

**Mohammad Ali Sahmeddini**

**Professor of Anesthesiology and Critical Care**

**Fellowship of Intra-abdominal organ transplantation  
Anesthesia**



## Address

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medical science, Iran, Shiraz

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## Personal Data

**Nationality:** Iranian

**Date of birth:** Jun 16, 1969

**Marital status:** Married, One child

## Education

**High School Diploma, 1987**

Shiraz university high School, Shiraz, Iran.

**M. D, 1988-1995**

Shiraz University of Medical Sciences, Shiraz, Iran

## Post-Doctoral Training

**Fellowship of Intra-abdominal organ transplantation Anesthesia: 2009-2010**

Shiraz University of Medical Sciences, Shiraz, Iran

**Anesthesia Residency, 1995 – 1998**

Shiraz University of Medical Sciences, Shiraz, Iran

**Acupuncture, 2005-2006**

The training center of China Academy of traditional Chinese Medicine

**Faculty Appointment**

Professor, 2019- Continue

Associate Professor, 2011-2019

Assistant Professor, 2003 – 2010

**Academic Appointment**

1. Head of anesthesiology and intensive care department, Shiraz faculty of medicine, Shiraz University of Medical Sciences, Shiraz, Iran, 2014 up to 2019.
2. Deputy for Research Affairs Shiraz faculty of medicine, Shiraz University of Medical Sciences, Shiraz, Iran, 2013 up to present.
3. Deputy of Research, Shiraz University of Medical Sciences, Shiraz, Iran, 2010 up to present.
4. Head of Committee for Approval of Thesis for Medical Students, Fasa Medical School, 2001-2007.
5. Responsible for Teaching Airway management for Medical Students (externs) in Fasa Medical School, 2000-2007.
6. Member of Research Workshop Teaching Group for both medical students and Faculty staff in Fasa medical faculty, 2001-2007.

7. In Charge of Fasa Medical Faculty Academic Staff Promotion.2002 – 2007.
8. Deputy of Research, Fasa Medical School, Fasa, Iran, 2001-2007.

### Papers in Journals

1. L Dehghanpisheh, **MA Sahmeddini**, R Kaboodkhani, K Samadi, S Khademi, Z Rafati and et al. Efficacy of Isoflurane-Remifentanil versus Propofol-Remifentanil on Controlled Hypotension and Surgeon Satisfaction in Articles In Press. April 2023.
2. MB Khosravi, V Naderi-boldaji, F Khalili, **MA Sahmeddini**, MH Eghbal, P Vatankhah and et al. Anesthesia Aspects of Multivisceral Transplantation: A Case Series Study. Int J Org Transplant Med 2022; Vol. 13(2). 71-77.
3. S Ghazanfar Tehran, MB Khosravi, **MA Sahmeddini**, MH Eghbal, N Asmariyan, F Khalili and et al. Comparing the effect of administering gelatin-low dose albumin versus albumin on renal function in liver transplantation: A randomized clinical trial. Clinical Transplantation. 2022; e14791.
4. SMR Hadavi, MH Eghbal, R Kaboodkhani, N Alizadeh, **MA Sahmeddini**. Comparison of pregabalin with magnesium sulfate in the prevention of remifentanil-induced hyperalgesia in patients undergoing rhinoplasty: A randomized clinical trial. Laryngoscope Investigative Otolaryngology. 2022; 1–7.
5. H Nikoupour, MB Khosravi, P Vatankhah, M Shafiekhani, AR Shamsaeefar, P Arasteh, MH Anbardar, MH Eghbal, **MA Sahmeddini** and et al. Intestinal Transplantation in a Country without Home Parenteral Nutrition: The Largest Report from the Middle East Intestinal

Transplantation in a Country without Home Parenteral Nutrition: The Largest Report from the Middle East. Turk J Gastroenterol 2022.

6. **MA Sahmeddini**, S Ghazanfar Tehran, MB Khosravi, MH Eghbal, N Asmarian, F Khalili and et al. Risk factors of the post-reperfusion syndrome during orthotopic liver transplantation: a clinical observational study. BMC Anesthesiology (2022) 22:89.
7. S Emami, A Panah, Sh Hakimi, **MA Sahmeddini**. Effect of Caffeine on the Acceleration of Emergence from General Anesthesia with Inhalation Anesthetics in Children Undergoing Inguinal Herniorrhaphy: A Randomized Clinical Trial. Iran J Med Sci. 2022 Mar; 47(2): 107–113.
8. F Khalili, MB Khosravi, **MA Sahmeddini**, MH Eghbal, K Kazemi, S Nikeghbalian and et al. The Effect of Perioperative N-acetylcysteine on the Short and Long Term Outcomes in Pediatrics Undergoing Living-Donor Liver Transplantation. Int J Organ Transplant Med. 2021; 12(1): 12–20.
9. M Faramarzi, S Roosta, MH Eghbal, B Nouri Rahmatabadi, A Faramarzi, S Mohammadi-Samani, M Shishegar, **MA Sahmeddini**. Comparison of celecoxib and acetaminophen for pain relief in pediatric day case tonsillectomy: A randomized double-blind study. Laryngoscope Investig Otolaryngol. 2021; 6(6):1307–1315.
10. F Khalili, MB Khosravi, **MA Sahmeddini**, MH Eghbal, K Kazemi, S Nikeghbalian and et al. Comparison of celecoxib and acetaminophen for pain relief in pediatric day case tonsillectomy: A randomized double-blind study. Int J Organ Transplant Med. 2021; 12(1): 12–20.
11. S Jowkar, MB Khosravi, **MA Sahmeddini**, MH Eghbal, K Samadi. Preconditioning Effect of Remifentanyl versus Fentanyl in Prevalence of

- Early Graft Dysfunction in Patients after Liver Transplant: A Randomized Clinical Trial. *Exp Clin Transplant*. 2020 Jul 6.
12. **MA Sahmeddini**, A Taghizadehimani, MB Khosravi, MH Eghbal. Magnesium Therapy Improves Rotational Thromboelastometry Findings Prior to Liver Transplantation: A Randomized Clinical Trial. *Indian J Hematol Blood Transfus*. 2020 Jul;36(3):505-511.
13. **MA Sahmeddini**, A Panah, A Ghanbari. Effects of Low-dose Propofol or Ketamine on Coughing at Emergence from Anesthesia in Children Undergoing Tonsillectomy. *Cureus*. 2020 Apr; 12(4): e7842.
14. A Bahador, S Nikeghbalain, M Foroughi, Z Beizavi, **MA Sahmeddini**, MH Eghbal and et al. Successful Surgical Separation of Thoraco-Omphalopagus Symmetrical Conjoined Twins in Iran: Two Case Reports. *Iran J Med Sci*. 2020 Mar. 45(2): 143–47.
15. A Farbood, **MA Sahmeddini**, Sh Bayat, N Karami The effect of preoperative depression and anxiety on heart rate variability in women with breast cancer. *Breast Cancer*. 2020 Sep; 27(5):912-918.
16. MA Sahmeddini, MB Khosravi, A Farbood. Comparison of Perioperative Systemic Lidocaine or Systemic Ketamine in Acute Pain Management of Patients with Opioid Use Disorder after Orthopedic Surgery. *J Addict Med*. May/June 2019. 13(3); 220-26.
17. **MA Sahmeddini**, MB Khosravi, M Seyedi, Z Hematfar, S Abbasi, A Farbood. Comparison of Magnesium Sulfate and Tramadol as an Adjuvant to Intravenous Regional Anesthesia for Upper Extremity Surgeries. *Anesth Pain Med*. 2017 Dec; 7(6): e57102.
18. MH Eghbal, K Samadi, MB Khosravi, **MA Sahmeddini**, S Ghaffaripoor, M Ghorbani and et al. The Impact of Preoperative Variables on Intraoperative Blood Loss and Transfusion Requirements

during Orthotopic Liver Transplant. *Exp Clin Transplant*. 2019 Aug; 17(4):507-512.

19. A Vakily, H Parsaei, MM Movahhedi, **MA Sahmeddini**. A System for Continuous Estimating and Monitoring Cardiac Output via Arterial Waveform Analysis. *J Biomed Phys Eng*. 2017 Jun; 7(2): 181–190.
20. **MA Sahmeddini**, S Azemati, E Masoudi Motlagh. Local Infiltration of Tramadol versus Bupivacaine for Post Cesarean Section Pain Control: A Double-Blind Randomized Study. *Iran J Med Sci*. 2017 May; 42(3): 235–241.
21. N Sattarahmady, M Sedigh-Ardekani, **MA Sahmeddini**, H Heli. Polyamines Improve Anti-Blood Lactate Accumulation in an Acidosis Rat Model. *J Rep Pharm Sci*. 2016. 5(1). 25-32.
22. AA Asadi-Pooya, MA Razavizadegan, Ali Sahraian, **MA Sahmeddini**. Adjunctive use of electroconvulsive therapy in patients with Lennox-Gastaut syndrome and drug-resistant epilepsy: A pilot study. *Med J Islam Repub Iran*. 2016; 30: 413.
23. L Dehghanpisheh, Gr Sabetian, Z Faghirzade, **MA Sahmeddini**. Knowledge and attitude of Iranian parturient women towards painless labor: A qualitative survey. *Professional Med J*. 2015. 22(7); 966-72.
24. Z Fattahi, SMR Hadavi, **MA Sahmeddini**. Effect of ondansetron on post-Dural puncture headache (PDPH) in parturients undergoing cesarean section: a double-blind randomized placebo-controlled study. *J Anesth*. 2015 Oct; 29(5):702-7.
25. A Chohedri, R Raeesi Estabragh, MH Eghbal, **MA Sahmeddini**, HR Eftekharian, R Shahabifar. Comparing the Duration of Spinal Anesthesia Induced with Bupivacaine and a Bupivacaine-Lidocaine Combination in

Trans-Urethral Resection of the Prostate (TURP). *Anesth Pain Med.* 2015 Aug; 5(4): e25675.

26. M Sedigh-Ardekani, **MA Sahmeddini**, N Sattarahmady, H Mirkhanife. Lactic acidosis treatment by Nano mole level of spermidine in an animal model. *Regul. Toxicol. Pharmacol.* November 2014. 70(2); 514-18.
27. S Ghaffaripour, MB Khosravi, A Rahimi, **MA Sahmeddini**, AH Chohedri, H Mahmoudi. The effects of Aminophylline on clinical recovery and bispectral index in patients anesthetized with total intravenous anesthesia. *Pak J Med Sci.* 2014 Nov-Dec; 30(6): 1351–1355.
28. M Bastani, A Hejazi, M Zarenejad, Sh Shahriary, **MA Sahmeddini**. Malpractice cases of anesthesiology leading to death or impairment referring to Shiraz forensic medicine commissions during 2006-2011. *J Med Sci.* 2014. 21(122); 61-7.
29. **MA Sahmeddini**, S Zahiri, MB Khosravi, S Ghaffaripour, MH Eghbal, S Shokrizadeh. Effect of mannitol on post reperfusion cardiac output and central venous oxygen saturation during orthotopic liver transplant: a double-blind randomized clinical trial. *Prog Transplant.* 2014 Jun; 24(2):121-5.
30. **MA Sahmeddini**, F Janatmakan, MB Khosravi, S Ghaffaripour, MH Eghbal, S Shokrizadeh. The effect of intraoperative restricted normal saline during orthotopic liver transplantation on amount of administered sodium bicarbonate. *Iran J Med Sci.* 2014 May; 39(3): 247–253.
31. MB Khosravi, M Firoozifar, S Ghaffaripour, **MA Sahmeddini**, MH Eghbal. Response to letter to the editor: early outcomes of liver transplants in patients receiving organs from hypernatremic donors. *Exp Clin Transplant.* 2014 Apr; 12(2):170.

32. **MA Sahmeddini**, F Janatmakan, MB Khosravi, S Ghaffaripour, MH Eghbal, S Nickeghbalian and et al. Restricted crystalloid fluid therapy during orthotopic liver transplant surgery and its effect on respiratory and renal insufficiency in the early post-operative period: A randomized clinical trial. *Int J Organ Transplant Med.* 2014; 5(3): 113–19.
33. MB Khosravi, S Azemati, **MA Sahmeddini**. Gabapentin versus naproxen in the management of failed back surgery syndrome; a randomized controlled trial. *Acta Anaesth Belg*, 2014, 65, 31-37.
34. M Firoozifar, MB Khosravi, S Ghafari, **MA Sahmeddini**, H Eghbal, H Salahi and et al. Shiraz Guideline for the Management of Patients with Brain Death. *Int J Organ Transplant Med.* 2014; 5(1): 34–37.
35. **MA Sahmeddini**, M Zamani Lari, MN Rahimian, L Danaei, N Beigi, H Habibi. The Effect of Listening to the Quran on Serum Cortisol Levels and Anxiety in Primiparous Women during the First Stage of Labor. *Iran J Obst Gyn Infert.* 2014. 17(99); 1-7.
36. R Ghanbarpour, HK Sari, **MA Sahmeddini**, M Saghafinia. Ketamine for management of re-bleeding due to acute post tonsillectomy pain in children. *Pediatr Anesth Crit Care J.* 2015; 3(1):41-8.
37. Sh Shahbazi, S Khademi, M Shafa, R Joybar, M Hadibarhaghtalab, **MA Sahmeddini**. Serum Lactate Is Not Correlated with Mixed or Central Venous Oxygen Saturation for Detecting Tissue Hypo Perfusion During Coronary Artery Bypass Graft Surgery: A Prospective Observational Study. *Int Cardiovasc Res J.* 2013 Dec; 7(4): 130–134.
38. Sh Shahbazi, A Panah, **MA Sahmeddini**. Evaluation of factors influencing liver function test in on-pump coronary artery bypass graft surgery. *Iran J Med Sci.* 2013 Dec; 38(4): 308–313.



39. MB Khosravi, M Firoozifar, S Ghaffaripour, **MA Sahmeddini**, MH Eghbal. Early outcomes of liver transplants in patients receiving organs from hypernatremic donors. *Exp Clin Transplant*. 2013 Dec; 11(6):537-40.
40. MH Eghbal, **MA Sahmeddini**. Comparison laryngeal mask airway with the endotracheal tube for the external dacryocystorhionostomy surgery. A randomized clinical trial. *Middle East J Anaesthesiol*. 2013 Oct; 22(3):283-8.
41. **MA Sahmeddini**, A Amini, N Naderi. The effect of octreotide on urine output during orthotopic liver transplantation and early postoperative renal function; a randomized, double-blind, placebo-controlled trial. *Hepat Mon*. 2013 Sep; 13(9): e12787.
42. MH Eghbal, Sh Taregh, A Amin, **MA Sahmeddini**. Ketamine improves postoperative pain and emergence agitation following adenotonsillectomy in children. A randomized clinical trial. *Middle East J Anaesthesiol*. 2013 Jun; 22(2):155-60.
43. S Ghaffaripour, H Mahmoudi, **MA Sahmeddini**, A Alipour, AH Chohedri. Music can effectively reduce pain perception in women rather than men. *Pak J Med Sci*. 2013 Jan-Mar; 29(1): 128–131.
44. **MA Sahmeddini**, MB Khosravi. Severe Acute Hyperkalemia during Pre-Anhepatic Stage in Cadaveric Orthotopic Liver Transplantation. *Iran J Med Sci*. 2012 Sep; 37(3): 208–10.
45. **MA Sahmeddini**, MH Eghbal, MB Khosravi, S Ghaffaripour, F Janatmakan, S Shokrizade. Electro-acupuncture stimulation at acupoints reduced the severity of hypotension during anesthesia in patients undergoing liver transplantation. *J Acupunct Meridian Stud*. 2012 Feb; 5(1):11-4.

- 46.M Salehipour, A Bahador, S Nikeghbalian, K Kazemi, AR Shamsaeifar, S Ghaffaripour, **MA Sahmeddini** and et al. En-bloc transplantation: an eligible technique for unilateral dual kidney transplantation. Int J Organ Transplant Med. 2012; 3(3): 111–114.
- 47.S Ghaffaripoor Jahromi, F Jannat Makan, H Mahmoudi, MB Khosravi, **MA Sahmeddini**, S Nikeghbalian and et al. Preoperative factors as predictors of blood product transfusion requirements in orthotopic liver transplantation. Prog Transplant.2011. 21(3); 254-259.
- 48.S Ghaffaripour, H Mahmoudi, MB Khosravi, **MA Sahmeddini**, MH Eghbal, H Sattari and et al. Shiraz Protocol for Management of Severe Hyponatremia in Patients under Liver Transplantation. Prog Transplant. 2011 Sep; 21(3):254-9.
- 49.S Khademi, **MA Sahmeddini**, R Nikandish, F Ghaffaripasand. Effects of Intravenous Midazolam Premedication on Postoperative Nausea and Vomiting after Cataract Surgery under General Anesthesia. Ann Milit Health Sci Research. 2010. 8(1); 11-5.
- 50.S Ghafaripour, **MA Sahmeddini**, SM Lahsae, MB Khosravi, H Sattari, S Nikeghbalian and et al.. Hypotension after reperfusion in liver transplantation: histidine-tryptophan-ketoglutarate versus University of Wisconsin solution. Prog Transplant. 2010 Sep; 20(3):256-61.
- 51.S Ghaffaripour, H Mahmoudi, H Sattari, **MA Sahmeddini**. Comparison of Depth of Anesthesia by Bispectral Index in Different Phases of Orthotopic Liver Transplantation. Liver Transplantation. 2010. 16(6); S168-S168.
- 52.MB Khosravi, H Sattari, S Ghaffaripour, M Lahsae, H Salahi, **MA Sahmeddini** and et al. Post-reperfusion Syndrome and Outcome

Variables after Orthotopic Liver Transplantation. *Int J Organ Transplant Med.* 2010; 1(3): 115–120.

- 53.S Nikeghalian, HR Davari, F Kakaei, A Shamsaeefar, B Sanei, B Geramizadeh, M Moini, **MA Sahmeddini**, and et al. The First Modified Multivisceral Transplantation in the Middle East: A Major Advance in Transplantation Surgery in Shiraz Transplant Centre. *Int J Organ Transplant Med.* 2010; 1(4): 189–192.
- 54.**MA Sahmeddini**, A Farbood, S Ghafaripuor. Electro-acupuncture for pain relief after nasal septoplasty: a randomized controlled study. *J Altern Complement Med.* 2010 Jan; 16(1):53-7.
- 55.A Farbood, H Kamalipour, **MA Sahmeddini**, K Samadi. Comparison of the hemodynamic changes following tracheal intubation wit direct laryngoscopy and fiberoptic bronchoscopy method in hypertensive patients. *J Iran Soc Anaesth Intens Care.* 2009. 31(67); 50-57.
- 56.**MA Sahmeddini**, A Fazelzadeh. Does auricular acupuncture reduce postoperative vomiting after cholecystectomy? *J Altern Complement Med.* 2008 Dec. 14(10); 1275-9.
- 57.**MA Sahmeddini**, Sh Shahbazy , Taregh Shuja Ulhaq .Tramadol for pain relief in children undergoing adenotonsillectomy: a comparison with dextromethorphan. *Laryngoscope.* 2008 Sep; 118(9):1547-9.
- 58.R Nikandish, **MA Sahmeddini**, S Khademi. Effect of exposure to music on postoperative pain and anxiety after cesarean section under general anesthesia: a double-blind randomized placebo-controlled trial. *J Iran Soc Anesth Intens Care.* 2007; 55(2):44-53.
- 59.R Nikandish, **MA Sahmeddini**, S Khademi, F Ganji, S Soleymanzade, N Habibi. Chronic incisional pain after open appendectomy. *J Isf Med School,* 2007; 24(83):63-700.

60. MA Sahmeddini, S Khademi, F Majidi. Comparison effect of meperidine and tramadol in treatment of postoperative shivering in elective cesarean section. J Iran Uni Med Sci. 2007. 57(14); 83-9.
61. R Nikandish, MA Sahmeddini, S Khademi , N Ashkan. A retrospective study of chronic pain after cesarean section. Iran Soc Anesth Inten Care. 2006. 52(2); 46-52.
62. MA Sahmeddini, R Nikandish, S Khademi. Hemodynamic effects of three doses of dihydroergotamine during spinal anesthesia. Kowsar Med J. 2006. 11(1). 69-74.
63. R Nikandish, Khademi S, MA Sahmeddini. Prophylactic effect of low dose dexamethasone on post-operative nausea and vomiting in women undergoing anterior and posterior colporaphy: A comparison with saline. Iran Soc Anesth Intens Care. 2004. 48(2); 57-63.
64. MA Sahmeddini, SH Bigiezadeh. Comparison of the effects of adding epinephrine, midazolam and midazolam + neostigmine mixture to lidocaine in patients undergoing transabdominal resection of prostate. Armaghane - danesh Journal, 2005; 10(3):1-8.

## Presentations

1. **Comparison of Small Dose Droperidol and Placebo for Reduction of Postoperative Vomiting and Retching in elective senile cataract surgery under general anesthesia.** Poster Presentation in 1st international congress of Anesthesiology and perioperative medicine Shiraz, Iran 2-5 OCT.2002
2. **Hemodynamic effects of three doses of dihydroergotamine during spinal anesthesia.** Poster Presentation in 2nd international congress of

Anesthesiology and perioperative medicine Tehran, Iran, 9-11 February 2005

3. **Comparison of the effects of adding epinephrine, midazolam and midazolam + neostigmine mixture to lidocaine in patients undergoing transabdominal resection of prostate.** 5th Scientific annual meeting of IP, Tehran, Iran, May 2005

4. **The survey of academic staff's attitude and knowledge about community oriented medical education.** Poster Presentation in 4th Asia pacific medical education conference, Singapore, 2007.

5. **Students opinions about ideal teacher characteristics.** Poster Presentation in 4th Asia pacific medical education conference, Singapore, 2007.

6. **A study on the existing obstacles preventing the implementation of community-oriented medical education in view of the members of scientific community.** Poster Presentation in 4th Asia pacific medical education conference, Singapore, 2007.

7. **Comparison of educational and research activities of faculty staff of Fasa medical school before and after fulltime salary payments according to evaluation formularies.** 4th medical education conference, United Arab Emirates, 2004

8. **A survey of students' opinion about integrated medical learning.** Poster Presentation in AMEE, Amsterdam, Nederland, 2005

9. **Hypertension crises in kidney pancreas transplantation recipient.** The 10th congress of Iranian society for organ transplantation.

10. **Sever hyperkalemia during hepatectomy in orthotropic liver transplantation.** The 10th congress of Iranian society for organ transplantation.

**11. Shiraz protocol for management of sever hyponatremia in patients under liver transplantation.** The 10th congress of Iranian society for organ transplantation.

**12. Increase in organ donation during holy month of Ramadan.** The 10th congress of Iranian society for organ transplantation.

**13. Liver transplantation in a patient with hemophilia A.** The 10th congress of Iranian society for organ transplantation.

**14. Modified multivisceral transplantation for patients with advanced intra-abdominal desmoid tumor.** The 10th congress of Iranian society for organ transplantation.

**15. Intraoperative placement of inferior mesentric vein catheter: a novel approach for prevention of portal vein rethromsosis in living donor liver transplantation.** The 16<sup>th</sup> congress of Iranian society for organ transplantation.

**16. Anesthesia and outcome after partial hepatectomy for living donor liver transplantation: our experiences.** The 10<sup>th</sup> congress of Iranian society for organ transplantation.

## Research Experience

1. Effect of electro acupuncture in control of perioperative and postoperative pain management of septoplasty.
2. Effect of Ear acupuncture on post op nausea and vomiting.
3. Effect of electro acupuncture in control of DJD pain of knee joint.
4. Effect of low power laser therapy in acute pain management.

## Membership

## Research Interest

1. Acute pain management
2. Chronic pain management
3. Role of complementary medicine in pain management
4. Anesthesia and Intraabdominal organ Transplantation.

## Awards

The “best faculty member” of Shiraz University of Medical Sciences, Shiraz, Iran, 2013