Stanford



Deirdre J. Lyell, M.D.

Dunlevie Endowed Professor of Maternal-Fetal Medicine and Professor, by courtesy, of Pediatrics

Obstetrics & Gynecology - Maternal Fetal Medicine

NIH Biosketch available Online Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Obstetrics Clinic**

  770 Welch Rd Ste 201

  Palo Alto, CA 94304

  Tel (650) 498-4069 **Fax** (650) 725-2062

ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

  Jacquie Laskey - Administrative Assistant

  Email jlaskey@stanfordchildrens.org

  Tel 725-8623

Bio

CLINICAL FOCUS

- Maternal - Fetal Medicine
- Maternal and Fetal Medicine

ACADEMIC APPOINTMENTS

- Professor-Univ Med Line, Obstetrics & Gynecology - Maternal Fetal Medicine
- Professor-Univ Med Line (By courtesy), Pediatrics - Neonatology
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Co-Director, California Maternal Quality Care Collaborative, (2024- present)
- Director, Perinatal Epidemiology and Population Health, Dunlevie Maternal-Fetal Medicine Center, Department of Obstetrics and Gynecology, (2021-present)
- Medical Director, Labor and Delivery, Department of Obstetrics and Gynecology, (2018- present)
- Associate Division Director, Maternal-Fetal Medicine, (2016- present)
- Co-Chair, Maternal Child Health Research Initiative Clinician Educator Grant Review Committee, Stanford, (2014- present)
- Alternate Principal Investigator, Eunice Kennedy Shriver N.I.C.H.D. Maternal-Fetal Medicine Units Network, Washington DC, (2013-2016)
- Credentials Committee, Lucile Packard Children's Hospital, (2011- present)
- Fellowship Program Director, Maternal-Fetal Medicine, (2011- present)
- Director, Program in Placental Disorders, Division of Maternal-Fetal Medicine, Department of Obstetrics and Gynecology, (2010- present)
- Associate Fellowship Program Director, Division of Maternal-Fetal Medicine, (2006-2011)

HONORS AND AWARDS

- Harvard Medical Student Teaching Award, Harvard Medical School (1999)
- Stanford University Resident’s Outstanding Fellow Award, Stanford University, Department of Obstetrics & Gynecology (2001)
- Resident’s Obstetrics Teaching Award, Stanford University, Department of Obstetrics & Gynecology (2004)

- Roy M. Pitkin Research Award, American College of Obstetricians and Gynecologists (2009)
- Resident's Obstetrics Teaching Award, Stanford University Department of Obstetrics & Gynecology (2012)

PROFESSIONAL EDUCATION

- Fellowship: Stanford University Maternal Fetal Medicine Fellowship (2003) CA
- Medical Education: George Washington University (1996) DC
- B.A.S., Stanford University , Biology and History (1990)
- Residency: Brigham and Women's Hospital Harvard Medical School (2000) MA
- Fellowship, Stanford School of Medicine , Maternal- Fetal Medicine (2003)
- Board Certification: Obstetrics and Gynecology, American Board of Obstetrics and Gynecology (2004)
- Board Certification: Maternal and Fetal Medicine, American Board of Obstetrics and Gynecology (2007)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Preterm labor prevention and management, preeclampsia prevention and treatment, short and long-term impact of surgical techniques at cesarean, depression during pregnancy, fetal heart rate monitoring and long-term neurologic outcome, randomized clinical trials.

CLINICAL TRIALS

- Comparison of Oral Ferrous Sulfate to Intravenous Ferumoxytol in Antepartum Iron Deficiency Anemia, Recruiting

Publications

PUBLICATIONS

- **Magnesium sulfate exposure and neonatal intensive care unit admission at term.** *Journal of perinatology*
  Girsen, A. I., Greenberg, M. B., El-Sayed, Y. Y., LEE, H., Carvalho, B., Lyell, D. J.
  2015; 35 (3): 181-185
- **In reply.** *Obstetrics and gynecology*
  Girsen, A. I., Osmundson, S. S., Garabedian, M. J., Naqvi, M., Lyell, D. J.
  2015; 125 (3): 740-?
- **Risk factors for classical hysterotomy in twin pregnancies.** *Obstetrics and gynecology*
  Osmundson, S. S., Garabedian, M. J., Yeaton-Massey, A., Lyell, D. J.
  2015; 125 (3): 643-648
- **Feasibility of Neonatal Pulse Wave Velocity and Association with Maternal Hemoglobin A(1c)** *NEONATOLOGY*
  Chen, S., Chetty, S., Lowenthal, A., Evans, J. M., Vu, C., Stauffer, K. J., Lyell, D., Tierney, E. S.
  2015; 107 (1): 20-26
- **Feasibility of neonatal pulse wave velocity and association with maternal hemoglobin a1c.** *Neonatology*
  Chen, S., Chetty, S., Lowenthal, A., Evans, J. M., Vu, C., Stauffer, K. J., Lyell, D., Selamet Tierney, E. S.
  2015; 107 (1): 20-26
- **Mini commentary author's reply.** *bjog-an international journal of obstetrics and gynaecology*
  Lyell, D. J.
  2015; 122 (1): 143-144
- **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

- **Anticoagulant prescribing practices and anesthetic interventions among anticoagulated pregnant patients: a retrospective study.** *International journal of obstetric anesthesia*
  Butwick, A., Hass, C., Wong, J., Lyell, D., El-Sayed, Y.
  2014; 23 (3): 238-245

- **Combined elevated midpregnancy tumor necrosis factor alpha and hyperlipidemia in pregnancies resulting in early preterm birth.** *American journal of obstetrics and gynecology*
  Jelliffe-Pawlowski, L. L., Ryckman, K. K., Bedell, B., O'Brodovich, H. M., Gould, J. B., Lyell, D. J., Borowski, K. S., Shaw, G. M., Murray, J. C., Stevenson, D. K.
  2014; 211 (2): 141 e1-9

- **Association between maternal characteristics, abnormal serum aneuploidy analytes, and placental abruption.** *American journal of obstetrics and gynecology*
  Blumenfeld, Y. J., Baer, R. J., Druzin, M. L., El-Sayed, Y. Y., Lyell, D. J., Faucett, A. M., Shaw, G. M., Currier, R. J., Jelliffe-Pawlowski, L. L.
  2014; 211 (2): 144 e1-9

- **Maternal prepregnancy body mass index and risk of spontaneous preterm birth.** *Paediatric and perinatal epidemiology*
  Shaw, G. M., Wise, P. H., Mayo, J., Carmichael, S. L., Ley, C., Lyell, D. J., Shachar, B. Z., Melsop, K., Phibbs, C. S., Stevenson, D. K., Parsonnet, J., Gould, J. B.
  2014; 28 (4): 302-311

- **Perioperative and transfusion outcomes in women undergoing cesarean hysterectomy for abnormal placentation.** *Transfusion*
  Brookfield, K. F., Goodnough, L. T., Lyell, D. J., Butwick, A. J.
  2014; 54 (6): 1530-1536

- **Integrating multiple 'omics' analyses identifies serological protein biomarkers for preeclampsia** *BMC MEDICINE*
  Liu, L. Y., Yang, T., Ji, J., Wen, Q., Morgan, A. A., Jin, B., Chen, G., Lyell, D. J., Stevenson, D. K., Ling, X. B., Butte, A. J.
  2013; 11

- **Risk factors for classical hysterotomy by gestational age.** *Obstetrics and gynecology*
  Osmundson, S. S., Garabedian, M. J., Lyell, D. J.
  2013; 122 (4): 845-850

- **Effect of magnesium sulfate exposure on term neonates** *JOURNAL OF PERINATOLOGY*
  Greenberg, M. B., Penn, A. A., Whitaker, K. R., KOGUT, E. A., El-Sayed, Y. Y., Caughey, A. B., Lyell, D. J.
  2013; 33 (3): 188-193

- **Integrating multiple 'omics' analyses identifies serological protein biomarkers for preeclampsia.** *BMC medicine*
  Liu, L. Y., Yang, T., Ji, J., Wen, Q., Morgan, A. A., Jin, B., Chen, G., Lyell, D. J., Stevenson, D. K., Ling, X. B., Butte, A. J.
  2013; 11: 236-?

- **Antenatal identification of major depressive disorder: a cohort study** *AMERICAN JOURNAL OF OBSTETRICS AND GYNECOLOGY*
  Lyell, D. J., Chambers, A. S., Steidtmann, D., Tsai, E., Caughey, A. B., Wong, A., Manber, R.
  2012; 207 (6)

- **Interpregnancy Interval and Obstetrical Complications** *OBSTETRICAL & GYNECOLOGICAL SURVEY*
  Shachar, B. Z., Lyell, D. J.
  2012; 67 (9): 584-596

- **Rectus muscle and visceral peritoneum closure at cesarean delivery and intraabdominal adhesions** *78th Annual Meeting of the Pacific-Coast-Obstetrical-and-Gynecological-Society*
  Lyell, D. J., Caughey, A. B., Hu, E., Blumenfeld, Y., El-Sayed, Y. Y., Daniels, K.
  MOSBY-ELSEVIER.2012

- **Adhesions and perioperative complications of repeat cesarean delivery** *AMERICAN JOURNAL OF OBSTETRICS AND GYNECOLOGY*
  Lyell, D. J.
  2011; 205 (6): S11-S18

- **Do adhesions at repeat cesarean delay delivery of the newborn?** *31st Annual Scientific Meeting of the Society-of-Maternal-Fetal-Medicine (SMFM)*
  Greenberg, M. B., Daniels, K., Blumenfeld, Y. J., Caughey, A. B., Lyell, D. J.

MOSBY-ELSEVIER.2011

- **Neonatal medical admission in a term and late-preterm cohort exposed to magnesium sulfate** *31st Annual Western Conference on Perinatal Research*
  Greenberg, M. B., Penn, A. A., Thomas, L. J., El-Sayed, Y. Y., Caughey, A. B., Lyell, D. J.
  MOSBY-ELSEVIER.2011
- **The Residency Certificate: The Rite of Passage** *OBSTETRICS AND GYNECOLOGY*
  Lyell, D. J.
  2011; 117 (1): 174-174
- **Oral Misoprostol and Vaginal Isosorbide Mononitrate for Labor Induction A Randomized Controlled Trial** *29th Annual Meeting of the Society-for-Maternal-Fetal-Medicine*
  Collingham, J. P., Fuh, K. C., Caughey, A. B., Pullen, K. M., Lyell, D. J., El-Sayed, Y. Y.
  LIPPINCOTT WILLIAMS & WILKINS.2010: 121–26
- **Single- versus double-layer hysterotomy closure at primary caesarean delivery and bladder adhesions** *BJOG-AN INTERNATIONAL JOURNAL OF OBSTETRICS AND GYNAECOLOGY*
  Blumenfeld, Y. J., Caughey, A. B., El-Sayed, Y. Y., Daniels, K., Lyell, D. J.
  2010; 117 (6): 690-694
- **TITLE: SLEEPLESSNESS DURING PREGNANCY: ESTIMATING THE PREVALENCE OF INSOMNIA**
  Chambers, A. S., Lyell, D. J., Manber, R.
  SPRINGER.2010: 35–35
- **Acupuncture for Depression During Pregnancy A Randomized Controlled Trial** *OBSTETRICS AND GYNECOLOGY*
  Manber, R., Schnyer, R. N., Lyell, D., Chambers, A. S., Caughey, A. B., Druzin, M., Carlyle, E., Celio, C., Gress, J. L., Huang, M. I., Kalista, T., Martin-Okada, R., Allen, et al
  2010; 115 (3): 511-520
- **Daily Compared With 8-Hour Gentamicin for the Treatment of Intrapartum Chorioamnionitis A Randomized Controlled Trial** *28th Annual Meeting of the Society-for-Maternal-Fetal-Medicine*
  Lyell, D. J., Pullen, K., Fuh, K., Zamah, M., Caughey, A. B., Benitz, W., El-Sayed, Y. Y.
  LIPPINCOTT WILLIAMS & WILKINS.2010: 344–49
- **Antenatal recognition of major depressive disorder** *30th Annual Clinical Meeting of the Society-for-Maternal-Fetal-Medicine*
  Lyell, D., Chambers, A., Wong, A., Tsai, E., Caughey, A., Manber, R.
  MOSBY-ELSEVIER.2009: S55–S55
- **Acupuncture for depression during pregnancy** *30th Annual Clinical Meeting of the Society-for-Maternal-Fetal-Medicine*
  Manber, R., Schnyer, R., Chambers, A., Lyell, D., Caughey, A., Carlyle, E., Druzin, M., Gress, J., Huang, M., Kalista, T., Okada, R., Allen, J.
  MOSBY-ELSEVIER.2009: S19–S19
- **External cephalic version: a terrible opportunity to waste** *JOURNAL OF PERINATOLOGY*
  Lyell, D. J., Caughey, A. B.
  2009; 29 (2): 77-78
- **1. Blumenfeld Yair J and Lyell, Deirdre J. Prematurity prevention: the role of acute tocolysis.** *Curr Opin Obstet Gynecol.*
  Blumenfeld, Y., Lyell, D
  2009; 21: 136-141
- **Maintenance Nifedipine Tocolysis Compared With Placebo A Randomized Controlled Trial** *28th Annual Meeting of the Society-for-Maternal-Fetal-Medicine*
  Lyell, D. J., Pullen, K. M., Mannan, J., Chitkara, U., Druzin, M. L., Caughey, A. B., El-Sayed, Y. Y.
  LIPPINCOTT WILLIAMS & WILKINS.2008: 1221–26
- **RANDOMIZED CLINICAL TRIAL OF CERVICAL RIPENING AND LABOR INDUCTION USING ORAL MISOPROSTOL WITH OR WITHOUT INTRAVAGINAL ISOSORBIDE MONONITRATE** *29th Annual Meeting of the Society-for-Maternal-Fetal-Medicine*
  Collingham, J., Fuh, K., Caughey, A., Pullen, K., Lyell, D., Druzin, M., Kogut, E., El-Sayed, Y.
  MOSBY-ELSEVIER.2008: S53–S53

- **Perinatal outcomes among Asian-white interracial couples** *28th Annual Meeting of the Society-for-Maternal-Fetal-Medicine*
  Nystrom, M. J., Caughey, A. B., Lyell, D. J., Druzin, M. L., El-Sayed, Y. Y.
  MOSBY-ELSEVIER.2008
- **Uterine exteriorization compared with in situ repair at cesarean delivery: A randomized controlled trial** *OBSTETRICS AND GYNECOLOGY*
  Blumenfeld, Y., Caughey, A. B., Lyell, D. J.
  2008; 112 (1): 183-183
- **Once daily vs. 8-hour gentamicin dosing for chorioamnionitis** *28th Annual Meeting of the Society-for-Maternal-Fetal-Medicine*
  Pullen, K., Zamah, M., Fuh, K., Caughey, A., Benitz, W., Lyell, D., El-Sayed, Y.
  MOSBY-ELSEVIER.2007: S68–S68
- **Cesarean delivery outcomes after a prolonged second stage of labor** *27th Annual Meeting of the Society-of-Maternal-Fetal-Medicine*
  Sung, J. F., Daniels, K. I., Brodzinsky, L., El-Sayed, Y. Y., Caughey, A. B., Lyell, D. J.
  MOSBY-ELSEVIER.2007
- **Magnesium sulfate compared with nifedipine for acute tocolysis of preterm labor - A randomized controlled trial** *26th Annual Meeting of the Society-for-Maternal-Fetal-Medicine*
  Lyell, D. J., Pullen, K., Campbell, L., Ching, S., Druzin, M. L., Chitkara, U., Burrs, D., Caughey, A. B., El-Sayed, Y. Y.
  LIPPINCOTT WILLIAMS & WILKINS.2007: 61–67
- **Presence of the sickle cell trait and preterm delivery in African-American women** *OBSTETRICS AND GYNECOLOGY*
  Bryant, A. S., Cheng, Y. W., Lyell, D. J., Laros, R. K., Caughey, A. B.
  2007; 109 (4): 870-874
- **Induction of labor and cesarean delivery by gestational age** *26th Annual Meeting of the Society-for-Maternal-Fetal-Medicine*
  Caughey, A. B., Nicholson, J. M., Cheng, Y. W., Lyell, D. J., Washington, A. E.
  MOSBY-ELSEVIER.2006: 700–705
- **Ultrasound screening of fetuses at increased risk for Down syndrome: how many missed diagnoses?** *PRENATAL DIAGNOSIS*
  Caughey, A. B., Lyell, D. J., Washington, A. E., Filly, R. A., Norton, M. E.
  2006; 26 (1): 22-27
- **Percutaneous transluminal coronary angioplasty and stent placement in pregnancy** *OBSTETRICS AND GYNECOLOGY*
  Dwyer, B. K., Taylor, L., Fuller, A., Brummel, C., Lyell, D.
  2005; 106 (5): 1162-1164
- **Peritoneal closure at primary cesarean delivery and adhesions** *24th Annual Meeting of the Society-for-Maternal-Fetal-Medicine*
  Lyell, D. J., Caughey, A. B., Hu, E., Daniels, K.
  LIPPINCOTT WILLIAMS & WILKINS.2005: 275–80
- **Randomized comparison of intravenous nitroglycerin and subcutaneous terbutaline for external cephalic version under tocolysis** *AMERICAN JOURNAL OF OBSTETRICS AND GYNECOLOGY*
  El-Sayed, Y. Y., Pullen, K., Riley, E. T., Lyell, D., Druzin, M. L., Cohen, S. E., Chitkara, U.
  2004; 191 (6): 2051-2055
- **Developmental response to hypoxia** *FASEB JOURNAL*
  Huang, S. T., Vo, K. C., Lyell, D. J., Faessen, G. H., Tulac, S., Tibshirani, R., Giaccia, A. J., Giudice, L. C.
  2004; 18 (12): 1348-1365
- **Postpartum uterine arteriovenous fistula** *OBSTETRICS AND GYNECOLOGY*
  Aziz, N., Lenzi, T. A., Jeffrey, R. B., Lyell, D. J.
  2004; 103 (5): 1076-1078
- **Neonatal chest wall rigidity following the use of remifentanil for cesarean delivery in a patient with autoimmune hepatitis and thrombocytopenia** *INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA*
  Carvalho, B., Mirikitani, E. J., Lyell, D., Evans, D. A., Druzin, A., Riley, E. T.
  2004; 13 (1): 53-56
- **Training and competency assessment in electronic fetal monitoring: A national survey** *OBSTETRICS AND GYNECOLOGY*

Murphy, A. A., Halamek, L. P., Lyell, D. J., Druzin, M. L.
2003; 101 (6): 1243-1248

- **Prenatal screening, epidemiology, diagnosis, and management of preeclampsia** *CLINICS IN LABORATORY MEDICINE*
  Lyell, D. J., Lambert-Messerlian, G. M., Giudice, L. C.
  2003; 23 (2): 413-?

- **Evaluation of a novel electronic fetal monitor simulator** *11th Annual Medicine Meets Virtual Reality Conference*
  Murphy, A. A., Halamek, L. P., Lyell, D. J., Druzin, M. L.
  I O S PRESS.2003: 240–244

- **The impact of the use of the isolated echogenic intracardiac focus as a screen for Down syndrome in women under the age of 35 years** *21st Annual Meeting of the Society-for-Maternal-Fetal-Medicine*
  Caughey, A. B., Lyell, D. J., Filly, R. A., Washington, A. E., Norton, M. E.
  MOSBY-ELSEVIER.2001: 1021–27

- **New therapies for the pregnant patient with diabetes.** *Diabetes technology & therapeutics*
  El-Sayed, Y. Y., Lyell, D. J.
  2001; 3 (4): 635-640

- **Videourodynamic diagnosis of occult genuine stress incontinence in patients with anterior vaginal wall relaxation** *JOURNAL OF THE SOCIETY FOR GYNECOLOGIC INVESTIGATION*
  Versi, E., Lyell, D. J., Griffiths, D. J.
  1998; 5 (6): 327-330