

Curriculum Vitae

Kamran Hessami, M.D.

Hessamikamran@gmail.com

Kamran.hessami@bcm.edu

Education

- 2013-2020: School of Medicine, Shiraz University of Medical Sciences, Shiraz, Iran, graduated with **HONOR** (GPA 3.9/4).
- 2009-2013: National Organization for Development of Exceptional Talents High School (NODET)

Research Experience

- 2021-current: Department of Obstetrics and Gynecology, Baylor College of Medicine, Houston, TX, USA
- 2019-2021: Maternal-Fetal Medicine Research Center, Shiraz University of Medical Sciences, Shiraz, Iran

Academic Achievements

- Graduated as top 1% percentile of the class from Shiraz Medical School in August 2020 (GPA 3.9 of a total of 4.0).
- Top 2.5% percentile among medical students of country (Iran) in comprehensive clinical knowledge examination in March 2019 (pre-internship exam).
- Awarded as outstanding student-researcher of country in 2020-2021

Published Papers

1. Hematian MN, **Hessami K**, Saleh M, Shirdel Abdolmaleki A, Torabi S, Hantoushzadeh S. Cardiac Calcified Amorphous Tumor in the Neonatal Period. Case Reports in Pediatrics. 2022 Jan 10;2022.
2. **Hessami K**, Cozzolino M, Shamshirsaz AA. The effect of phosphodiesterase-5 inhibitors on uteroplacental and fetal cerebral perfusion in pregnancies with fetal growth restriction: a systematic review and meta-analysis. European Journal of Obstetrics & Gynecology and Reproductive Biology. 2021 Nov 1.
va
3. Shamshirsaz AA, **Hessami K**, Morain S, Afshar Y, Nassr A, Arian SE, Aagaard K. Intention to receive COVID-19 vaccine during pregnancy: A systematic review and meta-analysis. American Journal of Perinatology. 2021 Oct 20.
4. Donepudi R, **Hessami K**, Nassr AA, Espinoza J, Cortes MS, Luming SU, Shirazi M, Yinon Y, Belfort MA, Shamshirsaz AA. Selective Reduction in Complicated Monochorionic Pregnancies: A Systematic Review and Meta-analysis of Different Techniques. American Journal of Obstetrics and Gynecology. 2021 Oct 19.
5. Hematian MN, **Hessami K**, Torabi S, Saleh M, Nouri B, Saleh M. A prospective cohort study on association of first-trimester serum biomarkers and risk of isolated fetal congenital heart defects. Biomarkers. 2021 Oct 14(just-accepted):1-5.
6. Sun RC, **Hessami K**, Krispin E, Pammi M, Mostafaei S, Joyeux L, Deprest J, Keswani S, Lee TC, King A, Belfort MA. Prenatal ultrasonographic markers for prediction of complex gastroschisis and adverse perinatal outcomes: a systematic review and meta-analysis. Archives of Disease in Childhood-Fetal and Neonatal Edition. 2021 Sep 29.
7. Nassr AA, Berghella V, **Hessami K**, Bibbo C, Bellussi F, Robinson JN, Marsoosi V, Tabrizi R, Safari-Faramani R, Tolcher MC, Shamshirsaz AA. Intrapartum ultrasound measurement of angle of progression at the onset of the second stage of labor for prediction of spontaneous vaginal delivery in term singleton pregnancies: a systematic

review and meta-analysis. *American Journal of Obstetrics and Gynecology*. 2021 Aug 9.

8. **Hessami K**, Nassr AA, Sananès N, Castillo J, Castillo HA, Sanz Cortes M, Espinoza J, Donepudi RV, Sun RC, Krispin E, Belfort MA. Prenatal risk factors of neurodevelopmental impairment after fetoscopic laser photocoagulation for twin–twin transfusion syndrome: a systematic review and meta-analysis. *Ultrasound in Obstetrics & Gynecology*. 2021 Jun 7.
9. Nowrouzi-Sohrabi P, Tabrizi R, **Hessami K**, Shabani-Borujeni M, Hosseini-Bensenjan M, Rezaei S, Jalali M, Keshavarz P, Ahmadizar F. The effects of beraprost sodium on renal function and cardiometabolic profile in patients with diabetes mellitus: a systematic review and meta-analysis of clinical trials. *International Urology and Nephrology*. 2021 May 21:1-0.
10. **Hessami K**, Tabrizi R, Homayoon N, Hashemi A, Heydari ST, Pour Hosseini SA. Gestational diabetes mellitus and inflammatory biomarkers of neutrophil-lymphocyte ratio and platelet-lymphocyte ratio: a systematic review and meta-analysis. *Biomarkers*. 2021 May 6(just-accepted):1-21.
11. **Hessami K**, Kyvernitakis I, Cozzolino M, Moisis-Tesch C. McDonald versus Shirodkar cervical cerclage for prevention of preterm birth: a systematic review and meta-analysis of pregnancy outcomes. *The Journal of Maternal-Fetal & Neonatal Medicine*. 2021 Apr 29:1-8.
12. Moradi Alamdarloo S, Razavi B, Motamedifar M, Hashemi A, Samsami A, Homayoon N, Ghasempour L, Davoodi S, Homayoon H, Mohebi S, Hadadi M, **Hessami K**. The Effect of Endocervical and Catheter Bacterial Colonization During In Vitro Fertilization and Embryo Transfer (IVF-ET) on IVF Success Rate among Asymptomatic Women: A Longitudinal Prospective Study. *Journal of Obstetrics and Gynaecology*. 2021 (In press)
13. Kasraeian, M., Hashemi, A., **Hessami, K.** et al. A 5-year experience on perinatal outcome of placenta accreta spectrum disorder managed by cesarean hysterectomy in southern Iranian women. *BMC Women's Health* 21, 243 (2021).
14. Nassr AA, **Hessami K**, Sherif S, Espinoza J, Donepudi R, Sanz Cortés M, Belfort MA, Shamsheersaz AA. Perinatal outcome of twin-to-twin transfusion syndrome complicated with incidental septostomy after laser surgery: a systematic review and meta-analysis. *Prenat Diagn*. 2021 Mar 29. Online ahead of print.

15. Paktinat M, **Hessami K**, Inaloo S, Nemati H, Katibeh P, Nejabat M, Darabi MH, Bereshneh AH. Case Report of RANBP2 Mutation and Familial Acute Necrotizing Encephalopathy. *International Journal of Pediatrics*. 2021 Mar 13;2021.
16. **Hessami K**, Kasraeian M, Sepúlveda-Martínez Á, Parra-Cordero MC, Vafaei H, Asadi N, Vielba MB. The Novel Ultrasonographic Marker of Uterocervical Angle for Prediction of Spontaneous Preterm Birth in Singleton and Twin Pregnancies: A Systematic Review and Meta-Analysis. *Fetal Diagnosis and Therapy*. 2021 Feb 8:1-7.
17. Vakili S, Torabinaid P, Tabrizi R, Shojazadeh A, Asadi N, **Hessami K**. The Association of Inflammatory Biomarker of Neutrophil-to-Lymphocyte Ratio with Spontaneous Preterm Delivery: A Systematic Review and Meta-analysis. *Mediators of inflammation*. 2021 Feb 1;2021.
18. Nassr AA, **Hessami K**, Shazly SA, Meshinchi N, Corroenne R, Espinoza J, Donepudi R, Sanz Cortes M, Belfort MA, Shamshirsaz AA. Perinatal outcomes of iatrogenic chorioamniotic separation following fetoscopic surgeries: a systematic review and meta-analysis. *Ultrasound Obstet Gynecol*. 2021 Jan 11. Online ahead of print
19. Zarei A, Homayoon N, **Hessami K**, Hashemi A, Davoodi S, Razavi B, Ghasempour L, Alamdarloo SM. Effect of piroxicam administration on outcome of frozen–thawed embryo transfer: A randomized, double-blinded, placebo-controlled trial. *Journal of Obstetrics and Gynaecology Research*. 2021 Jan;47(1):296-301.
20. Faraji A, Aghdaki M, **Hessami K**, Hosseinkhani A, Roozmeh S, Asadi N, Vafaei H, Kasraeian M, Bagheri R, Bazrafshan K, Foroughinia L. Episiotomy wound healing by *Commiphora myrrha* (Nees) Engl. and *Boswellia carteri* Birdw. in primiparous women: a randomized controlled trial. *Journal of Ethnopharmacology*. 2021 Jan 10;264:113396.
21. Tabrizi R, Nowrouzi-Sohrabi P, **Hessami K**, Rezaei S, Jalali M, Savardashtaki A, Shahabi S, Kolahi AA, Sahebkar A, Safiri S. Effects of Ginkgo biloba intake on cardiometabolic parameters in patients with type 2 diabetes mellitus: A systematic review and meta-analysis of clinical trials. *Phytotherapy Research*. 2021 Jan;35(1):246-55.
22. **Hessami K**, Rahnavard T, Hosseinkhani A, Azima S, Sayadi M, Faraji A, Emamghoreishi M, Vafaei H, Hessami A, Foroughinia L, Roozmeh S. Treatment of women's sexual dysfunction using *Apium graveolens* L. Fruit (celery seed): A double-blind, randomized, placebo-controlled clinical trial. *Journal of Ethnopharmacology*. 2021 Jan 10;264:113400.
23. Mohammadi R, Tabrizi R, **Hessami K**, Ashari H, Nowrouzi-Sohrabi P, Hosseini-Bensenjan M, Asadi N. Correlation of low serum vitamin-D with uterine leiomyoma: a

systematic review and meta-analysis. *Reproductive Biology and Endocrinology*. 2020 Dec;18(1):1-8.

24. Vafaei H, Ajdari S, **Hessami K**, Hosseinkhani A, Foroughinia L, Asadi N, Faraji A, Abolhasanzadeh S, Bazrafshan K, Roozmeh S. Efficacy and safety of myrrh in patients with incomplete abortion: a randomized, double-blind, placebo-controlled clinical study. *BMC complementary medicine and therapies*. 2020 Dec;20:1-8.
25. **Hessami K**, Romanelli C, Chiurazzi M, Cozzolino M. COVID-19 pandemic and maternal mental health: a systematic review and meta-analysis. *The Journal of Maternal-Fetal & Neonatal Medicine*. 2020 Oct 30:1-8.
26. Abdi N, Rozrokh A, Alavi A, Zare S, Vafaei H, Asadi N, Kasraeian M, **Hessami K**. The effect of aspirin on preeclampsia, intrauterine growth restriction and preterm delivery among healthy pregnancies with a history of preeclampsia. *Journal of the Chinese Medical Association*. 2020 Sep;83(9):852.
27. **Hessami K**, Homayoon N, Hashemi A, Vafaei H, Kasraeian M, Asadi N. COVID-19 and maternal, fetal and neonatal mortality: a systematic review. *The Journal of Maternal-Fetal & Neonatal Medicine*. 2020 Aug 16:1-6.
28. Kasraeian M, **Hessami K**, Vafaei H, Asadi N, Foroughinia L, Roozmeh S, Bazrfashan K. Patients' self-reported factors influencing cervical cancer screening uptake among HIV-positive women in low-and middle-income countries: An integrative review. *Gynecologic oncology reports*. 2020 Aug 1;33:100596.
29. Nowrouzi-Sohrabi P, Tabrizi R, Rezaei S, Jafari F, **Hessami K**, Abedi M, Jalali M, Keshavarzi P, Shahabi S, Kolahi AA, Carson-Chahhoud K. The effect of voglibose on metabolic profiles in patients with type 2 diabetes mellitus: A systematic review and meta-analysis of clinical trials. *Pharmacological Research*. 2020 Jun 3:104988.
30. Hosseinkhani A, Ziaeiian B, **Hessami K**, Zarshenas MM, Kashkooe A, Pasalar M. An Evidence-Based Review of Antitussive Herbs Containing Essential Oils in Traditional Persian Medicine. *Current drug discovery technologies*. 2020 Apr 20.
31. **Hessami K**, Kasraeian M, Moghaddamizadeh Shoushtari S, Hessami A. Maternal and neonatal outcomes of monochorionic and dichorionic twin pregnancies following assisted reproductive technology in Southern Iranian Women. *Shiraz E-Medical Journal*. 2020 Mar 31;21(3).
32. Nowrouzi-Sohrabi P, Tabrizi R, Jalali M, Jamali N, Rezaei S, **Hessami K**, Keshavarz P, Shahabi S, Kolahi AA, Carson-Chahhoud K, Sahebkar A. Effects of Diacerein Intake on Cardiometabolic Profiles in Type 2 Diabetics: A Systematic Review and Meta-Analysis of Clinical Trials. *Current Medicinal Chemistry*. 2020.

33. Vafaei H, Roozmeh S, **Hessami K**, Kasraeian M, Asadi N, Faraji A, Bazrafshan K, Saadati N, Aski SK, Zarean E, Golshahi M. Obstetrics healthcare providers' mental health and quality of life during covid-19 pandemic: multicenter study from eight cities in Iran. *Psychology Research and Behavior Management*. 2020;13:563.
34. Foroughinia S, **Hessami K**, Asadi N, Foroughinia L, Hadianfard M, Hajihosseini A, Pirasteh N, Vossoughi M, Vafaei H, Faraji A, Kasraeian M. Effect of Acupuncture on Pregnancy-Related Insomnia and Melatonin: A Single-Blinded, Randomized, Placebo-Controlled Trial. *Nature and science of sleep*. 2020;12:271.
35. **Hessami K**, Kasraeian M, Asadi N, Vafaei H, Foroughinia L. Association of Maternal and Umbilical Cord Blood Lipid Parameters with Uterine and Fetal-Placental Blood Flow in Hypertensive and Normotensive Pregnancies. *International journal of women's health*. 2020;12:115.
36. Vafaei H, Asadi N, Shakibafard AM, Kasraeian M, Rahimirad N, Alamdarloo SM, Roozmeh S, **Hessami K**. Premature Restriction of Foramen Ovale in an Anemic Fetus From a Rhesus-negative Mother: A Case Report. *International Journal of Women's Health and Reproduction Sciences*. (2019) 9. 156-157.

International Conference Presentations

1. Kamran **Hessami**, Ahmed A. Nassr, Jimmy Espinoza, Roopali V. Dopepudi, Magdalena Sanz cortes, Raphael C. Sun, Eyal Krispin, Nazlisadat Meshinchiasl, Michael A. Belfort, Alireza A. Shamshirsaz. Solomon versus selective fetoscopic laser photocoagulation for twin-twin transfusion syndrome: A systematic review and meta-analysis. Poster presentation at SMFM's 42nd Annual Pregnancy Meeting in Orlando, Florida. January 31- February 5, 2022.
2. Ahmed A. Nassr, Kamran **Hessami**, Alireza A. Shamshirsaz. Intrapartum ultrasound measured angle-of-progression for prediction of assisted delivery outcome: a systematic review and meta-analysis. Poster presentation at SMFM's 42nd Annual Pregnancy Meeting in Orlando, Florida. January 31- February 5, 2022.
3. Ahmed A Nassr, Kamran **Hessami**, Jimmy Espinoza, Roopali V Donepudi, Magdalena Sanz Cortes, Michael A Belfort, Alireza A Shamshirsaz. Quintero-staging and gestational-age as predictors of single fetal demise in TTTS after laser-photocoagulation: a meta-analysis. Poster presentation at SMFM's 42nd Annual Pregnancy Meeting in Orlando, Florida. January 31- February 5, 2022.
4. Kamran **Hessami**, Kjersti M. Aagaard, Eumenia C. Castro, Sara E. Arian, Enrico R. Barrozo, Maxim D. Seferovic, Alireza A. Shamshirsaz. Placental histopathologic findings from pregnancies diagnosed with COVID-19: A systematic review and meta-

- analysis. Poster presentation at SMFM's 42nd Annual Pregnancy Meeting in Orlando, Florida. January 31- February 5, 2022.
5. **Hessami K.** Normal vaginal delivery after five previous caesarean sections: case report. RCOG Virtual World Congress. 9-12 June 2021
 6. **Hessami K.** Gestational diabetes mellitus and inflammatory biomarkers of neutrophil-lymphocyte ratio and platelet-lymphocyte ratio. RCOG Virtual World Congress. 9-12 June 2021
 7. Nassr AA, **Hessami K**, Shazly SA, Meshinchi N, Corroenne R, Espinoza J, Donepudi R, Sanz Cortes M, Belfort MA, Shamshirsaz AA. Perinatal outcomes of iatrogenic chorioamniotic separation following fetoscopic surgeries: a systematic review and meta-analysis. SMFM 2021, **Las Vegas**, JANUARY 28, 2021
 8. Nassr AA, **Hessami K**, Sherif S, Espinoza J, Donepudi R, Sanz Cortés M, Belfort MA, Shamshirsaz AA. Perinatal outcome of twin-to-twin transfusion syndrome complicated with incidental septostomy after laser surgery: a systematic review and meta-analysis. SMFM 2021, **Las Vegas**, JANUARY 28, 2021.
 9. **Hessami K**, Kasraeian M. Early- versus late-onset preeclampsia in dichorionic diamniotic twin pregnancies: Which one is associated with an increased risk of adverse outcome? 1st international congress of perinatology and 7th national congress of perinatology and neonatology. **Shiraz, Iran**. April 16-19, 2019.
 10. **Hessami K.** Fibrosis and fibroblast foci in fibrotic non-specific interstitial pneumonia. 2nd International Conference on Cytopathology & Histopathology. **Las Vegas**, Nevada . August 10-12, 2016.

Research Skills

Good Clinical Practice (GCP)- randomized clinical trial (RCT) certified by IR-FDA

Statistical analysis with SPSS, STATA, RevMan and R-package

Academic writing

Systematic literature search (pubmed, scopus, embase, web of science)

Meta-analysis and systematic reviews

Endnote

Microsoft word, excel, PowerPoint, etc.

Peer Reviewer for the Following Journals:

- PLOS ONE
- BMC Pregnancy and Childbirth
- Maternal-fetal and neonatal journal
- BMC Psychiatry
- Frontiers in physiology
- World Journal of Surgical Oncology
- International Journal of Women's Health

Credit for reviews can be found at Publons account:

<https://publons.com/researcher/4006846/kamran-hessami>