLOOD IS ASSOCIATED WITH DECREASED OOCYTE YIELD.**

Monseur, B., Murugappan, G., Bentley, J., Teng, N., Westphal, L.

ELSEVIER SCIENCE INC.2019: E4–E5

- **KARYOTYPE OF FIRST MISCARRIAGE IS PROGNOSTIC OF SUBSEQUENT PREGNANCY OUTCOME.**

Murugappan, G., Vyas, N. M., Lathi, R. B.

ELSEVIER SCIENCE INC.2019: E11–E12

- **Risk of cancer in infertile women: analysis of us claims data.** *Human reproduction (Oxford, England)*

Murugappan, G., Li, S., Lathi, R. B., Baker, V. L., Eisenberg, M. L.

2019

- **Increased Risk of Incident Chronic Medical Conditions in Infertile Women: Analysis of Us Claims Data.** *American journal of obstetrics and gynecology*

Murugappan, G., Li, S., Lathi, R. B., Baker, V. L., Eisenberg, M. L.

2019

- **Hormone replacement versus natural frozen embryo transfer for euploid embryos.** *Archives of gynecology and obstetrics*

Wang, A. n., Murugappan, G. n., Kort, J. n., Westphal, L. n.

2019

- **Antimullerian hormone is a predictor of live birth in patients with recurrent pregnancy loss.** *Fertility research and practice*

Murugappan, G., Shahine, L., Lathi, R. B.

2019; 5: 2

- **IS ANTIMULLERIAN HORMONE (AMH) PREDICTIVE OF REPRODUCTIVE POTENTIAL IN PATIENTS WITH RECURRENT PREGNANCY LOSS (RPL)?**

Murugappan, G., Shahine, L., Lathi, R. B.

ELSEVIER SCIENCE INC.2018: E39–E40

- **Gestational carrier in assisted reproductive technology** *FERTILITY AND STERILITY*
Murugappan, G., Farland, L. V., Missmer, S. A., Correia, K. F., Anchan, R. M., Ginsburg, E. S.
2018; 109 (3): 420–28
- **Reply: PGS for recurrent pregnancy loss-still an open question** *HUMAN REPRODUCTION*
Murugappan, G., Lathi, R.
2017; 32 (2): 478–79
- **Reply: The value of cytogenetic analysis of the product of conception before preimplantation genetic screening** *HUMAN REPRODUCTION*
Murugappan, G., Lathi, R.
2017; 32 (2): 479–80
- **Intent to treat analysis of in vitro fertilization and preimplantation genetic screening versus expectant management in patients with recurrent pregnancy loss.** *Human reproduction*
Murugappan, G., Shahine, L. K., Perfetto, C. O., Hickok, L. R., Lathi, R. B.
2016; 31 (8): 1668-1674
- **AGE-STRATIFIED OUTCOMES ARE SIMILAR BETWEEN PGS AND EXPECTANT MANAGEMENT IN RPL PATIENTS**
Murugappan, G., Shahine, L., Hickok, L., Lathi, R. B.
ELSEVIER SCIENCE INC.2016: E32
- **Cost-effectiveness analysis of preimplantation genetic screening and in vitro fertilization versus expectant management in patients with unexplained recurrent pregnancy loss** *FERTILITY AND STERILITY*
Murugappan, G., Ohno, M. S., Lathi, R. B.
2015; 103 (5): 1215-1220
- **Time to next pregnancy in spontaneous pregnancies versus treatment cycles in fertile patients with recurrent pregnancy loss.** *Fertility research and practice*
Perfetto, C. O., Murugappan, G., Lathi, R. B.
2015; 1: 5
- **Separation of miscarriage tissue from maternal decidua for chromosome analysis** *FERTILITY AND STERILITY*
Murugappan, G., Gustin, S., Lathi, R. B.
2014; 102 (4): E9-E10