

Christina S. Han, M.D.

## **CURRICULUM VITAE**

**Name:** Christina S. Han, M.D.

**Education:** B.S. Biomedical Sciences, Thomas Haider B.S.-M.D. Program  
University of California at Riverside, 2001  
M.D. UCLA David Geffen School of Medicine, 2004

**Training:** Residency Ob/Gyn, Cedars-Sinai Medical Center, Los Angeles, CA, 2008  
Fellowship MFM, Yale University School of Medicine, New Haven, CT, 2011

## **CAREER / ACADEMIC APPOINTMENTS**

11/2017-present Maternal-Fetal Medicine Fellowship Program Director  
Associate Clinical Professor, Health Sciences, UCLA, Los Angeles, CA

01/2014-present Associate, Center for Fetal Medicine & Women's Ultrasound, Los Angeles, CA  
Associate, Cedars-Sinai Medical Center, Los Angeles, CA  
Associate, Saint John's Health Center, Santa Monica, CA

08/2014-11/2017 Voluntary Faculty, UCLA, Los Angeles, CA  
07/2011-11/2013 Assistant Professor, Yale School of Medicine, New Haven, CT  
09/2010-09/2013 Women's Reproductive Health Research Scholar, Yale SOM, New Haven, CT

## **BOARD CERTIFICATION**

2010-present Board certified, American Board of Obstetrics & Gynecology  
2013-present Board certified, Maternal-Fetal Medicine

## **PROFESSIONAL HONORS AND RECOGNITION**

- A) International / National / Regional Honors  
1996-2000 National Merit Scholar  
2000 UC Riverside Women Who Make a Difference Nominee  
1998 Golden Key National Honor Society
- B) University Honors  
2004 William H. Dignam, M.D. Award for Excellence in Obstetrics & Gynecology  
2003 UCLA Letter of Distinction: Obstetrics & Gynecology  
2003 UCLA Letter of Distinction: Internal Medicine  
1996-2000 University of California Regents Scholar  
1996-1998 Honors Residential Fellowship
- C) Residency Honors  
2008 Gregory Dantzer, M.D. Chief Resident Teaching Award  
2008 Bruce and Sylvia Stern Best Resident Manuscript Award  
2008 Society of Laparoendoscopic Surgeons Outstanding Resident Award  
2008 Best Resident Morbidity and Mortality Conference Award  
2006 Annual CREOG Award  
2006 Berlex Laboratories Best Teaching PGY-II Resident Award

## PROFESSIONAL SERVICE

### A) Professional Service & Organizations

#### **Society of Maternal-Fetal Medicine (SMFM)**

2020	Postgraduate course on “Rare maternal and fetal diseases”, Co-director
2019	Quilligan Scholar Mentor
2018, 2019	Resident Forum, Speaker
2018	Board Nominating Committee, Member
2017-present	SMFM Education Committee Vice Chair (2020-2023) Podcast Subcommittee Lead (2018-present) Online Modules: IUGR, Wellness (2017-present)
2011-present	The Pregnancy Foundation Literature Alert Group, Member
2010-2018	SMFM Internal Communications Committee Chair (2015-2018) Member (2010-2018)
2008-present	Member

#### **International Society of Prenatal Diagnosis**

2019-2020	Annual Meeting Program Committee
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#### **American College of Obstetrics & Gynecology (ACOG)**

2008	ACOG Congressional Leadership Conference
2007-2008	ACOG District IX Committee on Healthcare of Underserved Women

#### **Yale-New Haven Hospital**

2011-2013	Multidisciplinary Glucose Management Committee, Member
2011	Obstetrical and intrapartum insulin protocol

### B) Journal Service

2015-present	Ad hoc Reviewer for: <i>American Journal of Obstetrics &amp; Gynecology</i>
2013-present	Ad hoc Reviewer for: <i>Endocrinology</i>
2011-present	Ad hoc Reviewer for: <i>Obstetrics and Gynecology International</i>
2011-present	Ad hoc Reviewer for: <i>American Journal of Perinatology</i>
2010-present	Ad hoc Reviewer for: <i>American Journal of Reproductive Immunology</i>
2008-present	Ad hoc Reviewer for: <i>Journal of Perinatal Medicine</i>

### C) International Service

2010	Medical-Surgical Mission to Tagbilaran, Bohol, Philippines
2008	Medical-Surgical Mission to Nueva Ecijas, Philippines
2007	Medical-Surgical Mission to Sololá, Guatemala
2004	Medical Mission to Falmouth, Jamaica
2001-2004	Tzu Chi International Medical Association

### D) University Service

2008-2009	Operation Medical Libraries, Organizer
2002-2004	Student-Run Homeless Clinic, Chief
2001-2002	Medical Scholars Program, Tutor

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## GRANT FUNDING

- 12/01/18 – 11/31/19 Iris Cantor-UCLA Women's Health Pilot Project Award  
"Decreasing maternal morbidity by monitoring circulating trophoblasts (cTBs): A Maternal Biomarker for Morbidly Adherent Placentation."  
PI: Yalda Afshar MD PhD / Role: Co-investigator
- 6/10/09 – 5/31/14 5 PO1 HD 054713-03 (NICHD, NIH)  
"Function of Toll-like receptors throughout gestation"  
PD: Gil Mor MD PhD / PI: Vikki Abrahams PhD / Role: Co-investigator (3%)
- 3/1/2012 – 11/30/2013 Albert McKern Scholar for Perinatal Research  
"Elevated Risk of Preeclampsia in Diabetic Pregnancies: Elucidating Molecular Mechanisms, Effects of Therapies, and Novel Biomarkers."  
PI: Christina Han MD / Role: PI
- 6/1/2012 – 11/30/2013 March of Dimes  
"Understanding, Predicting and Preventing Adverse Pregnancy Outcomes in Women with Antiphospholipid Antibodies."  
PI: Vikki Abrahams PhD / Role: Co-investigator

## BIBLIOGRAPHY

### A) Peer-Reviewed Manuscripts

1. Pluym ID, Paek B, Walker M, Hui L, Kwang L, Rao R, Scibetta E, Afshar Y, Holliman K, Wong T, Platt LD, **Han CS**. Novel use of a social-media-based survey to detect regional differences in management of monochorionic-diamniotic twins. *Am J Perinat*. Accepted; pending publication.
2. Johnson A, Snegovskikh D, Parikh L, Belfort DeAguiar R, **Han CS**, Hwang J. Characterizing the effects of diabetes and obesity on insulin and leptin levels amongst pregnant women. *Am J Perinat*. Accepted; pending publication.
3. Negi M, Mulla M, **Han CS**, Abrahams V. Allopurinol inhibits excess glucose-induced trophoblast IL-1b and ROS production. *Reproduction*. 2019 Nov. Epub ahead of print. doi: 10.1530/REP-19-0422. PMID: 31705795.
4. Rose K, Kwan L, Datkhaeva I, Zhang H, **Han CS**, Afshar Y. Forceps-assisted vaginal delivery: the landscape of obstetrics and gynecology resident training. *J Mat Fetal Neo Med*. 2019 Oct 21:1-7. doi: 10.1080/14767058.2019.1677593. [Epub ahead of print]
5. Copel JA, Platt LD, Hobbins JC, Afshar YA, Grechukina O, Mallimpati D, Bromley B, Caughey A, Grobman W, Nicolaides K, Pettker CM, Saade G, Simhan H, Sonek J, Werner EF, **Han CS**, Chescheir N. Gottesfeld-Hohler Memorial Foundation Risk Assessment for Early-Onset Preeclampsia in the United States Think Tank Summary. *Obstet Gynecol*. In press.
6. Choo EK, Girgis C, **Han CS**, Simard JF, Adesoye T, Linos E, Mangurian C. High Prevalence of Peripartum Depression Among Physician Mothers: A Cross-Sectional Study. *J Psychiatry* 2019; 176:763–764. PMID: 31474130.
7. Duzyj CM, Cooper A, Mhatre M, **Han CS**, Paidas MJ, Illuzzi JL, Sfakianaki AK. Placenta accreta: a spectrum of predictable risk, diagnosis, and morbidity. *Am J Perinatology*. 2019 Aug; 36(10):1031-1038. PMID: 30500963.

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8. Leon-Martinez D, Mulla MJ, **Han CS**, Chamley LW, Abrahams VA. Modulation of trophoblast function by concurrent hyperglycemia and antiphospholipid antibodies is in part TLR4-dependent. *AJRI*. 2018 Oct:e13045. PMID: 30194889.
9. Heim KR, Mulla MJ, Potter JA, **Han CS**, Guller S, Abrahams VA. Excess Glucose Induce Trophoblast Inflammation and Limit Cell Migration Through HMGB1 Activation of Toll-Like Receptor 4. *AJRI*. 2018 Sep:e13044. PMID: 30175447.
10. Scibetta E, Valderramos S, Rao R, Silverman NS, **Han CS**, Platt LD. Clinical accuracy of abnormal cell-free fetal DNA (cfDNA) results for the sex chromosomes. *Prenatal Diagnosis*. 2017 Dec; 37(13):1291-1297. PMID: 28837243.
11. Adesoye T, Mangurian C, Choo E, Girgis C, Sabry-Elnaggar H, Linos E, for the **PMG Study Group** (Simard J, LaFaver K, Montalbano A, **Han CS**, Nosrati A, Seif D, Chren M). Perceived Discrimination Experienced by Physician Mothers and Desired Workplace Changes: A cross-sectional online survey. *JAMA Int Med*. 2017 Jul; 177(7):1033-1036. PMID: 28492824.
12. Rao RR, Valderramos SG, **Han CS**, Platt LD, Silverman NS. Zika Risk and Pregnancy in Clinical Practice: Ongoing Experience as the Outbreak Evolves. *Obstet Gynecol*. 2017 Jun; 129(6):1098-1103. PMID: 28486369.
13. Rao RR, Valderramos SG, **Han CS**, Silverman NS, Platt LD. The value of the first trimester ultrasound in the era of cell-free fetal DNA screening. *Prenatal Diagnosis*. 2016 Dec;36(13):1192-1198. PMID: 27813114.
14. Valderramos SG, Rao RR, Scibetta EW, Silverman NS, **Han CS**, and Platt LD. Cell-free DNA Screening in Clinical Practice: Abnormal Autosomal Aneuploidy and Microdeletion Results. *Am J Obstet Gynecol*. 2016 Nov; 215(5):626.e1-e10. PMID: 27371353.
15. Mackeen D, Khalifeh A, Fleisher J, **Han CS**, Leiby B, Berghella V. Pain associated with cesarean delivery skin closure: A Randomized Controlled Trial. *Obstet Gynecol*. 2015 Oct; 126(4): 702-7. PMID: 26348166.
16. Hwang JJ, Johnson A, Cline G, Belfort-DeAguiar R, Snegovskikh D, Khokhar B, **Han CS**, Sherwin RS. Fructose levels are markedly elevated in CSF compared to plasma in pregnant women. *PLoS One*. 2015 Jun 2;10(6):e0128582. PMID: 26035307.
17. Benedict K, **Han CS**, Krakow D, Silverman NS, Platt LD. Detection of Y chromosome material in a 46,XX male with SRY translocation: novel application of cell-free fetal DNA testing. *Prenat Diagn*. 2015 Aug;35(8):823-5. PMID: 25871731.
18. **Han CS**, Herrin MA, Pitruzzello M, Mulla MJ, Werner EF, Pettker CM, Flannery CA, Abrahams VM. Glucose and metformin modulate human first trimester trophoblast function: A model and potential therapy for diabetes-associated uteroplacental insufficiency. *Am J Reprod Immunol*. 2015 Apr; 73(4):362-71. PMID: 25394884.
19. Bakaysa S, Potter JA, Hoang M, **Han CS**, Guller S, Norwitz ER, Abrahams VM. Single- and double-stranded viral RNA generate distinct cytokine and antiviral responses in human fetal membranes. *Mol Hum Reprod*. 2014 July; 20(7): 701-8. PMID: 24723465.
20. Mackeen D, Khalifeh A, Fleisher J, Vogell A, **Han CS**, Sendekci J, Pettker CM, Leiby BE, Baxter JK, Sfakianaki AS, Berghella V. On behalf of the CROSS Consortium. Suture compared

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- with staple skin closure after cesarean delivery: a RCT. *Obstet Gynecol.* 2014 Jun; 123(6):1169-75. PMID: 24807325.
21. Hoang M, Potter JA, Gysler SM, **Han CS**, Guller S., Norwitz ER, Abrahams VM. Human Fetal Membranes Generate Distinct Cytokine Profiles in Response to Bacterial Toll-like Receptor and Nod-like Receptor Agonists. *Biol Reprod.* 2014 Feb 27; 90(2):39. PMID: 24429216.
  22. Werner EF, **Han CS**, Savitz DA, Lipkind HS. Health outcomes for vaginal compared with cesarean delivery for appropriately grown preterm neonates. *Obstet Gynecol.* 2013 Jun;121(6):1195-200. PMID: 23812452.
  23. Nayeri UA, Werner EF, **Han CS**, Pettker CM, Funai EF, Thung SF. Antenatal lamivudine to reduce perinatal hepatitis B transmission: A cost-effectiveness analysis. *Am J Obstet Gynecol.* 2012 Sep;207(3):231.e1-7. PMID: 22939730.
  24. Werner EF, **Han CS**, Burd I, Lipkind HS, Copel JA, Bahtiyar MO, Thung SF. Evaluating the cost-effectiveness of prenatal surgery for myelomeningocele: a decision analysis. *Ult Ob Gyn.* 2012 Aug; 40(2): 158-64. PMID: 22511529.
  25. **Han CS**, Mulla MJ, Brosens JJ, Chamley LW, Paidas MJ, Lockwood CJ, Abrahams VA. Aspirin and Heparin Effect on Basal and Antiphospholipid Antibody Modulation of Trophoblast Function. *Obstet Gynecol.* 2011 Nov; 118(5).1021-8. PMID: 22015869.
  26. Carroll TY, Mulla MJ, **Han CS**, Brosens JJ, Chamley LW, Giles Ian, Pericleous C, Rahman A, Sfakianaki AK, Paidas MJ, Abrahams VA. Modulation Of Trophoblast Angiogenic Factor Secretion By Antiphospholipid Antibodies Is Not Reversed By Heparin. *AJRI.* 2011 Oct; 66(4):286-96. PMID: 21545316.
  27. Bhandari V, Buhimschi CS, **Han CS**, Lee SY, Pettker CM, Campbell KH, Dulay AT, Oliver EA, Werner EF, Buhimschi IA. Cord blood erythropoietin and interleukin-6 for prediction of intraventricular hemorrhage in the preterm neonate. *J Mat Fet & Neonat Med.* 2011 May; 24(5):673-9. PMID: 20937006.
  28. Werner EF, **Han CS**, Pettker CM, Buhimschi CS, Copel JA, Funai EF, Thung SF. Universal cervical length screening to prevent preterm birth: a cost-effectiveness analysis. *Ult Ob Gyn.* 2010 Dec; 38:32-37. PMID: 21157771.
  29. Abdel-Razeq SS, Buhimschi IA, Bahtiyar MO, Rosenberg VA, Dulay AT, **Han CS**, Werner EF, Thung S, Buhimschi CS. Interpretation of amniotic fluid white blood cell count in "bloody tap" amniocentesis in women with symptoms of preterm labor. *Obstet Gynecol.* 2010 Aug; 116 (2 Pt 1):344-54. PMID: 20664395.
  30. Buhimschi CS, Bhandari V, Dulay AT, Thung SF, Abdel-Razeq S, Rosenberg V, **Han CS**, Ali UA, Zambrano E, Zhao G, Funai EF, Buhimschi IA. Amniotic fluid angiopoietin-1, angiopoietin-2, and soluble receptor Tie2 levels and regulation in normal pregnancy and intra-amniotic inflammation-induced preterm birth. *JCEM.* 2010 July; 95(7):3428-36. PMID: PMC2928907.
  31. Sfakianaki AK, **Han CS**. "Ultrasound in the evaluation of twin pregnancy." *Minerva Ginecologia*, 2009; 61-127-39. PMID: 19255560.
  32. Adusumalli J, **Han CS**, Beckham S, Bartholomew ML, Williams J. Chorionic Villus Sampling and Risk for Hypertensive Disorders of Pregnancy. *Am J Obstet Gynecol* 2007 June; 196(6):591. e1-7. PMID: 17547909

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## **B) Case Reports, Technical Notes, Letters**

1. Misal M, Gupta M, Platt LD, Silverman NS, **Han CS**. Use of eculizumab in pregnancy-associated hemolytic uremic syndrome. *Case Reports in Perinatal Medicine*. Nov 2018. 7(1):Epub. doi: 10.1515/crpm-2017-0038
2. Zuckerwise LC, Werner EF, Pettker CM, McMahon-Brown EK, Thung SF, **Han CS**. Pregestational diabetes with extreme insulin resistance: Use of U-500 insulin in pregnancy. *Obstet Gynecol*. 2012 Aug;120(2 Pt 2):439-42. PMID: 22825259.
3. Werner EF, Paik D, **Han C**, Sfakianaki AK. Gastroschisis and bladder herniation: a case report and review of literature. *J Ult Med*, 2010 Feb; 29(2):313-6. PMID: 20103805.
4. Edwards-Silva RN, **Han CS**, Hoang Y, Kao LC. Spontaneous Ovarian Hyperstimulation In a Naturally Conceived Pregnancy with Uncontrolled Hypothyroidism. *Obstet Gynecol*, 2008 Feb; 111:498–501. PMID: 18238999.

## **C) Invited Editorials and Commentaries**

1. Datkhaeva I, **Han CS**. Artificial intelligence in Imaging. *Contemp Obstet Gynecol*. 2019 Nov.
2. Holliman K, **Han CS**. Imaging in Obesity. *Contemp Obstet Gynecol*. 2019 Aug.
3. **Han CS**. Hyperglycemia and Adverse Pregnancy Outcome Follow-Up Study (HAPO FUS): Maternal Glycemia and Childhood Glucose Metabolism. 2019 Jan; PracticeUpdate website: <https://www.practiceupdate.com/content/maternal-glycemia-and-childhood-glucose-metabolism/78427/65/8/1>.
4. Afshar Y, **Han CS**. Trimester Zero: Pre-conception counseling. *Contemp Obstet Gynecol*. 2017 Mar and Apr.
5. **Han CS**. Maternal Diabetes and Infant Autism. PracticeUpdate website: <https://www.practiceupdate.com/content/maternal-diabetes-and-infant-autism/23962/12/8/1>
6. **Han CS**, Platt LD. Non-invasive prenatal testing: need for informed enthusiasm. *Am J Obstet Gynecol*. 2014 Dec; 211(6): 577-580. PMID: 25459560.
7. Pettker CM, Thung SF, Dulay A, **Han C**, Ali U. Discussion: 'predicting neonatal acidemia by computer analysis' by Costa et al. *Am J Obstet Gynecol*, 2009 Nov; 201(5):e1-4. PMID: 19879389.

## **D) Reviews, Chapters, Books**

1. Pluym I, **Han CS**. "Third trimester bleeding." In: Spong C, Lockwood CJ (Eds). *High-Risk Pregnancy Protocols*. (In production).
2. "Ultrasound in Gynecology and Early Pregnancy." In: Platt LD and **Han CS (Guest Eds)**. *Clinics of North America* 2019.
3. Scibetta EW, **Han CS**. "Ultrasound in Early Pregnancy: Viability, Unknown Locations, and Ectopic Pregnancies." *Obstet Gynecol Clin N Am*. 2019 Dec; 46(4):783-795.

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4. **Han CS**. "Assessment of glycemic control," ADA Guide on Diabetes in Pregnancy 2019.
5. Moroz L, **Han CS**, Paidas MJ. "Thromboembolic disease in pregnancy", Chapter 7 in *Obstetric Intensive Care Manual* (5<sup>th</sup> edition). Foley MR, Strong TH, and Garite TJ (Eds). McGraw-Hill, New York, NY. 2018.
6. **Han CS**, Copel JA. "Fetal Adrenals", *Obstetric Imaging*. Copel JA. 2017. Revision.
7. **Han CS**, Platt LD. "Fetal Biophysical Profile", *Obstetric Imaging*. Copel JA. 2017.
8. Sutton DM, **Han CS**, Werner EF. Diabetes mellitus in pregnancy. *NeoReviews*, 18 (1): e33-43. Doi: 10.1542/neo.18-1-e33
9. Afshar Y., **Han CS** (2017) Preconception Care: In the Continuum of Women's Healthcare. In: Shoupe D. (eds) *Handbook of Gynecology*. Springer, Cham
10. Afshar Y, Penfield C, **Han CS**, Silverman NS. Pregnant women and Zika exposure: an update from CDC at an ad-hoc SMFM meeting. *Contemporary Ob/Gyn*. E-pub ahead of print. 2016.
11. **Han CS**, Platt LD. "Alloimmunization," PAC/LAC Guidelines of Care.
12. **Han CS**, Paidas MJ. "Thromboembolic disease in pregnancy", Chapter 7 in *Obstetric Intensive Care Manual* (4<sup>th</sup> edition). Foley MR, Strong TH, and Garite TJ (Eds). McGraw-Hill, New York, NY. 2014.
13. **Han CS**, Werner EF. "Considerations and Challenges for PCOS in pregnancy." *PCOS*. Pal, L. 2013.
14. **Han CS**, Pettker CM. "Obstetrical Emergencies." *Management of Labor and Delivery*. Macones, G. 2015.
15. **Han CS**. "Cystic Hygroma" and "Goiters", *Creasy and Resnick High Risk Pregnancies*. Creasy RK, Resnik R, Iams JD, Lockwood CJ, Moore TR. (Revised in 2018.)
16. **Han CS**, Copel JA. "Fetal Adrenals", *Obstetric Imaging*. Copel JA. 2012 June.
17. **Han CS**, Krikun G, Schatz F, Lockwood CJ. "The role of decidual cell generated thrombin in pathogenesis of abruption and preeclampsia," In: *Thrombin: Structure, Biological Functions, and Roles in Disease*. Nova Publishing. 2012 August.
18. **Han CS**, Funai EF. "Systemic lupus erythematosus", *Management of High-Risk Pregnancies* (6<sup>th</sup> edition). Queenan JT, Spong CY, and Lockwood CJ (Eds). Wiley-Blackwell, New York, NY. 2012 March.
19. **Han CS**, Schatz F, Lockwood CJ. "Abruption-associated prematurity", *Prematurity: Science and Art*. Clinics in Perinatology. Iams J and Fleischman A (Eds). Saunders, New York, NY, 2011 Oct. PMID: 21890016.
20. **Han CS**, Paidas MJ. "Thrombophilia and the placenta", Chapter 33 in *The Placenta: from Development to Disease* (1<sup>st</sup> edition). Kay H, Nelson DM, and Wang YP (Eds). Wiley-Blackwell, New York, NY, 2011 April.

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21. **Han CS**, Norwitz ER. "Expectant management of severe preeclampsia remote from term: Not for everyone", *Contemporary Ob/Gyn*. 2011 Feb.
22. **Han CS**, Lockwood CJ. Commentary on recent thrombophilia research. *Special Delivery Newsletter*, 2010: 2(1):2.
23. **Han CS**, Paidas MJ. "Thromboembolic disease in pregnancy", Chapter 7 in *Obstetric Intensive Care Manual* (3<sup>rd</sup> edition). Foley MR, Strong TH, and Garite TJ (Eds). McGraw-Hill, New York, NY, 2010 Sept.
24. Paidas MJ, **Han CS**, Hossain N. "Inherited and Acquired Thrombophilia in Obstetrics", In *Hemostasis and Thrombosis in Ob/Gyn* (1<sup>st</sup> edition). Paidas MJ (Ed). Wiley-Blackwell, New York, NY, 2010 Dec.
25. **Han CS**, Paidas MJ, Lockwood CJ. "Clotting Disorders", Chapter 41 in *High Risk Pregnancy: Management Options* (4<sup>th</sup> edition). James DK, Steers PJ, Weiner CP, et al. (Eds). Saunders, New York, NY, 2010 Dec.

#### **E) Presentations**

1. Afshar Y, Zhu Y, Platt LD, Silverman NS, **Han CS**, Tseng HR. Detecting circulating trophoblasts: novel method of risk stratification for abnormal placentation. Oral presentation at SMFM 2019.
2. Wong T, Datkhaeva I, Dellapiana G, Afshar Y, Platt LD, Silverman NS, **Han CS**. Non-reportable cell-free DNA: patient preferences, utility of repeat draw, and outcomes. Poster presentation at SMFM 2019.
3. Datkhaeva I, Lee CC, Holliman K, Afshar Y, Nguyen T, **Han CS**, Krakow D, Rao R. Postpartum emergency department usage among women with psychiatric illness. Poster presentation at SMFM 2019.
4. Skaperdas E, Reading J, Koehler AA, Rao R, **Han CS**, Platt LD. Cell-free fetal DNA for aneuploidy screening: How much do patients understand? Poster presentation at SMFM 2019.
5. Datkhaeva I, Paek B, Walker M, Rao R, Scibetta E, Afshar Y, Wong T, Platt LD, **Han CS**. Social media as a resource for monochorionic-diamniotic (MCDA) twin pregnancies. Oral presentation at ISUOG 2018.
6. Datkhaeva I, Paek B, Walker M, Rao R, Scibetta E, Afshar Y, Wong T, Platt LD, **Han CS**. Regional differences in the management of monochorionic diamniotic (MCDA) twins complicated by Twin-twin transfusion syndrome (TTTS). Poster presentation at ISUOG 2018.
7. Afshar Y, Wong T, Fahey J, Dhatkaeva I, Scibetta E, Silverman NS, Platt LD, **Han CS**. Incidence of adverse pregnancy outcomes based on mode of conception in monochorionic diamniotic twins. Poster presentation at SMFM 2018.
8. Wong T, Afshar Y, Rao R, Fahey J, Scibetta E, Datkhaeva, **Han CS**, Silverman NS, Platt LD. Intertwin discrepancy in cerebroplacental ratio and adverse pregnancy outcomes in monochorionic-diamniotic twins. Poster presentation at SMFM 2018.



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9. Kaing A, Scibetta E, Gaw SL, Rao R, Afshar Y, **Han CS**, Platt LD. Gestational carriers: The Demographics behind a frequently overlooked population. Poster presentation at ASRM 2018.
10. Johnson AW, Hwang JJ, Belfort de Aguiar R, Snegovskikh D, **Han CS**, Sherwin R. Maternal obesity associated with relative central nervous system insulin deficiency. Poster presentation at SGI 2014.
11. Herrin MA, Pitruzzelli MC, Flannery CA, Pettker CM, Werner EF, Abrahams VM, **Han CS**. Metformin Partially Reverses Hyperglycemia-Induced Angiogenic Factor Imbalance in Human First Trimester Trophoblast. Poster presentation at SGI 2013.
12. Pitruzzelli MC, Hastie J, Herrin MA, Flannery CA, Werner EF, Abrahams VM, **Han CS**. Metformin Reverses Hyperglycemia-Induced Upregulation of IL-6 Secretion by Human First Trimester Trophoblast. Poster presentation at SGI 2013.
13. Albert CR, Mulla MJ, **Han CS**, Brosens JJ, Chamley LW, Abrahams VM. Hydroxychloroquine Prevents Antiphospholipid Antibody-Induced Inhibition of Trophoblast Migration. Poster presentation at SGI 2013.
14. Hoang M, Potter JA, **Han CS**, Guller S, Norwitz ER, Abraham VM. Fetal Membranes Generate Distinct Inflammatory Cytokine Profiles in Response to Different Bacterial Toll-like and Nod-like Receptor Agonists. Poster presentation at SGI 2013.
15. Hoang M, Potter JA, **Han CS**, Guller S, Norwitz ER, Abraham VM. Role of Caspase-1 in Fetal Membrane IL-1 $\beta$  Production in Response to Bacterial Toll-Like Receptor and Nod Protein Agonists. Poster presentation at SGI 2013.
16. Bakaysa SL, Potter JA, **Han CS**, Guller S, Norwitz ER, Abrahams VM. Fetal Membranes Generate Different Inflammatory Profiles Towards Viral ssRNA and Viral dsRNA Through Distinct Mechanisms. Poster presentation at SGI 2013.
17. **Han CS**, Mulla MJ, Schlesinger W, Thung SF, Abrahams VM. Mechanisms of hyperglycemia-induced alterations in trophoblast migration: a model for the pathogenesis of preeclampsia in diabetes mellitus. Oral presentation at SGI 2012.
18. Campbell K, Ali U, Zuckerwise L, Pettker CM, Werner EF, Thung SF, **Han CS**. Association of subclinical hypothyroidism with adverse outcomes in pregnancies complicated by diabetes mellitus. Poster presentation at SGI 2012.
19. **Han CS**, Thung SF, Nickless N, Lockwood CJ, Abrahams VM. Excess glucose up-regulates first trimester trophoblast secretion of pro-inflammatory cytokines and chemokines and reduces anti-inflammatory IL-10 secretion. Oral presentation at SMFM 2012.
20. **Han CS**, Thung SF, Nickless N, Lockwood CJ, Abrahams VM. Excess glucose levels limit first trimester trophoblast migration and induce an anti-angiogenic profile. Poster presentation at SMFM 2012.
21. Werner EF, **Han CS**, Savitz DA, Sfakianaki AK, Funai EF, Lipkind HS. Possible benefits of vaginal delivery for preterm, appropriate for gestational age infants. Poster presentation at SMFM 2012.

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22. Ali UA, Werner EF, **Han CS**, Pettker CM, Funai EF, Thung SF. Administration of lamivudine in the third trimester to reduce the risk of perinatal transmission of hepatitis B: a cost-effectiveness analysis. Poster presentation at SMFM 2012.
23. Huynh T, Thung SF, Magriples U, Duzyj CM, **Han CS**, Ali UA, Pettker CM. Once-Daily Versus Twice-Daily Antiretroviral Dosing in HIV-infected Pregnant Women. Poster presentation at SMFM 2012.
24. **Han CS**, Mulla MJ, Brosens JJ, Chamley LW, Paidas MJ, Abrahams VA. Combination treatment with aspirin and heparin exacerbates the antiphospholipid antibody-induced IL-8 response in first trimester trophoblast. Poster presentation at SGI 2011.
25. Werner EF, Buhimschi IA, **Han CS**, Dulay AT, Ali UA, Thung SF, Bahtiyar MO, Zhao G, Funai EF, Bhandari V, Buhimschi CS. Impact of acute and chronic inflammatory events on the matrix metalloproteinase-9 (MMP-9) and tissue inhibitor of MMP (TIMP-1) homeostasis in preterm infants with adverse neonatal outcomes. Poster presentation at SMFM 2011.
26. Laky CA, Buhimschi IA, Ali UA, **Han CS**, Werner EF, Campbell KH, Bahtiyar MO, Thung SF, Copel JA, Bhandari V, Funai EF, Buhimschi CS. Evidence for involvement of the receptor for advanced glycation end products (RAGE) axis in pathogenesis of fetal intra-uterine growth restriction (IUGR). Oral presentation at SMFM 2011.
27. Shook L, Buhimschi CS, Dulay AT, Guomao Zhao, Ali UA, **Han CS**, Campbell K, Erika Werner, Buhimschi IA. Calcifying nanoparticles as novel etiologic agents of idiopathic preterm birth and preterm premature rupture of the membranes (PPROM). Oral presentation at SMFM 2011.
28. Dulay AT, Buhimschi CS, Lee SY, Abdel-Razeq SS, Zhao G, **Han CS**, Shook L, Buhimschi IA. A functional role for TLR4 adaptor protein, soluble myeloid differentiation factor (sMD)-2, in modulating the fetal inflammatory response in infection induced preterm birth. Poster presentation at SMFM 2011. Oral presentation at SMFM 2011.
29. Dulay AT, Buhimschi IA, Zhao G, Ali UA, Abdel-Razeq SS, Lee SY, **Han CS**, Shook L, Buhimschi CS. Intra-amniotic inflammation in response to infection with single species versus mixed bacterial flora in women with preterm birth. Poster presentation at SMFM 2011.
30. Dulay AT, Buhimschi IA, Guomao Zhao, Ali UA, Abdel-Razeq SS, Bahtiyar MO, Thung SF, **Han CS**, Campbell KH, Paidas MJ, Buhimschi CS. Systematic evaluation of prototype acute phase reactants (interleukin-6, C-reactive protein and procalcitonin) as non-invasive biomarkers of intra-amniotic infection. Poster presentation at SMFM 2011.
31. **Han CS**, Werner E, Pettker C, Norwitz E, Funai E, Thung S. Universal antenatal screening for spinal muscular atrophy: a cost-utility analysis. Poster presentation at SMFM 2010.
32. Bhandari V, Buhimschi C, **Han C**, Lee S, Pettker C, Campbell K, Dulay A, Oliver EA, Werner E, Buhimschi I. Cord blood erythropoietin levels are associated with an increased risk of intraventricular hemorrhage in the preterm neonate. Poster presentation at SMFM 2010.
33. Buhimschi C, Dulay A, Zhao G, Lee S, **Han C**, Werner E, Bahtiyar M, Funai E, Bhandari V, Buhimschi I. Significance of early haptoglobin switching-on levels and phenotypes in preterm newborns with early onset neonatal sepsis. Poster presentation at SMFM 2010.
34. Campbell K, Buhimschi I, Azpurua H, Werner E, **Han C**, Dulay A, Bahtiyar M, Copel JA, Buhimschi C. Umbilical artery Doppler velocimetry in fetuses delivered by women with

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intraamniotic inflammation, histologic chorioamnionitis and funisitis. Poster presentation at SGI 2010.

35. Buhimschi I, Funai E, Zhao G, Dulay A, Lee S, **Han C**, Werner E, Thung S, Buhimschi C. Assessment of global protein misfolding load by urine “Congo Red Dot” test for diagnosis and prediction of outcome in women with preeclampsia. Abstract presented via oral presentation at SMFM 2010. Oral presentation at SMFM 2010.
36. Lee S, Buhimschi I, Zhao G, Dulay A, Bahtiyar M, **Han C**, Buhimschi C. Interleukin-6 trans-signaling molecules soluble GP130 and soluble IL-6 receptor in the amniotic fluid of women with intra-amniotic inflammation and preterm premature rupture of membranes. Poster presentation at SMFM 2010.
37. Dulay A, Buhimschi C, Zhao G, Oliver E, Lee S, Lee SJ, **Han C**, Pettker C, Buhimschi I. Fetal host response to gram-negative bacteria involves the novel Toll-like receptor-4 chaperone protein, soluble myeloid differentiation factor. Poster presentation at SMFM 2010.
38. Abdel-Razeq SS, Buhimschi IA, Bahtiyar MO, Rosenberg VA, Dulay AT, **Han CS**, Werner EF, Thung SF, Buhimschi CS. Interpretation of the amniotic fluid white blood cell count as a rapid indicator of intra-amniotic inflammation/infection in “Bloody Tap” amniocenteses of women with symptoms of preterm labor. Poster presentation at SMFM 2010.
39. **Han CS**, Gornbein J, Hobel C. Maternal age does not affect uterine artery Doppler velocimetry in normal pregnancies. Poster presentation at SMFM 2009.
40. **Han CS**, Adusumalli J, Finke D, Beckham S, Mirocha J, Williams J. Chorionic Villus Sampling and Hypertensive Disorders of Pregnancy: an analysis of risk factors. Poster presentation at SMFM 2008.
41. **Han CS**, Ogunyemi D, Hobel C, Arora C, Rad S. *Abnormal Fetal Growth Pattern at Three Time Points in Diabetic Pregnancies*. Poster presentation at ACOG District IX Meeting, Victoria, Canada, August 2007.

## LECTURES & COURSES

### *Upcoming engagements:*

- |         |  |
|---------|--|
| 02/2020 | Co-director of post-graduate course on “Rare fetal genitourinary syndromes”, SMFM Annual Meeting, Dallas, TX |
| 03/2020 | Non-syndromic causes of short long bones, AIUM Annual Meeting, NYC, NY                                       |
| 08/2020 | “Artificial Intelligence in Ob/Gyn practice,” ACOG District XII Annual District Meeting, Miami, FL           |

### *Conference/Symposium Moderator:*

- |            |   |
|------------|---|
| 02/04/2020 | Co-director of post-graduate course on “Rare maternal and fetal syndromes”, SMFM Annual Meeting, Dallas, TX                         |
| 10/26/2019 | Moderator, “9 <sup>th</sup> Annual Fetal Echocardiography Course,” UCLA, Los Angeles, CA  |
| 03/14/2019 | “Advances in Prenatal Molecular Screening: The Innovation That Transformed Prenatal Care,” Symposium Moderator, SRI, Paris, France. |
| 10/20/2018 | Moderator, “8 <sup>th</sup> Annual Fetal Echocardiography Course,” UCLA, Los Angeles, CA  |

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*Past Speaking Engagements:*

- 12/09/2019 "Ultrasound and medical complications," GOHO Fellow Ultrasound Bootcamp, Ft. Lauderdale, FL
- 12/10/2019 "Ultrasound and preeclampsia," GOHO Fellow Ultrasound Bootcamp, Ft. Lauderdale, FL
- 10/26/2019 "Diabetes and the fetal heart," Fetal Echo course, UCLA, Los Angeles, CA
- 09/23/2019 "Aneuploidy screening in pregnancy": REI Fellow lecture, UCLA.
- 02/27/2019 "Ultrasound and the epidemic of diabetes": Grand Rounds, Cedars-Sinai Medical Center, Los Angeles, CA.
- 02/11/2019 "Ultrasound in the pregnant patient with diabetes": Post-graduate course, SMFM Annual Meeting, Las Vegas, NV.
- 12/05/2018 "Placental abnormalities": SMFM Fellow Lecture Series, On-line
- 12/02/2018 "Placental abnormalities": GoHo Ultrasound conference, Ft. Lauderdale, FL.
- 12/02/2018 "Ultrasound in obese gravida" : GoHo Ultrasound conference, Ft. Lauderdale, FL.
- 12/02/2018 "Just images" : GoHo Ultrasound conference, Ft. Lauderdale, FL.
- 12/01/2018 "Ultrasound & maternal comorbidities": GoHo Ultrasound, Ft. Lauderdale, FL.
- 11/04/2018 "First trimester abnormalities": 第十屆台兒胎兒醫學工作坊, Taipei, Taiwan
- 10/20/2018 "Maternal comorbidities and the fetal heart": Fetal Echocardiography Symposium, UCLA, Los Angeles, CA
- 09/28/2018 "Care of the obese gravida": Grand Rounds, UCLA-Olive View, Sylmar, CA
- 03/16/2018 "Obesity in Pregnancy": Grand Rounds, UCLA, Los Angeles, CA
- 03/24/2018 "Abnormalities of the abdominal wall and limbs in first trimester":  
Postgraduate course at AIUM, New York City, NY (*scheduled*)
- 11/04/2017 "Ultrasound in diabetic pregnancies": Invited speaker at SSEP, Anaheim, CA
- 11/03/2017 "The Buzz on Zika": 第九屆台兒胎兒醫學工作坊, Taipei, Taiwan  
(Invited speaker via teleconference)
- 10/20/2017 "Placental and cord abnormalities": MFM Lecture, UCLA, Los Angeles, CA
- 02/17/2017 "Fetal urologic abnormalities": MFM Lecture, UCLA, Los Angeles, CA
- 05/27/2016 "Fetal Head/Neck Abnormalities": MFM Lecture, UCLA, Los Angeles, CA
- 03/17/2016 "Twin chorionicity" and "Zika in Pregnancy": AIUM Annual Meeting, NYC, NY.
- 12/04/2015 "Fetal ultrasound in Diabetes": GoHo Ultrasound conference, Ft. Lauderdale, FL.
- 12/04/2015 "Universal CL: A debate": : GoHo Ultrasound conference, Ft. Lauderdale, FL.
- 12/05/2015 "The placenta: Where is it?" : GoHo Ultrasound conference, Ft. Lauderdale, FL.
- 12/06/2015 "GU Abnormalities" : GoHo Ultrasound conference, Ft. Lauderdale, FL.
- 11/18/2015 "Placenta anatomy & physiology" MFM Lecture, Cedars-Sinai, Los Angeles, CA.
- 03/05/2015 "Hypertension in Pregnancy": MFM Lecture, UCLA, Los Angeles, CA.
- 01/20/2015 "Placenta: Basics": Ob/Gyn Lecture, Cedars-Sinai Med Ctr, Los Angeles, CA.
- 12/10/2014 "Placenta: Lifeline": MFM Lecture, Cedars-Sinai Medical Center, Los Angeles, CA.
- 07/23/2014 "IUGR": MFM Lecture, Cedars-Sinai Medical Center, Los Angeles, CA.
- 03/28/2014 "Preventing the first cesarean delivery": Grand Rounds, St. John's, LA, CA.
- 10/24/2013 "Physiology of pregnancy": Student lecture, Yale.
- 08/01/2013 "Postpartum hemorrhage": Resident lecture, Yale.
- 05/09/2013 "Physiology of Labor": Medical Student lecture, Yale.
- 05/02/2013 "AidsInfo Update": Ob/Gyn Resident lecture, Yale.
- 02/28/2013 "Update on HIV in Pregnancy": MFM Fellow lecture, Yale.
- 01/28/2013 "An epidemic of diabetes": School of Nursing lecture, Yale.
- 12/13/2012 "Pre-gestational DM: The model MFM disease": Ob/Gyn Resident lecture, Yale.
- 09/27/2012 "Technology and Smartphones in Medicine": Ob/Gyn Resident lecture, Yale.
- 09/18/2012 "Update on GDM": Grand Rounds, Department of Ob/Gyn, St. Vincent's Hospital
- 09/05/2012 "Diabetes workshop": Endocrinology Fellow lecture, Internal Medicine, Yale.
- 08/09/2012 "GDM: The good, the sweet, and the ugly": Ob/Gyn Resident lecture, Yale.
- 06/22/2012 "Obstetrics Workshop": Physician's Assistant program, Yale.

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- 06/22/2012 "Medical complications in pregnancy": Physician's Assistant program, Yale.
- 06/05/2012 "Glycemic control and perinatal outcome," "Congenital malformations in diabetic women," and "Diabetic nephropathy and pregnancy": Invited speaker at XXVIII Central American Congress of Ob/Gyn, San Jose, Costa Rica
- 04/13/2012 "Hyperglycemia-induced placentopathy": Reproductive Sciences Seminar, Yale.
- 04/12/2012 "Diabetes in Pregnancy": MFM Fellow lecture, Yale.
- 03/09/2012 "Endocrinologic Disorders in Pregnancy": Endocrinology Grand Rounds, Yale.
- 02/17/2012 "Preeclampsia and Hypertensive emergencies": Paramedics Program, Yale.
- 12/09/2011 "Controversies in Diabetes in Pregnancy": Endocrinology Grand Rounds, Yale.
- 11/17/2011 "Fetal complications": Medical Student lecture, Yale.
- 11/02/2011 "Diabetes in Pregnancy: Short and Sweet": NICU Fellow lecture, Yale.
- 11/02/2011 "HIV in Pregnancy": NICU Fellow lecture, Yale.
- 10/19/2011 "Bloody business": Resident lecture, Yale.
- 06/14/2011 "Knot-tying": Medical Student seminar, Yale.
- 05/26/2011 "Maternal complications in pregnancy": Medical Student lecture, Yale.
- 05/19/2011 "First, do no harm? The Antiphospholipid Antibody Syndrome Story": Ob/Gyn Grand Rounds, Yale.
- 05/06/2011 "Effect of Aspirin and Heparin on the Basal and Antiphospholipid Antibody-Mediated Modulation of First Trimester Trophoblasts": Reproductive Sciences Seminar, Yale.
- 04/14/2011 "Fetal complications": Medical Student lecture, Yale.
- 04/07/2011 "Induction, Augmentation & Ripening": Resident lecture, Yale.
- 03/10/2011 "Effect of Aspirin and Heparin on First Trimester Trophoblasts in Antiphospholipid Antibody Syndrome": Research in Progress Seminar, Yale.
- 02/01/2010 "Fetal echocardiography case presentation": Society of Maternal-Fetal Medicine Post-graduate course, Chicago, IL.
- 11/09/2008 "Ultrasound Coding": MFM Fellow lecture, Yale.
- 06/11/2008 "Medical Volunteerism: A global and educational perspective": Ob/Gyn Grand Rounds, Cedars-Sinai Medical Center, LA, CA.
- 03/07/2008 "The Placenta: Lifeline of a Fetus": Nursing Conference, Cedars-Sinai.
- 10/18/2007 "Syphilis in Pregnancy": Ob/Gyn Grand Rounds, California Hospital, LA, CA.