

Dr FARID ZAND, M.D.

Professor of Anesthesiology and Critical Care Medicine

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ADDRESS

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PERSONAL DATA

Date and Place of Birth: February 27, 1970 Kermanshah Iran

Nationality: Iranian

Marital status: Married, with three children

Health condition: Good

Language: Persian; Mother Tongue

English; good (Reading, Writing, Speaking)

EDUCATION

1987 High School Diploma; University (Tohid) High School

1994 MD (Doctor of Medicine) Shiraz School of Medicine; Shiraz University of Medical Sciences,
Shiraz, Iran

1997 Certified in Iranian Board of Specialty in Anesthesiology

2005 Clinical Observer ship in Critical Care Medicine, McGill University, Montreal, Canada

2018 Completed course of Subspecialty in Critical Care Medicine, Shiraz University of Medical Sciences, Shiraz, Iran

ACADEMIC APPOINTMENTS

Assistant Professor, Department of Anesthesia, Shiraz University of Medical Sciences, Shiraz School of Medicine, 1999-2007

Associate Professor, Department of Anesthesia, Shiraz University of Medical Sciences, Shiraz School of Medicine, 2007-2014

Professor, Department of Anesthesiology, Shiraz University of Medical Science, 2014- Continued

CLINICAL EXPERIENCE

1997-1999: Staff Anesthesiologist, Shohada Hospital, Neyriz, Iran

1999-2003: Physician In charge, Pre-Anesthesia Evaluation Clinic, Motahary OPD Clinics Complex, Shiraz University of Medical Sciences

1999-2002: Head of Anesthesia Department, Hafez Obstetrics` Hospital, Shiraz School of Medicine

2003-continued: Director of Anesthesia Department, Nemazee Hospital- a 750 bedded multiple disciplinary university affiliated hospital

2006-continued: Director of Adult Critical Care Unit, Nemazee Hospital

2011-continued: Instructor in ATLS (Advanced Trauma Life Support)

2013-Continued: Director of BASIC (Basic Assessment and support in Intensive Care) Course, Iran

EMPLOYMENT

2001-2006: Assistant Director for educational affairs, Nemazee Hospital, Shiraz

2000-2004: Assistant Director, Residency training program, Department of Anesthesia, Shiraz School of Medicine

2002-2010: Scientific Advisor, Medical Supplies and Equipment Center, Shiraz University of Medical Sciences

2002-continued: Member of "The National Committee for Diagnosis & Confirmation of Brain Death"

2003-2005: Director of Clinical Research Development Office, Nemazee Hospital, Shiraz
2005-2008: Hospital Director, Nemazee Hospital, Shiraz, Iran
2008-continued: Member of operating theater committee, Nemazee Hospital, Shiraz
2010-continued: Member of committee on post-graduate educational affairs, Shiraz Medical School, Shiraz, Iran
2010-2012: Advisor, Vice-Chancellor for Health, Shiraz University of Medical Sciences
2010-continued: Director for strategic planning of Anesthesia Department, Shiraz University of Medical Sciences, Shiraz, Iran
2011-continued: Member of Board of Anesthesia for Approval of Eligibility in Anesthesia Practice, Shiraz, Iran
2011-continued: Director of Shiraz Anesthesiology and Critical Care Research Center, SUMS, Shiraz, Iran.
2013- Continued: Member of National Board of Critical Care Medicine

RESEARCH

1. V Naderi-Boldaji, **F Zand**, N Asmarian, M Banifatemi, M Masjedi, G Sabetian and et al. Does red blood cell transfusion affect clinical outcomes in critically ill patients? A report from a large teaching hospital in south Iran. ANN SAUDI MED 2024. 84-92.
2. N Asmarian, **F Zand**, G Sabetian, M Masjedi, H Haddadbakhodaei, R Nikandishnobar and et al. Machine learning-derived analysis of intensive care unit mortality in patients with ICU acquired infections. Journal of Critical Care. 81. June 2024. 154746.
3. **F Zand**, N Asmarian, M Masjedi, G Sabetian, R Nikandish Nobar, H Haddad Bakhodaei and et al. The role of antibacterial pattern of resistance on mortality associated with catheter related ICU acquired infections; a machine learning-derived analysis on the results of 8 years of surveillanc. Journal of Critical Care., June 2024, 154748.
4. G Sabetian, M Mackie, N Asmarian, M Banifatemi, GA Schmidt, M Masjedi Sh Paydar, **F Zand**. Ultrasonographic evaluation of diaphragm thickness and excursion: correlation with weaning success in trauma patients: prospective cohort study. Journal of Anesthesia. 2024.
5. V D Rosenthal, R Yin, P Nercelles, S E Rivera-Molina, S Jyoti, R Dongol, D Aguilar-De-Moros, N Tumu, J Alarcon-Rua, J P Stagnaro, S Alkhawaja, L F Jimenez-Alvarez, Y A Cano-Medina, S L Valderrama-Beltran, C M Henao-Rodas, M A Zuniga-Chavarria, A El-Kholy, H Mounir Agha, S Sahu, S O Anusandhan, M Bhattacharyya, M Kharbanda, A Poojary, P K Nair, Sh N Myatra, R Chawla, K

- Sandhu, Y Mehta, P Rajhans, **F Zand** and et al. International Nosocomial Infection Control Consortium (INICC) report of health care associated infections, data summary of 45 countries for 2015 to 2020, adult and pediatric units, device-associated module. *Am J Infect Control*. 2024 Jan 6: S0196-6553(23)00879-9.
6. M Jokar, MA Sahmeddini, **F Zand**, R Rezaee, A Bashiri. Development and evaluation of an anesthesia module for electronic medical records in the operating room: an applied developmental study. *BMC Anesthesiology* (2023) 23:378.
 7. M Karajizadeh, **F Zand**, R Sharifian, A Vazin, G Sabetian. MR Saeidnia. The Impact of a Web-based Clinical Decision Support System on Adherence to Venous Thromboembolism Prophylaxis Guidelines in ICU Nonsurgical Patients: A Prospective Study. *Research Square*.
 8. M Karajizadeh, **F Zand**, A Vazin, HR Saeidnia, BD Lund, S Priya Tummuru and et al. Design, development, implementation, and evaluation of a severe drug–drug interaction alert system in the ICU: An analysis of acceptance and override rates. *International Journal of Medical Informatics*. September 2023. 177; 105135.
 9. Z Meidani, **F Zand**, S Zare, M Shirdeli, R Sharifian, M Ouhadian and et al. Usability Assessment of an Electronic Medical Record-Embedded Clinical Decision Support System for Arterial Blood Gas Interpretation. *Stud Health Technol Inform*. 2023. 456-9.
 10. P Ghasemiyeh, A Vazin, **F Zand**, S Mohammadi-Samani. Volume of distribution as an early predictor of vancomycin induced AKI in critically ill patients. *Acta Biomed* 2023; Vol. 94, N. 5: e2023185.
 11. H Salimi, A Salah, M Heidari, M Moghadami, MJ Fallahi, **F Zand** and et al. Assessment of Laboratory and Clinical Data in COVID-19 Patients Treated by Convalescent Plasma. *Jundishapur J Chronic Dis Care*. 2023 April; 12(2):e132001.
 12. A Tabah, N Buetti, Q Staiquly, S Ruckly, M Akova, A Tarik Aslan, M Leone, A Conway Morris, M Bassetti, K Arvaniti, J Lipman, R Ferrer, H Qiu, J Artur Paiva, P Povoia, L De Bus, J De Waele, **F Zand** and et al. Epidemiology and outcomes of hospital-acquired bloodstream infections in intensive care unit patients: the EUROACT-2 international cohort study. *Intensive Care Med*. 2023 Feb; 49(2):178-190.
 13. M Masjedi, S Azadikhah, **F Zand**, N Asmariyan, G Sabetian, M Ostovan and et al. The Effectiveness of the Intermediate and Therapeutic Doses of Enoxaparin in COVID-19 Patients: A Comparative Study of Factor Xa Inhibition. *Acta Haematol* 2023; 146:137–14.
 14. M Mirjalili, **F Zand**, I Karimzadeh, M Masjedi, G Sabetian, E Mirzaei and et al. The clinical and paraclinical effectiveness of four-hour infusion vs. half-hour infusion of high-dose ampicillin-sulbactam in treatment of critically ill patients with sepsis or septic shock: An assessor-blinded randomized clinical trial. *Journal of Critical Care*. February 2023. 73; 154170.

15. **F Zand**, H Vakili, N Asmari, M Masjedi, G Sabetian, R Nikandish. Unintended Impact of Covid-19 Pandemic on The Rate of Catheter Related Nosocomial Infections and Prevalence of Multiple Drug Resistance Pathogens in Three Intensive Care Units Not Allocated to Covid-19 Patients in A Large Teaching Hospital. *BMC Infect Dis.* 2023 Jan 6; 23(1):11.
16. G Sabetian, H Abdolrahimzadeh Fard, M Ostovan, S Azadikhah, **F Zand**, M Masjedi and et al. Trauma and COVID-19: Clinical and Paraclinical similarities between Trauma Patients with Positive and Negative PCR Tests. *Bull Emerg Trauma* 2022; 10(4):172-180.
17. H Mardani, A Bashiri, G Sabetian, N Shokrpour, **F Zand**, M Masjedi and et al. Development and Evaluation of Electronic Medical Record Admission Module in Intensive Care Unit: A Case Study in Iran. *Health Man & Info Sci* 2022, 9(1), 22–31.
18. P Ghasemiyeh, A Vazin, **F Zand**, E Haem, I Karimzadeh, Amir Azadi and et al. Pharmacokinetic assessment of vancomycin in critically ill patients and nephrotoxicity prediction using individualized pharmacokinetic parameters. *Frontiers in Pharmacology.* 24 August 2022.
19. G Sabetian, A Azimi, A Kazemi, B Hoseini, N Asmari, V Khaloo, **F Zand** and et al. Prediction of Patients with COVID-19 Requiring Intensive Care: A Cross-sectional Study Based on Machine-learning Approach from Iran. *Indian J Crit Care Med.* 2022 Jun; 26(6):688-695.
20. N Davari, R Khashei, B Pourabbas, V Nikbin, **F Zand**. High frequency of carbapenem-resistant Enterobacteriaceae fecal carriage among ICU hospitalized patients from Southern Iran. *Iranian Journal of Basic Medical Sciences.* December 2022. 25(12); 1416-1423.
21. G De Pascale, M Antonelli, M Deschepper, K Arvaniti, K Blot, Ben C Brown and Abdominal Sepsis Study (AbSeS) group and the Trials Group of the European Society of Intensive Care Medicine. Poor timing and failure of source control are risk factors for mortality in critically ill patients with secondary peritonitis. *Intensive Care Med.* 2022 Nov; 48(11):1593-1606.
22. V Naderi-Boldaji, **F Zand**, N Asmari, H Marbooti, M Masjedi, M Tabibzadeh and et al. Epidemiological and clinical characteristics of critically ill patients with Guillain-Barre syndrome in Shiraz, Iran. *Research Square.* November 11th, 2022.
23. M Karajizadeh, **F Zand**, A Vazin, M Nasiri, Y Sarikhani, R Sharifian. Evaluation Criteria for the Effects of Decision Support Integrated into Computerized Provider Order Entry System: A Scoping Review. *Shiraz E-Med J.* 2022 July; 23(7):e120195.
24. P Ghasemiyeh, A Vazin, **F Zand**, E Haem, I Karimzadeh, Amir Azadi and et al. Pharmacokinetic assessment of vancomycin in critically ill patients and nephrotoxicity prediction using individualized pharmacokinetic parameters. *Frontiers in Pharmacology.* 24 August 2022.

25. H Mardani, A Bashiri, G Sabetian, N Shokrpour, **F Zand**, M Masjedi and et al. Development and Evaluation of Electronic Medical Record Admission Module in Intensive Care Unit: A Case Study in Iran. *Health Man & Info Sci* 2022, 9(1), 22–31.
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27. **F Zand**. The Impact of the Pandemic on Critical Care in Resource-limited Countries. *Iran J Med Sci.* 2022 May; 47(3): 171–172.
28. N Asmarian, **F Zand**, P Delavari, V Khaloo, Z Esmaeilinezhad, G Sabetian and et al. Predictors of Intensive Care Unit Admission in Patients with Confirmed Coronavirus Disease 2019: A Cross-Sectional Study. *Iran J Med Sci.* 2022 Sep; 47(5):450-460.
29. M Karajizadeh, **F Zand**, A Vazin, R Sharifian, N Bayati. Usability of Venous Thromboembolism Prophylaxis Recommender System: A Pilot Study. *Stud Health Technol Inform.* 2022 Jan 14; 289: 220-223.
30. **F Zand**, H Vakili, N Asmarian, M Masjedi, G Sabetian, R Nikandish. Unintended Impact of Covid-19 Pandemic on The Rate of Catheter Related Nosocomial Infections and Prevalence of Multiple Drug Resistance Pathogens in Three Intensive Care Units Not Allocated to Covid-19 Patients in A Large Teaching Hospital. *Research Square.* 2022.
31. S Zare, Z Meidani, M Ouhadian, H Akbari, **F Zand**, E Fakharian and et al. Identification of data elements for blood gas analysis dataset: a base for developing registries and artificial intelligence-based systems. *BMC Health Serv Res.* 2022. 22:317. 1-20.
32. M Karajizadeh, **F Zand**, R Sharifian, R Nikandish, A Vazin, L Davoodian and et al. Experience with Pharmacological Prophylaxis for Venous Thromboembolism in Surgical ICUs in Tertiary Care Hospitals in Southwest Asia. *Indian J Surg.* 2022. 1-5.
33. G Sabetian, F Feiz, AR Shakibafard, H Abdolrahimzadeh Fard, S Sefidbakht, SH Jafari, HR Abbasi, M Zare, A Roudgari, **F Zand** and et al. Challenges of diagnosis of COVID-19 in trauma patients: A case series. *Trauma.* 2021. 23(3); 218–229.
34. A Arastehfar, S Khanjari, Z Zareshahrabadi, W Fang, W Pan, E Asadpour, F Daneshnia, M Ilkit, T Boekhout, D S Perlin, **F Zand** and et al. Clinical and microbiological features of candiduria in critically ill adult patients in Shiraz, Iran (2016–2018): deviations from international guidelines and fluconazole therapeutic failure. *Med Mycol J.* June 2021. 59(6); 600–607.

35. MB Khosravi, **F Zand**, A Hedayati, SM Tabibzadeh, E Amiri-Ardekani, M Amini. Faculty Members Burnout in COVID-19 Pandemic Period; Shiraz Medical School as a Sample. Shiraz E-Med J. 2022 March; 23(3): e119033.
36. E Siavashi, Z Kavosi, **F Zand**, M Amini, N Bordbar. Inappropriate hospital stays and association with lack of homecare. 2021. EMHJ. 27(7); 656- 664.
37. G Sabetian, **F Zand**, F Mirhadi, MR Hadavi, E Asadpour, L Dehghanpisheh and et al. Adequacy of maternal anesthesia depth with two sodium thiopental doses in elective caesarean section: a randomized clinical trial. BMC Anesthesiol. (2021) 21:201. 1-8.
38. M Karajizadeh, **F Zand**, R Sharifian, A Vazin, N Bayati. Effect of Web-based Clinical Decision Support Systems on Adherence to Venous Thromboembolism Prophylaxis guideline among ICU Nonsurgical Patients: A Prospective Before and After Study. Research Square. 2021.
39. M Karajizadeh, **F Zand**, R Sharifian, A Vazin, N Bayati. A Study on Design, Development, Implementation, and Evaluation of Severe Drug-Drug Interaction Alert System in ICU. Research Square. 2021.
40. F Khodadadi, S Punait, J Kolacz, **F Zand**, A Foroutan, GF Lewis. Use of heart rate variability to predict hospital length of stay for COVID-19 patients: A prospective observational study. Int J Crit Illn Inj Sci. 2021. 11(3); 134-141.
41. AH Yousefinya, C Torabizadeh, **F Zand**, M Rakhshan, M Fararoei. Effectiveness of application of a manual for improvement of alarms management by nurses in Intensive Care Units. Investigación y Educación en Enfermería. Vol. 39 No.2, May-August 2021.
42. P Ghasemiyeh, S Mohammadi-Samani, N Firouzabadid, A Vazin, **F Zand**. A brief ICU residents' guide: Pharmacotherapy, pharmacokinetic aspects and dose adjustments in critically ill adult patients admitted to ICU. Trends in Anaesthesia and Critical Care Available online 20 May 2021.
43. V Daniel Rosenthal, W Duszynska, Bat-Erdene Ider, V Gurskis, M A.Al-Ruzzieh RN, Sh Nainan Myatra, D Gupta, S Belkebir, N Upadhyay, **F Zand** and et al. International Nosocomial Infection Control Consortium (INICC) report, data summary of 45 countries for 2013-2018, Adult and Pediatric Units, Device-associated Module. American Journal of Infection Control. Available online 24 April 2021.
44. M Karajizadeh, **F Zand**, A Vazin, M Nasiri, R Sharifian. Identification and Prioritization of Clinical Decision Support Functionalities Built Within A Computerized Provider Order Entry System. Health Scope: 10 (1); e104607.

45. P Ghasemiyeh, A Vazin, **F Zand**, A Azadi, I Karimzadeh, S Mohammadi-Samani. A simple and validated HPLC method for vancomycin assay in plasma samples: the necessity of TDM center development in Southern Iran. *Res Pharm Sci.* 2020 Dec; 15(6): 529–540.
46. G Sabetian, F Feiz, A Shakibafard, H Abdolrahimzadeh Fard, S Sefidbakht , S H Jafari, HR Abbasi, M Zare, A Roudgari, **F Zand**, M Masjedi, Sh Paydar. Challenges of diagnosis of COVID-19 in trauma patients: A case series. *Trauma.* 2021, Vol. 23(3) 218–229.
47. A Sanaei Dashti, R Borazjani, **F Zand**, Z Zand, R Bahrololom, Z Naal. Infection Control Important Points During Anesthesia and Surgery in the COVID-19 Era: A Concise Summary. *Archives of Pediatric Infectious Diseases.* 2020: 8 (3); e104408
48. A Arastehfar, Sa Yazdanpanah, M Bakhtiari, W Fang, W Pan, Sh Mahmoudi, K Pakshir, F Daneshnia, T Boekhout, M Ilkit, DS Perlin, K Zomorodian, **F Zand**. Epidemiology of candidemia in Shiraz, southern Iran: A prospective multicenter study (2016–2018). *Med Mycol.* 21 July 2020.
49. E Fallahnejad, F Niknam, R Nikandish Nobar, **F Zand**, R Sharifian. Development of Minimum Data Set for Electronic Documentation of Progress Note in the General Intensive Care Unit. *Iran J Med Sci.* 2020; 9(1): e37.
50. Z Javid, M Shadnoush, M Khadem-Rezaiyan, N Mohammad Zadeh Honarvar, A Sedaghat, SMR Hashemian, SH Ardehali, M Nematyi, O Pournik, MT Beigmohammadi, M Safariani, O Moradi Moghaddamm, M Khoshfetrat, **F Zand** and study group. Nutritional adequacy in critically ill patients: Result of PNSI study. *Clin Nutr.* June 2020. In Press.
51. VD Rosenthal, B Erdene , D Gupta, S Belkebir , P Rajhans , F Zand and et al. Six-year multicenter study on short-term peripheral venous catheters-related bloodstream infection rates in 727 intensive care units of 268 hospitals in 141 cities of 42 countries of Africa, the Americas, Eastern Mediterranean, Europe, South East Asia, and Western Pacific Regions: International Nosocomial Infection Control Consortium (INICC) findings. *Infect Control Hosp Epidemiol*, 2020 May; 41(5):553-63.
52. VD Rosenthal, S Belkebir, F Zand, M Afeef, VL Tanzi, HM Al-Abdely and et al. Six-year multicenter study on short-term peripheral venous catheters-related bloodstream infection rates in 246 intensive units of 83 hospitals in 52 cities of 14 countries of Middle East: Bahrain, Egypt, Iran, Jordan, Kingdom of Saudi Arabia, Kuwait, Lebanon, Morocco, Pakistan, Palestine, Sudan, Tunisia, Turkey, and United Arab Emirates—International Nosocomial Infection Control Consortium (INICC) findings. *J Infect Public Heal.* 2020. 13(8). 1134-41.

53. V Daniel Rosenthal, I Bat-Erdene, D Gupta, S Belkebir, Pr Rajhanse, **F Zand**, and et al. International Nosocomial Infection Control Consortium (INICC) report, data summary of 45 countries for 2012-2017: Device-associated module. *Am J Infect Control*. 2020. 48(4). 423-32.
54. L De Bus, P Depuydt, J Steen, S Dhaese, K De Smet, A Tabah, M Akova, M Osbert Cotta, G De Pascale, G Dimopoulos, S Fujitani, J Garnacho-Montero,15,16 Marc Leone,17 Jeffrey Lipman, M Ostermann, J Artur Paiva, J Schouten, F Sjövall, J-François Timsit, JA Roberts, J Ralph Zahar, **F Zand** and DIANA study group. Antimicrobial de-escalation in the critically ill patient and assessment of clinical cure: the DIANA study. *Intensive Care Med*. 2020; 46(7): 1404–17.
55. F Dehghanrad, Z Nobakht-e-Ghalati, **F Zand**, S Gholamzadeh, M Ghorbani, V Rosenthal. Effect of instruction and implementation of a preventive urinary tract infection bundle on the incidence of catheter associated urinary tract infection in intensive care unit patients. *Electron J Gen Med*. 2019; 16(2):em131.
56. E Asadpour, R Nikandish, **F Zand**, G Sabetian, M Masjedi , M Mackie. Ecmo in a diabetic patient with cerebellar infarction and ARDS- A case report. *Sci J Kurdistan Univ Med Sci*. 2019, 24(5): 24-29
57. MR Hadavi, M Beihaghi, **F Zand**, G Sabetian, S Azemati, E Asadpour. A Comparison Between Thiopental Sodium and Propofol for Induction of Anesthesia in Elective Cesarean Section Using Bispectral Index and Isolated Forearm Technique: A Randomized, Double-Blind Study. *Asian J Anesthesiol*. Sep 2019, 57(3):93-100.
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60. R Nikandish, **F Zand**, G Sabetian, H Faghihi, M Masjedi, B Maghsoudi and et al. Comparing the Ventilator-associated Pneumonia Incidence when Pantoprazole or Ranitidine is used for Stress Ulcer Prophylaxis in Critically Ill Adult Patients. 2019. *Int J Med Sci Public Health*. 6(4):160-64.
61. F Edrisi , **F Zand**, I Nikbakht , G Sabetian , M Masjedi , Z Mousavi and et al. Evaluation of Patient`s Energy Intake between Different Types of Formulas in the First Week of Starting Enteral Feeding in Intensive Care Unit Patients. *Med J Islam Repub Iran*. 2018.
62. G Sabetian Fard, **F Zand**, E Asadpour, M Ghorbani, P Adibi, MM Hosseini and et al. Evaluation of hyoscine N-butyl bromide efficacy on the prevention of catheter-related bladder discomfort after

- transurethral resection of prostate: a prospective randomized, double-blind control trial. *Int Urol Nephrol*. 2017; 49:1907–13.
63. M Ghorbani, H Ghaem, A Rezaianzadeh, Z Shayan, **F Zand**, R Nikandish. Predictive factors associated with mortality and discharge in intensive care units: a retrospective cohort study. *Electron Physician*. 2018 Mar; 10(3): 6540–47.
64. F Niknam, M Khammarnia, **F Zand**, E Fallahnejad, R Sharifian. Evaluating Physicians and Nurses' Satisfaction with Computerized Physician Order Entry System in Iran. *J Health Man & Info*. 2018; 5(2): 51–6.
65. G Sabetian Fard, **F Zand**, E Asadpour, M Ghorbani, P Adibi, MM Hosseini and et al. Reply to the letter: Evaluation of hyoscine N-butyl bromide efficacy on the prevention of catheter-related bladder discomfort after transurethral resection of prostate: a prospective randomized, double-blind control trial. *Int Urol Nephrol*. August 2018. 50(8): 1447.
66. A Sanaei Dashti , MR Kadivar , A Tabatabai , **F Zand**, S Salami , S Ezadpanah and et al. Prevalence of Healthcare-Associated Infections in Pediatric Wards of Nemazee Teaching Hospital in Shiraz: A Comparison with the Whole Hospital. *Arch Pediatr Infect Dis*. In Press: e83488.
67. V Daniel Rosenthal, HM Al-Abdely, AA El-Kholy, SA Aziz AlKhawaja, H Leblebicioglu, Y Mehta, V Rai, N Viet Hung, S Sami Kanj, M Foda Salama, E Salgado-Yepey, N Elahi, R Morfin Otero, A Apisarnthanarak, B Matias De Carvalho, B Erdene Ider, D Fisher, MC SG Buenaflor, MM Petrov, AM Quesada-Mora, **F Zand** and et al. International Nosocomial Infection Control Consortium report, data summary of 50 countries for 2010-2015: Device-associated module. *Am J Infect Control*. 2016. 44(12): 1495-1504.
68. **F Zand**, L Zahed, P Mansouri, F Dehghanrad, M Bahrani, M Ghorbani. The effects of oral rinse with 0.2% and 2% chlorhexidine on oropharyngeal colonization and ventilator associated pneumonia in adults' intensive care units. *J Crit Care*. 2017 Aug; 40:318-322.
69. B Maghsoudi, M Mackie, R Mashhadi, **F Zand**, M Masjedi, G Sabetian. How anticonvulsant therapy should be managed in ICU: can an 80 years old patient tolerate eight anticonvulsant? *Acta Anaesthesiol Scand*. 2017. 61 (8), 1060-61.
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93. P Mansouri, Sh Javadpour, **F Zand**, F Ghodsbin, G Sabetian, M Masjedi and et al. Implementation of a protocol for integrated management of pain, agitation, and delirium can improve clinical outcomes in the intensive care unit: A randomized clinical trial. *Journal of Critical Care*. December 2013. 28(6): 918-22.
94. **F Zand**, G Sabetian. Neutrally Adjusted ventilator Assist (NAVA): Promises and Challenges. *J Pulmon Resp Med*. 2012. 2(3): 1-2.

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96. **F Zand**, A Khosravi , R Nikandish, B Maghsoudi. Internal assessment of one of the intensive care units affiliated to Shiraz University of medical sciences using clinical governance check lists. *J IRAN Soc Anaesth Inten CARE.* 2012. 34(80): 7-11.
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100. G Sabetian Jahromi, **F Zand**, A Khosravi. Acute respiratory distress syndrome associated with H1N1 influenza during pregnancy. *Int J Obstet Anesth* 2010; 19(4): 465-6.
101. **F Zand**, G Sabetian, Z Ghodrati. Routine Change of Nasogastric Tube in Intensive Care Unit: Friend or Foe. *Iran Red Crescent Med J* 2011; 13(5): 354-5.
102. **F Zand**, S Asadi, P Katibeh. Good outcome after digoxin toxicity despite very high serum potassium level. *Iran Red Crescent Med J* 2011; 13(9):680-81.
103. **F Zand**, E Allahyary, AR Hamidi. Postoperative agitation in preschool children following emergence from sevoflurane or halothane anesthesia: A randomized study on the forestalling effect of midazolam premedication versus parental presence at induction of anesthesia. *Acta Anaesthesiol Taiwan.* 2011; 49(3): 96-9.
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106. **F Zand**, AA Nekooeian, M Rohani. Endotracheal tube cuff pressure monitoring in intensive care units. *Iran Red Crescent Med J* 2008; 10(3): 223-7.

107. Sh Shahbazi, **F Zand**, J Saem. Comparative evaluation of the Cerebral state index™ and Bispectral index™ monitoring during propofol-remifentanil anesthesia for open heart surgery. *Pak J Med Sci.* 2007; 23(4): 505-9.
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110. AP Kazemi, **F Zand**, M Sedaghat. Blood sparing efficiency of transdermal nitroglycerine during open fixation of femur shaft fractures: A randomized, double-blind study. *J Clin Anesth.* 2006; 18; 495-8.
111. M Salehipour, A Khezri, A Rasekhi, **F Zand**. Left renal vein transposition for treatment of the Nutcracker syndrome. *Arch Iran Med.* 2006 Apr; 9(2):161-2.
112. R Nikandish, **F Zand**, H Jamshidi. Assesment of cricoid pressure application by anesthesiologists. *J Iran Soc Anesth Inten Care.* 2006; 57(1): 17-23.
113. **F Zand**, A Amini. Use of the Laryngeal Tube-S™ for airway management and prevention of aspiration after a failed tracheal intubation in a parturient. *Anesthesiology.* 2005; 102(2):481-3.
114. Sh Shahbazi, M Haghigat, **F Zand**. Impact of bispectral index monitoring on propofol and remifentanil consumption during coronary artery bypass graft surgery. *J Iran Soc Anesth Inten Care.* 2005; 52(4): 5-14.
115. **F Zand**, MR Razavizadeh, S Azemati. Comparative study of onset and duration of action of 0.5% bupivacain and a mixture of 0.5% bupivacaine and 2% Iodicaine for epidural anesthesia. *Acta Med Iran.* 2004; 42(4): 256-8.
116. **F Zand**, R Abdolmotallebi, Khosravi A. The Influence of surgical site on early postoperative hypoxemia. *Middle East J Anesthesiol.* 2004; 17(6):1127-33.
117. **F Zand**, Z Behin-Aieen. The applicability of Esophageal Detector Device in the differential diagnosis of endotracheal and esophageal intubation. *J Iran Soc Anaesth Inten Care.* 2003; 41(1): 23-8.

PARTICIPATION IN MEDICAL CONFERENCES & CONGRESSES

1. The 20th Emirates Critical Care Conference. Antibiotic Associated Thrombocytopenia in ICU; Prevalence and Significance. 10-12 April 2024. Dubai UAE.

2. 16th World Intensive and Critical Care Congress (WICC). Risk Factors and Outcome of Ventilator Associated Acinetobacter Baumannii Infection in ICU; Results of a long battle. Istanbul, Turkey. 26-30 August 2023.
3. 16th World Intensive and Critical Care Congress (WICC). Ventilator associated pneumonia (VAP). Istanbul, Turkey. 26-30 August 2023.
4. 16th World Intensive and Critical Care Congress (WICC). Ultrasonographic comparison of the diaphragm function in critically ill patients with volume and pressure modes. Istanbul, Turkey. 26-30 August 2023.
5. 16th World Intensive and Critical Care Congress (WICC). Central line associated venous thrombosis in adult trauma intensive care units. Istanbul, Turkey. 26-30 August 2023.
6. The 19th Emirates Critical Care Conference. The role of extended infusion of beta lactams in treatment of adult patients with sepsis or septic shock in the ICU. 12-14 May 2023. Dubai UAE.
7. The 18th Emirates Critical Care Conference. Risk Factors and Outcome of Ventilator Associated Acinetobacter Baumannii Infection in ICU; Review of Five Years of Struggle. 13-15 May 2022. Dubai UAE.
8. The 18th Emirates Critical Care Conference. Carbapenem Resistance Enterobacteriaceae in ICU A Mysterious Killer. 13-15 May 2022. Dubai UAE.
9. The 15th Emirates Critical Care Conference. Epidemiology and antimicrobial resistance of UTI candida infection in ICU. 3-6 April 2019. Dubai UAE.
10. 8th international Fars heart foundation. Acute kidney injury after cardiac surgery. April 24-27, 2018 in Shiraz.
11. Shiraz second international congress in mobile health. Designing and Implementation of Computerized Provider Order Entry Software on Mobile Device in Iran. 22-23 Feb 2017, Shiraz.
12. 4th Annual congress in critical care. Critical Care Sonography. 11-13 Jan 2017, Tehran.
13. The 14th Emirates Critical Care Conference. Catheter-Related Urinary Tract Infection (UTI). 5-7 April 2018. Dubai UAE.
12. The 13th Emirates Critical Care Conference. Turning analgesia and sedation in ICU, How inexpensive interventions can improve precious outcomes. 6-8 April 2017. Dubai UAE.
13. 29th ESCIM Congress. Implementation of a protocol for integrated management of pain, agitation, and delirium can improve clinical outcomes in the intensive care unit: A randomized clinical trial. 1-5 Oct 2016, Milan, Italy.

14. 29th ESCIM Congress. The effects of oral rinse with 0.2% and 2% chlorhexidine on oropharyngeal colonization and ventilator associated pneumonia in adults' intensive care units 1-5 Oct 2016, Milan, Italy.
15. 12th Emirates Critical Care Conference. An International comparison of catheter associated infections in intensive care units. 7-9 April 2016. Dubai UAE.
16. 3rd international congress of critical care. New finding in critical care medicine (second section). 2023 Jan 2016.
17. 3rd international congress of critical care. control of pain, agitation, and delirium in ICU. 20-23 Jan 2016.
18. 11th Emirates Critical Care Conference. Implementation of a protocol to control pain, agitation and delirium in opium abuse patients admitted in the intensive care unit; a feasibility study. 9-11 Apr 2015. Dubai UAE.
19. 11th Emirates Critical Care Conference. Incidence of ventilator associated pneumonia when pantoprazole or ranitidine is used for stress ulcer prophylaxis in critically ill adult patients; A pilot study. 9-11 Apr 2015. Dubai UAE.
20. 12th European Nutrition Conference. Nutritional Assessment in Critically Ill patients: a cohort study from. 20-23 October, 2015. Berlin Germany.
21. 12th European Nutrition Conference. The Beneficial Effects of Alpha-Lipoic Acid in Critically Ill Patients: A Prospective, Randomized, Placebo-Controlled Trial. 20-23 October, 2015. Berlin Germany.
22. The 9th International Congress of Clinical Microbiology. Infections in critically ill patients: challenges in diagnosis and treatment October 13-15 2015. Shiraz Iran.
23. 12th International Congress of Anesthesiology Critical Care & Pain. New finding in Critical Care Medicine. 23-25 September 2015, Tehran Iran. Invited Lecturer.
24. 12th International Congress of Anesthesiology Critical Care & Pain. Control of pain, agitation and delirium in ICU. 23-25 September 2015, Tehran Iran. Invited Lecturer.
25. 4th International Congress of Minimally Invasive Surgery. Anesthesia in minimal invasive surgery. 20-24 April 2015, Shiraz, Iran. Invited Lecturer.
26. 10th Emirates Critical Care Conference. Implementation of an analgesia, sedation and delirium protocol can improve clinically significant outcomes. 3-5 Apr 2014. Dubai UAE.
27. 6th International Congress on Pulmonary Diseases Intensive Care and Tuberculosis. Implementation of a protocol for integrated management of pain agitation and delirium can improve clinical outcome in the ICU, A randomized clinical trial. 15-12 Oct 2013. Thran Iran. Invited Lecturer

28. 5th International Congress on Pulmonary Diseases, Intensive Care and Tuberculosis. Invited Chair, 15-18 October 2011, Tehran Iran.
29. FCCS Workshop, Invited Instructor; Iranian TB and Respiratory Diseases Research Center, Masih Daneshvari Hospital, 12-15 June 2011.
30. Induced hypothermia, Invited lecturer; 6th International congress on Intensive Care Medicine, 27-29 April 2011, Tehran Iran.
31. Workshop on Critical Care Ultrasonography, Workshop coordinator; 6th International congress on Intensive Care Medicine, 27-29 April 2011, Tehran Iran.
32. Alibai A, Zand F, Rahimi A. Erythropoietin plus methylprednisolone or methylprednisolone in the treatment of acute spinal cord injury: A preliminary report. Poster presented at Society of Critical Care Annual Congress; January 15-19, 2011 San Diego, California, USA.
33. Sedation, Analgesia and Delirium in ICU; Invited Lecturer, 5th annual Middle East Cardiovascular Congress (MECC 2011) 23-25 of February 2011, Kish, Iran.
34. Ultrasound in Critical Care Workshop attendance; Emirares Critical Care Conference April 26th 2010, Dubai, UAE.
35. Seminar Coordinator, New Concepts in Nutrition in ICU, 27 May 2010, Shiraz, Iran.
36. Pain management in Intensive Care Unit; Invited lecturer, 22nd International Congress of Pediatrics, Oct 14-18, 2010, Tehran, Iran.
37. Neurologic complications after open heart surgery; Invited Lecturer, 4th annual Middle East Cardiovascular Congress (MECC 2010) 3-5 March 2010, Kish - Iran.
38. Critical Care Nephrology Post-graduate Course; 22nd Annual Congress, European Society of Intensive Care Medicine, Vienna, Austria, 11 October, 2009.
39. Gastrointestinal Motility Disorders in ICU, Invited Lecturer, GI tract and Liver Diseases Conference, Najaf Ashraf, Iraq, 12-14 October, 2010.
40. Vessal Gh, Namazi S, Davarpanah A, Foroughinia F, Zand F. Evaluation of prophylactic antibiotic administration at the surgical ward of Nemazi Hospital. Abstract presented as poster at the 2nd International Congress of Clinical Microbiology, Oct. 2008, Shiraz, Iran.
41. Invasive Hemodynamic Monitoring Workshop, Invited Lecturer, 9th Iranian congress of Anesthesiology and Reanimation, November 1-3, 2006, Mashhad, Iran.
42. Arterial blood gas analysis workshop, Invited Lecturer. 9th Iranian congress of Anesthesiology and Reanimation. November 1-3, 2006, Mashhad, Iran,
43. September 25-27, 2005, Tehran, Iran. 2nd Iranian congress of Critical Care Medicine. Quality improvement in intensive care unit, Invited Lecturer.

44. October 11-15, 2003, San Francisco, California. ASA annual meeting Poster Presentation: " Does High Resting Cuff Diameter of Endotracheal Tube Result i n Lower Incidence of Sore Throat and/or Hoarseness after Caesarian Section".
45. February 2-9, 2003 European Society of Regional Anesthesia (ESRA) Winter Forum, Davos, Switzerland, Poster presentation entitled: "Comparative Study of Onset and Duration of Action of 0.5% Bupivacaine and a Mixture of 0.5% Bupivacaine and 2% Lidocaine for Single Shot epidural Anesthesia"
46. October 2-5, 2002 1st International Congress of Anesthesiology and Perioperative Medicine & 7th Iranian Congress of Anesthesia and Critical Care Oral Presentation: "Early Postoperative Hypoxemia is not Influenced by the Site of Surgical Incision if Long Acting Sedative and Narcotics are Used Preoperatively" Oral Presentation: " Self Inflating Bulb: Assessment of a New Method to Distinguish Esophageal from Tracheal Intubation".
47. February 14, 2002 Anesthesiology CME Conferences, Oral Presentation "Ventilatory Support".
48. January 15, 2001 Obstetrics & Gynecology CME Conferences, Oral Presentation "Analgesia for Labor and Delivery".

MEMBERSHIPS

- ☐ Member, Iranian Society of Anesthesia & Critical Care
- ☐ Member, Iranian Medical Council 1994-continued
- ☐ Member, European Society of Anesthesiologists 2002-2006
- ☐ Member, Society of Critical Care Medicine 2007 - continued
- ☐ Member, American College of Chest Physicians 2010 – continued
- ☐ Member, European Society of Intensive Care Medicine 2013- continued

MEMBER OF EDITORIAL BOARD

Member of the Editorial Board: Journal of Pulmonary and Respiratory Medicine

Member of the Editorial Board: Iranian Journal of Medical Sciences; The bimonthly journal of Shiraz University of Medical Sciences.

Reviewer: Journal of Clinical Anesthesia; The Official Journal of the Society for Airway Management and the Official Journal of the American Association of Clinical Directors.

Reviewer: Iranian Red Crescent Medical Journal; The official monthly Journal of the Iranian Hospital of Dubai.

INTERESTS

Swimming, Internet, Classis Iranian Music

AWARDS

Elected as the Best Tutor, Department of Anesthesiology, Shiraz University of Medical Sciences, 2007.