

# Stanford

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## Anna Girsen

Director of Research, Obstetrics & Gynecology - Maternal Fetal Medicine

### Bio

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#### BIO

Over 17 years of experience in the medical science field including Director of Research, Clinical Researcher, and Primary Care Physician positions. Track record of success in team building and leadership. Experience on conduct and oversight of a wide array of research studies from basic and translational science to population-based studies and randomized controlled trials.

#### CURRENT ROLE AT STANFORD

Leads the basic, translational and clinical research functions across the department including oversight of over 50 research staff members.

#### EDUCATION AND CERTIFICATIONS

- MD, PhD, UNIVERSITY OF OULU, FINLAND , Medical Science Dissertation: Preeclampsia and maternal type-1 diabetes: new insights into maternal and fetal pathophysiology (2009)

#### LINKS

- LinkedIn: [www.linkedin.com/in/annagirsen/](http://www.linkedin.com/in/annagirsen/)
- Dunlevie MFM Center: [dunleviemfm.stanford.edu](http://dunleviemfm.stanford.edu)

### Publications

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#### PUBLICATIONS

- **In Utero Hematopoietic Stem Cell Transplantation for Fanconi Anemia.** *Blood advances*  
Swartzrock, L., Dib, C., Denis, M., Willner, H., Ho, K., Haslett, E., Han, J., Pan, W., Byrne-Steele, M., Brown, B., Krampf, M. R., Girsen, A., Blumenfeld, et al  
2024
- **Trends in racial/ethnic disparities in postpartum hospital readmissions in California from 1997 to 2018.** *AJOG global reports*  
Tucker, C. M., Ma, C., Mujahid, M. S., Butwick, A. J., Girsen, A. I., Gibbs, R. S., Carmichael, S. L.  
2024; 4 (2): 100331
- **Hypertensive disorders of pregnancy and severe maternal morbidity according to race/ ethnicity, California 2007-2018**  
Mayo, J. A., Perlman, N., Girsen, A., Carmichael, S. L., Leonard, S. A.  
MOSBY-ELSEVIER.2024: S411
- **Early postpartum hospital encounters among patients with genitourinary and wound infections during hospitalization for birth.** *American journal of perinatology*  
Leonard, S. A., Girsen, A., Trepman, P., Carmichael, S. L., Darmawan, K., Butwick, A., Gibbs, R.  
2023
- **Vaginal Progesterone is Associated with Intrahepatic Cholestasis of Pregnancy.** *American journal of perinatology*  
Tsur, A., Leonard, S. A., Kan, P., Datoc, I., Girsen, A., Shaw, G. M., Stevenson, D. K., El-Sayed, Y. Y., Druzin, M. L., Blumenfeld, Y. J.

2023

- **Increased rates of postpartum emergency department visits and inpatient readmissions in people with epilepsy**  
Darmawan, K. F., Leonard, S. A., Meador, K., McElrath, T. F., Carmichael, S. L., Lyell, D. J., El-Sayed, Y. Y., Herrero, T., Druzin, M. L., Panelli, D. M.  
MOSBY-ELSEVIER.2023: S163
- **Severe maternal morbidity among people with cardiac disease: getting to the heart of the problem**  
Darmawan, K. F., Panelli, D. M., Mayo, J. A., Leonard, S. A., Girsen, A., Carmichael, S. L., Bianco, K.  
MOSBY-ELSEVIER.2023: S163-S164
- **Postpartum care visits among commercially insured women in the United States.** *AJOG global reports*  
Butwick, A. J., Bentley, J., Daw, J., Sultan, P., Girsen, A., Gibbs, R. S., Guo, N.  
2022; 2 (4): 100106
- **Addressing postpartum contraception practices utilizing a multidisciplinary Pregnancy Heart Team approach.** *AJOG global reports*  
Miller, H. E., Do, S. C., Cruz, G., Panelli, D. M., Leonard, S. A., Girsen, A., Lee, C. J., Khandelwal, A., Shaw, K. A., Bianco, K.  
2022; 2 (4): 100100
- **Early postpartum readmissions: identifying risk factors at birth hospitalization.** *AJOG global reports*  
Girsen, A. I., Leonard, S. A., Butwick, A. J., Joudi, N., Carmichael, S. L., Gibbs, R. S.  
2022; 2 (4): 100094
- **Effect of gestational age at first delivery and interpregnancy interval on the recurrence of clinical chorioamnionitis.** *AJOG global reports*  
Sperling, M. M., Sie, L., Leonard, S. A., Girsen, A. I., Lee, H. C., Gibbs, R. S.  
2022; 2 (4): 100116
- **Postpartum Readmission for Hypertension After Discharge on Labetalol or Nifedipine.** *Obstetrics and gynecology*  
Do, S. C., Leonard, S. A., Kan, P., Panelli, D. M., Girsen, A. I., Lyell, D. J., El-Sayed, Y. Y., Druzin, M. L., Herrero, T.  
2022
- **Using Longitudinally Linked Data to Measure Severe Maternal Morbidity Beyond the Birth Hospitalization in California.** *Obstetrics and gynecology*  
Carmichael, S. L., Girsen, A. I., Ma, C., Main, E. K., Gibbs, R. S.  
2022
- **Leukocyte telomere dynamics across gestation in uncomplicated pregnancies and associations with stress.** *BMC pregnancy and childbirth*  
Panelli, D. M., Leonard, S. A., Wong, R. J., Becker, M., Mayo, J. A., Wu, E., Girsen, A. I., Gotlib, I. H., Aghaeepour, N., Druzin, M. L., Shaw, G. M., Stevenson, D. K., Bianco, et al  
2022; 22 (1): 381
- **Treatment for Mild Chronic Hypertension during Pregnancy.** *The New England journal of medicine*  
Tita, A. T., Szychowski, J. M., Boggess, K., Dugoff, L., Sibai, B., Lawrence, K., Hughes, B. L., Bell, J., Aagaard, K., Edwards, R. K., Gibson, K., Haas, D. M., Plante, et al  
2022
- **Hospital Readmissions after Postpartum Emergency Department Visit**  
Girsen, A., Leonard, S. A., Carmichael, S. L., Gibbs, R. S., Butwick, A.  
MOSBY-ELSEVIER.2022: S517-S518
- **Homelessness in pregnancy: perinatal outcomes.** *Journal of perinatology : official journal of the California Perinatal Association*  
St Martin, B. S., Spiegel, A. M., Sie, L., Leonard, S. A., Seidman, D., Girsen, A. I., Shaw, G. M., El-Sayed, Y. Y.  
2021
- **Novel Approaches to Develop Critical Reference Materials for Noninvasive Prenatal Testing: A Pilot Study.** *The journal of applied laboratory medicine*  
Bianco, K., Sherwin, E. B., Konigshofer, Y., Girsen, A. I., Sylvester, K. G., Garlick, R. K.  
2021
- **Postpartum depression in mothers with pregnancies complicated by fetal cardiac anomaly.** *Journal of perinatology : official journal of the California Perinatal Association*  
Waldrop, A. R., Sherwin, E. B., Anderson, J. N., Boissiere, J. C., Hintz, S. R., Maskatia, S. A., Girsen, A. I., Blumenfeld, Y. J.  
2021

- **Risk Factors for Postpartum Readmission Among Women After Having a Stillbirth.** *American journal of obstetrics & gynecology MFM*  
DiTosto, J. D., Liu, C., Wall-Wieler, E., Gibbs, R. S., Girsen, A. I., El-Sayed, Y. Y., Butwick, A. J., Carmichael, S. L.  
2021: 100345
- **Perceived stress and spontaneous preterm birth in twin gestations**  
Blumenfeld, Y. J., Leonard, S. A., Wilson, H. W., Girsen, A., Datoc, I., Lyell, D. J.  
MOSBY-ELSEVIER.2021: S418–S419
- **Severe maternal and neonatal morbidity after attempted operative vaginal delivery.** *American journal of obstetrics & gynecology MFM*  
Panelli, D. M., Leonard, S. A., Joudi, N. n., Girsen, A. I., Judy, A. E., El-Sayed, Y. Y., Gilbert, W. M., Lyell, D. J.  
2021: 100339
- **Individualized growth assessment in pregnancies complicated by fetal gastroschisis.** *The journal of maternal-fetal & neonatal medicine : the official journal of the European Association of Perinatal Medicine, the Federation of Asia and Oceania Perinatal Societies, the International Society of Perinatal Obstetricians*  
Sherwin, E., Deter, R., Joudi, N., Trepman, P., Lee, W., El-Sayed, Y. Y., Girsen, A. I., Datoc, I., Hintz, S. R., Blumenfeld, Y. J.  
2021: 1-11
- **Lactate and Procalcitonin Levels in Peripartum Women with Intraamniotic Infection.** *American journal of obstetrics & gynecology MFM*  
DO, S. C., Miller, H. n., Leonard, S. A., Datoc, I. A., Girsen, A. I., Kappagoda, S. n., Gibbs, R. S., Aziz, N. n.  
2021: 100367
- **Cellular Aging in Pregnancy: Telomere Dynamics Across Gestation.**  
Panelli, D. M., Leonard, S. A., Wong, R. J., Girsen, A. I., Baskovic, M., Stevenson, D. K., Bianco, K.  
SPRINGER HEIDELBERG.2020: 127A–128A
- **Preterm birth outcomes among Asian women by maternal place of birth.** *Journal of perinatology : official journal of the California Perinatal Association*  
Girsen, A. I., Mayo, J. A., Datoc, I. A., Karakash, S. n., Gould, J. B., Stevenson, D. K., El-Sayed, Y. Y., Shaw, G. M.  
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- **The obstetric research landscape: a cross-sectional analysis of clinical trials from 2007-2020.** *American journal of obstetrics & gynecology MFM*  
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2020: 100253
- **Maternal Health after Stillbirth: Postpartum Hospital Readmission in California.** *American journal of perinatology*  
Wall-Wieler, E. n., Butwick, A. J., Gibbs, R. S., Lyell, D. J., Girsen, A. I., El-Sayed, Y. Y., Carmichael, S. L.  
2020
- **A Genome-Wide Analysis of Clinical Chorioamnionitis among Preterm Infants** *AMERICAN JOURNAL OF PERINATOLOGY*  
Spiegel, A. M., Li, J., Oehlert, J. W., Mayo, J. A., Quaintance, C. C., Girsen, A. I., Druzin, M. L., El-Sayed, Y. Y., Shaw, G. M., Stevenson, D. K., Gibbs, R. S.  
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- **In fetuses with congenital lung masses, decreased ventricular and atrioventricular valve dimensions are associated with lesion size and clinical outcome.** *Prenatal diagnosis*  
Mardy, C., Blumenfeld, Y. J., Arunamata, A. A., Girsen, A. I., Sylvester, K. G., Halabi, S., Rubesova, E., Hintz, S. R., Tacy, T. A., Maskatia, S. A.  
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2019
- **Rate and causes of severe maternal morbidity at readmission: California births in 2008-2012.** *Journal of perinatology : official journal of the California Perinatal Association*  
Girsen, A. I., Sie, L., Carmichael, S. L., Lee, H. C., Foeller, M. E., Druzin, M. L., Gibbs, R. S.  
2019
- **Effects of gestational age at delivery and type of labor on neonatal outcomes among infants with gastroschisis.** *The journal of maternal-fetal & neonatal medicine : the official journal of the European Association of Perinatal Medicine, the Federation of Asia and Oceania Perinatal Societies, the International Society of Perinatal Obstetricians*  
Girsen, A. I., Davis, A. S., Hintz, S. R., Fluharty, E., Sherwin, K., Trepman, P., Desai, A., Mansour, T., Sylvester, K. G., Oshiro, B., Blumenfeld, Y. J.

2019: 1–191

- **Severe Maternal Morbidity Among Stillbirth and Live Birth Deliveries in California.** *Obstetrics and gynecology*  
Wall-Wieler, E., Carmichael, S. L., Gibbs, R. S., Lyell, D. J., Girsen, A. I., El-Sayed, Y. Y., Butwick, A. J.  
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- **Vasa previa and extreme prematurity: a population-based study** *JOURNAL OF PERINATOLOGY*  
Yeaton-Massey, A., Girsen, A., Mayo, J. A., Blumenfeld, Y. J., El-Sayed, Y. Y., Stevenson, D. K., Shaw, G. M.  
2019; 39 (3): 475–80
- **Vasa previa and extreme prematurity: a population-based study.** *Journal of perinatology : official journal of the California Perinatal Association*  
Yeaton-Massey, A., Girsen, A. I., Mayo, J. A., Blumenfeld, Y. J., El-Sayed, Y. Y., Stevenson, D. K., Shaw, G. M.  
2019
- **Preterm birth occurrence among Asian women relative to their place of birth**  
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- **Obstetric and neonatal outcomes in pregnancies complicated by fetal lung masses: does final histology matter?** *The journal of maternal-fetal & neonatal medicine : the official journal of the European Association of Perinatal Medicine, the Federation of Asia and Oceania Perinatal Societies, the International Society of Perinatal Obstetricians*  
Anderson, J. N., Girsen, A. I., Hintz, S. R., El-Sayed, Y. Y., Davis, A. S., Barth, R. A., Halabi, S. n., Hazard, F. K., Sylvester, K. G., Bruzoni, M. n., Blumenfeld, Y. J.  
2019: 1–7
- **Characteristics of women with multiple postpartum hospital admissions**  
Girsen, A. I., Sie, L., Carmichael, S., Foeller, M. E., Druzin, M. L., Lee, H. C., Gibbs, R. S.  
MOSBY-ELSEVIER.2018: S461–S462
- **Prediction of neonatal respiratory distress in pregnancies complicated by fetal lung masses.** *Prenatal diagnosis*  
Girsen, A. I., Hintz, S. R., Sammour, R., Naqvi, A., El-Sayed, Y. Y., Sherwin, K., Davis, A. S., Chock, V. Y., Barth, R. A., Rubesova, E., Sylvester, K. G., Chitkara, R., Blumenfeld, et al  
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- **Postpartum readmission and severe maternal morbidity in California**  
Girsen, A., Lee, L. C., Carmichael, S. L., Foeller, M., Druzin, M. L., Gibbs, R.  
MOSBY-ELSEVIER.2017: S112
- **Effect of antepartum meconium staining on perinatal and neonatal outcomes among pregnancies with gastroschisis.** *journal of maternal-fetal & neonatal medicine*  
Girsen, A. I., Wallenstein, M. B., Davis, A. S., Hintz, S. R., Desai, A. K., Mansour, T., Merritt, T. A., Druzin, M. L., Oshiro, B. T., Blumenfeld, Y. J.  
2016; 29 (15): 2500-2504
- **Association between small-for-gestational-age and neurodevelopmental impairment at two years of life among infants born at preterm gestational ages**  
Girsen, A., Do, S., El-Sayed, Y. Y., Blumenfeld, Y. J.  
MOSBY-ELSEVIER.2016: S76
- **Twin gestation and neurodevelopmental outcomes: is there a difference at two years of life between the first and the second twin?**  
Girsen, A., El-Sayed, Y. Y., Blumenfeld, Y. J.  
MOSBY-ELSEVIER.2016: S216
- **Temporal and geographic patterns of home births in California 1991-2010**  
Girsen, A., Mayo, J. A., Blumenfeld, Y. J., Lyell, D. J., Druzin, M. L., El-Sayed, Y. Y., Shaw, G. M.  
MOSBY-ELSEVIER.2016: S395
- **Effect of antepartum meconium staining on perinatal and neonatal outcomes among pregnancies with gastroschisis** *JOURNAL OF MATERNAL-FETAL & NEONATAL MEDICINE*  
Girsen, A. I., Wallenstein, M. B., Davis, A. S., Hintz, S. R., Desai, A. K., Mansour, T., Merritt, T. A., Druzin, M. L., Oshiro, B. T., Blumenfeld, Y. J.  
2016; 29 (15): 2499-2503
- **Peripartum and neonatal outcomes of small- for- gestational- age infants with gastroschisis** *PRENATAL DIAGNOSIS*

Girsen, A. I., Do, S., Davis, A. S., Hintz, S. R., Desai, A. K., Mansour, T., Merritt, T. A., Oshiro, B. T., El-Sayed, Y. Y., Blumenfeld, Y. J.  
2015; 35 (5): 477-482

- **In reply. *Obstetrics and gynecology***  
Girsen, A. I., Osmundson, S. S., Garabedian, M. J., Naqvi, M., Lyell, D. J.  
2015; 125 (3): 740-?
- **Does the Ratio of Membrane Rupture To Labor Duration Predict Maternal Morbidity Among Women With a Successful VBAC?**  
Girsen, A. I., Shachar, B., Blumenfeld, Y. J., Aziz, N., El-Sayed, Y. Y., Butwick, A. J.  
SAGE PUBLICATIONS INC.2015: 341A
- **Factors Associated With Recurrent Preterm Birth Among Underweight Women**  
Girsen, A. I., Mayo, J., Matthew, W. B., Gould, J. B., Carmichael, S. L., Lyell, D. J., Shaw, G. M.  
SAGE PUBLICATIONS INC.2015: 150A
- **Body Mass Index and Operative Times at Cesarean Delivery** *OBSTETRICS AND GYNECOLOGY*  
Girsen, A. I., Osmundson, S. S., Naqvi, M., Garabedian, M. J., Lyell, D. J.  
2014; 124 (4): 684-689
- **Predictors for Perioperative Injury at Cesarean Delivery.**  
Girsen, A. I., Butwick, A., Faucett, A. M., Lyell, D. J.  
SAGE PUBLICATIONS INC.2014: 158A–159A
- **Predictors of Severe Perineal Complication among Women with Vaginal Birth after Cesarean Section.**  
Girsen, A. I., Shachar, B., Lyell, D. J.  
SAGE PUBLICATIONS INC.2014: 159A
- **Total weight gain and incision to delivery interval during cesarean delivery** *33rd Annual Pregnancy Meeting of the Society-for-Maternal-Fetal-Medicine (SMFM)*  
Girsen, A., Osmundson, S., Lyell, D.  
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- **BMI and operative times at cesarean delivery**  
Girsen, A., Osmundson, S., Naqvi, M., Lyell, D.  
MOSBY-ELSEVIER.2013: S331
- **Magnesium sulfate exposure and neonatal intensive care unit admission**  
Girsen, A., Greenberg, M., El-Sayed, Y., Carvalho, B., Lyell, D.  
MOSBY-ELSEVIER.2013: S56
- **Comprehensive Maternal Serum Proteomic Profiles of Preclinical and Clinical Preeclampsia** *JOURNAL OF PROTEOME RESEARCH*  
Rasanen, J., Girsen, A., Lu, X., Lapidus, J. A., Standley, M., Reddy, A., Dasari, S., Thomas, A., Jacob, T., Pouta, A., Surcel, H., Tolosa, J. E., Gravett, et al  
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- **MATERNAL SERUM BIOMARKERS OF PLACENTAL INSUFFICIENCY IN PREECLAMPSIA**  
Rasanen, J., Girsen, A., Thomas, A., Standley, M., Jacob, T., Michaels, J., Reddy, A., Lu, X., Lapidus, J., Gravett, M., Nagalla, S.  
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- **MATERNAL SERUM BIOMARKERS OF GESTATIONAL HYPERTENSION DISTINCT FROM PREECLAMPSIA**  
Rasanen, J., Girsen, A., Reddy, A., Standley, M., Thomas, A., Jacob, T., Michaels, J., Lu, X., Lapidus, J., Gravett, M., Nagalla, S.  
MOSBY-ELSEVIER.2008: S6
- **Increased fetal cardiac natriuretic peptide secretion in type-1 diabetic pregnancies** *ACTA OBSTETRICIA ET GYNECOLOGICA SCANDINAVICA*  
Girsen, A., Ala-Kopsala, M., Makikallio, K., Vuolteenaho, O., Rasanen, J.  
2008; 87 (3): 307-312
- **Maternal serum biomarkers in preeclampsia**  
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- **Comprehensive proteomic analysis of first, second and third trimester maternal serum: Gestational age-dependent changes in the maternal serum proteome**  
Stephenson-Famy, A., Hitti, J., Lu, X., Lapidus, J., Girsen, A., Rasanen, J., Gravett, M., Nagalla, S.  
MOSBY-ELSEVIER.2007: S93
- **First trimester maternal serum biomarkers for prediction of preeclampsia**  
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- **The relationship between human fetal cardiovascular hemodynamics and serum erythropoietin levels in growth-restricted fetuses**  
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MOSBY-ELSEVIER.2007: 467.e1-6
- **Fetal cardiac natriuretic peptides are increased in type I diabetic pregnancies**  
Girsen, A., Makikallio, K., Ala-Kopsala, M., Vuolteenaho, O., Rasanen, J.  
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- **First-trimester detection of preeclampsia by serum glycoproteome analysis**  
Girsen, A., Rasanen, J., Tolosa, J., Pereira, L., Gravett, M., Nagalla, S.  
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- **Prediction of preeclampsia during early gestation using proteomic analysis of maternal serum**  
Rasanen, J., Tolosa, J. E., Girsen, A., Pereira, L., Fang, L., Lapidus, J., Gravett, M., Nagalla, S.  
MOSBY-ELSEVIER.2006: S145
- **Umbilical artery erythropoietin and human fetal cardiovascular hemodynamics in intrauterine growth restriction**  
Girsen, A., Makikallio, K., Teramo, K., Hamalainen, E., Hiilesmaa, Rasanen, J.  
MOSBY, INC.2005: S25
- **Human fetal cardiovascular hemodynamics and umbilical artery N-terminal peptide of prob-type natriuretic peptide in placental insufficiency**  
Girsen, A., Ala-Kopsala, M., Makikallio, K., Vuolteenaho, O., Rasanen, J.  
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