

Banafsheh Mashak

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Research Scientist

Regenerative Medicine Specialty

- Research in fields of anesthesia, critical care, and pain, cardiovascular and metabolic diseases. The main focus on anesthesiology and pain medicine and novel Anesthesia devices.
- Participate in data gathering, entry, analysis, scientific writing, and revising the manuscripts.
- Experience in data analysis (with SPSS and STATA), scientific writing, and revising the manuscripts. Also, experience in patent registry.

Education

- Doctor of medicine (M.D), Ahvaz University of Medical Sciences.
- Board certified Anesthesiologist, Ahvaz University of Medical Sciences.
- **Honors:** *First Rank in Anesthesiology Board Exam of Ahvaz University of Medical Sciences in 2000.*
The Best Researcher of Alborz University of Medical Sciences in 2019.

Experience

2000-2006: Board certified Anesthesiologist, Fateme Zahra Hospital and Bente Hoda Hospital, Bushehr University of Medical Science, Bushehr, Iran.

2000-2002: Assistant Professor of Anaesthesiology, Anesthesia Department, Bushehr University of Medical Science, Bushehr, Iran.

2006-2011: Board certified Anesthesiologist, Akbar Abadi Hospital, Iran University of Medical Sciences, Tehran, Iran.

2011-Present: Board certified Anesthesiologist, Kamali Hospital and Madani Hospital, Alborz University of Medical Sciences, Karaj, Iran.

2013-Present: Assistant Professor of Anaesthesiology, Anesthesia Department, Alborz University of Medical Sciences, Karaj, Iran.

- **Rewards:** Appreciation letter on the occasion of an innovative idea from the Alborz University of Medical Sciences in 2022.

Chosen as the director of the Anesthesia Department of the Alborz University of Medical Sciences. (2014-2017)

Achieved as the head of the Kamali Hospital of the Alborz University of Medical Sciences. (2011-2015)

Chosen as the director of the Nurse Anesthesiology Department of the Alborz University of Medical Sciences. (2020-Present)

Elected as EDO Administrator of the Kamali Hospital of the Alborz University of Medical Sciences. (2013-Present)

Patent Highlights

1. Banafsheh Mashak, OROPHARYNGEAL AIRWAY WITH CUFFED ESOPHAGEAL TUBE, Publication number WO/2022/175989, International application number PCT/IR2022/050011, International filing date 27.02.2022, World Intellectual Property Organization, Publication date 25.08.2022.

2. Banafsheh Mashak, ENDOTRACHEAL TUBE WITH SLIDING CUFF, PCT/IB2022058255, To be published on April 2023 according to WIPO timeline

3. Banafsheh Mashak, ENDOTRACHEAL TUBE WITH INTERIOR MULTILAYERED SCAVANGING SHEATH , PCT/IB2022/061744, To be published on April 2023 according to WIPO timeline

Link to published patents : <https://patents.google.com/?q=banafsheh+mashak&oq=banafsheh+mashak>

Research Highlights:

1. Pouryaghobi, S. M., Mashak, B., Kabir, K., Hajimaghsoudi, L., & Ahmadinejad, M. (2022). Comparison of an ephedrine infusion with lidocaine% 5 for prevention of hypotension during spinal anesthesia in cesarean section. *Annals of Medicine and Surgery*, 73, 103136.

2. Mashak, B., Bagheri, R. B., Noorani, G., Soleimanifakhr, S., & Ataei, M. (2022). Comparison of Hemodynamic and Biochemical Factors and Pregnancy Complications in Women with/without Preeclampsia. *Maedica*, 17(2), 363.

3. Farahani, M., Sharifinejad, N., Hashemnejad, M., Mashak, B., Mahboubipour, H., Farahani, M., ... & Nirouei, M. The Effect of Magnesium Sulfate on Maternal Serum Electrolytes and Parathyroid Hormone in Preeclampsia. *International Journal of Gynecology & Obstetrics*.

4. Mashak, B., Zandifar, A., Azizi, S., & Ghaemi, M. (2022). Psychosomatic Strange Reactions in Pregnant Women Following Spinal Anesthesia for Cesarean Section. *Fertility, Gynecology and Andrology*, 2(1).

5. Mashak, B., Hashemnejad, M., Fakehi, M., Heidary, Z., Mirmajidi, R., & Ghaemi, M. (2021). Atypical presentation of cardiomyopathy in a case of maternal mortality that was demonstrated as hypovolemic shock. *Clinical Case Reports*, 9(10), e05010.

6. Nokandeh, O. M., Nouri, M., Mirzaei, M., Mashak, B., Mirmajidi, R., Moghadam, S. B., ... & Modoodi, M. (2021). Prevalence of diabetes in women with preeclampsia referred to Imam Hossein and Fatemieh Hospitals in Shahroud. *Archivos Venezolanos de Farmacología y Terapéutica*, 40(2), 125-135.

7. Mashak, B., Pouryaghobi, S. M., Rezaee, M., Rad, S. S., Ataei, M., & Borzabadi, A. (2020). Evaluation of the Effects of Magnesium Sulfate on Prevention of Post-dural-Puncture Headache in Elective Cesarean in Kamali

- Hospital. *Electronic Journal of General Medicine*, 17(3).. <https://www.scopus.com/inward/record.uri?eid=2-s2....>
- 8.Hosseinzadeh, Z., Kazemian, M., Mashak, B., Torkmandi, H., & Badfar, G. (2018). Vitamin D status in pregnant women and their newborns in Karaj: a cross-sectional study in Iran. *International Journal of Pediatrics*, 6(2), 7117-7127. https://ijp.mums.ac.ir/article_10128.html
- 9.Mashak, B., Bagheri, R. B., Noorani, G., Soleimanifakhr, S., & Ataei, M. (2022). Comparison of Hemodynamic and Biochemical Factors and Pregnancy Complications in Women with/without Preeclampsia. *Maedica*, 17(2), 363.
10. Moradi, F., Pouryaghobi, S. M., Rezaee, M., Bayat, F., Nejad, M. H., Montaseri, A., & Mashak, B. (2021). Comparison of the effect of intravenous epinephrine and ephedrine in the management of hypotension and bradycardia during cesarean section under spinal anesthesia in Kamali Hospital, Karaj. *Archivos Venezolanos de Farmacología y Terapéutica*, 40(2), 148-158.. <https://zenodo.org/record/4710978>
11. Ataei, M., Hedayat, M., Rad, S. S., Rezaei, J., Namini, N. J., & Mashak, B. (2020). Genetic evaluation of thrombophilia panel in recurrent miscarriage at Karami Hospital of Karaj. *International Journal of Psychosocial Rehabilitation*, 24(3), 1398-1406.
12. Mashak, B., Bayat, F., Saeieh, S. E., Rahimzadeh, M., Abarghooee, S. N., & Ataei, M. (2019). Effect of ambulation time on the neurological complication after spinal anesthesia with bupivacaine. *International Journal of Pharmaceutical Research*, 11(4), 845-852.
13. Najafi, L., Abedini, A., Kadivar, M., Khajavi, A., Bordbar, A., Noohi, A. H., ... & Mashak, B. (2019). Gestational diabetes mellitus: the correlation between umbilical coiling index, and intrapartum as well as neonatal outcomes. *Journal of Diabetes & Metabolic Disorders*, 18(1), 51-57.
14. Mashak, B., Hashemnejad, M., Kabir, K., Refaei, M., Saeieh, S. E., Torkashvand, S., ... & Yazdkhasti, M. (2019). The effect of ginger on preventing post-spinal puncture headache in patients undergoing cesarean section. *International Journal of Women's Health and Reproduction Sciences*, 7(2), 204-210. <http://www.ijwhr.net/text.php?id=419>
15. Shafaeiyan, M., Ghods, F., Rahbar, F., Daneshi, Z., Sadati, L., Mashak, B., ... & Torkmandi, H. (2019). The Effect of Warm Intravenous Fluid on Postoperative Pain: A Double-Blind Clinical Trial. *Preventive Care in Nursing & Midwifery Journal*, 8(4), 16-22.
16. Ataei, M., Farahani, M., Jalilvand, F., Radi, V., Esmaelzadeh, S., Mashak, B., & Jalaldehy, M. J. (2019). A case report on a pregnancy with modified tetralogy of fallot. *International Journal of Pharmaceutical Research*, 11(1), 1581-1585.
17. Mashak, B., Jalaldehy, M. J., Ataei, M., Kabir, K., & Ahmadian, H. (2019). Comparison of serum levels of thyroid-stimulating hormone in preeclampsia and non-preeclampsia pregnant women referring to Karaj Kamali Hospital in 2018. *Revista Latinoamericana de Hipertensión*, 14(4), 442-444.
18. Sadati, L., Mashak, B., Tayebi Arasteh, M., Nouri Khaneghah, Z., Faryab Asl, M., & Salehi, T. (2018). Studying the Effect of Wearing Compression Socks on Hypotension and the Amount of Administrated Ephedrine after Spinal Anesthesia in the Candidates for Cesarean Section. *Journal of Clinical and Basic Research*, 2(3), 10-18.
19. Mashak, B., Hoseinzadeh, M., Ehsanpour, A., Ghanbaran, A. R., & Vakili, M. (2017). Evaluation of treatment response and side effects of spinal-Z in patients with metastatic gastroesophageal adenocarcinoma: a double-blind randomized controlled trial. *Jundishapur Journal of Chronic Disease Care*, 6(3).

20. Pouryaghoobi, S. M., Ahmadinejad, M., Mashak, B., Ebrahimi, M., Bolvardi, E., & Hashemian, A. M. (2015). Comparison of the level of sensory blockage in spinal anesthesia with bupivacaine% 0.5 and lidocaine% 5 in surgical patients. *Biomedical and Pharmacology Journal*, 8(2), 869-874.
21. Mashak, Z., Sodagari, H., Mashak, B., & Niknafs, S. (2014). Chemical and microbial properties of two Iranian traditional fermented cereal-dairy based foods: Kashk-e Zard and Tarkhineh. *International Journal of Biosciences*, 4(12), 124-133.
22. Mashak, B., Farhand, B., Moghadam, S., Pazhoom, Z., Hajalikhani, T., Taghipoor, N., ... & Farid, M. (2015). Relationship between job stress among nurses with their general health status in kamali hospital in 1392.
23. The effect of psychiatric disorders on the complications of anesthesia in the recovery of patients who are candidate The Impact of Ginger Suppository on Post-cesarean Pain Relief: A Clinical Trials for surgery, **SUBMITTED**
24. Intranasal administration of oxytocin as prevention for post-dural puncture headache in cesarean section candidates: a randomized clinical trial, **SUBMITTED**
25. The Impact of Ginger Suppository on Post-cesarean Pain Relief: A Clinical Trials, **SUBMITTED**
26. The Effect of Ginger on Treatment Post-spinal Puncture Shivering in Patients Undergoing Cesarean Section, **SUBMITTED**

Book Highlights:

1. Mashak, B., Asefi, Z., Mashak, K. (2019). Gam be game osoole moraghebat haye vizhe. Tehran: AnaTeb Publisher. ISBN: 9786009921294.
2. Mashak, B., Khaleghi, Ali., ... & Amiri, S. (2020). Corona virus. Tehran: Ebne Sina Publisher. ISBN: 9786226889582.

Affiliations

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