

# Mahmoud Saghaei

Department of Anesthesia & Intensive Care, Isfahan

University of Medical Sciences

My Citations at: <http://scholar.google.com/citations?user=iCabiLYAAAAJ>

## **Experience**

Department of Anesthesia, Isfahan University of Medical Sciences  
33 years

Professor  
2004 - Present - 18 years

Associate Professor  
1999 - 2004 - 5 years

Assistant Professor  
1989 - 1999 - 10 years

Editorial Board Member, Journal of Medical Signals & Sensors

Medical Image and Signal Processing Research Center, Isfahan University of  
Medical Sciences  
2009 - Present - 13 years  
<http://jmss.mui.ac.ir/>

Editorial Board Member, Iranian Red Crescent Medical Journal  
Iranian Hospital, Dubai  
2005 - Present - 17 years  
<http://ircmj.com/>

National Board of Anesthesia  
Board Member  
National Board of Anesthesia  
2003 - 2014 - 11 years

STRICTA Collaborator  
2008 - 2010 - 2 years  
MacPherson H, Altman DG, Hammerschlag R, Youping L, Taixiang W, White A,  
Moher D; STRICTA Revision Group. Revised STAndards for Reporting Interventions  
in Clinical Trials of Acupuncture (STRICTA): extending the CONSORT statement.  
PLoS Med. 2010 Jun 8;7(6):e1000261. doi: 10.1371/journal.pmed.1000261  
Editor in Chief, Journal of Research in Medical Sciences

Research Department, Isfahan University of Medical Sciences  
1998 - 2010 - 12 years

Open Journal System translator and plugin developer  
Public Knowledge Project  
1997 - 2010/13 years  
Vancouver, Canada

## **Education**

Shanxi University of Traditional Chinese Medicine, PRC  
Fellowship in Acupuncture and Oriental Medicine  
1998 - 1998

Isfahan University of Medical Sciences  
Specialist, Anesthesiology  
1986 - 1989

Isfahan University of Medical Sciences  
Doctor of Medicine (MD) Medicine  
1977 - 1985

## **Selected Projects**

Qminim: 2012 - Present  
Based on MinimPy (<http://sourceforge.net/projects/minimpy/>), QMinim is a web-based minimization application, for allocation of subject to different arms of a clinical trial. It is an alternative to randomization, with the advantage of balancing arms of trial with respect to preselected prognostic factors. All aspects of minimization procedure including treatments, factors, minimization protocols, and including a preload can be customized using QMinim.

Disruptive behavior among physicians: Jan 2011 - Present  
We are setting up a study on the frequency of disruptive behavior among health workers in critical health related areas such as operating room, intensive care unit and emergency departments. This will be the first study on the subject in Iran. The subject seemed to be very important and much neglected.

MinimPy: 2010 - Present  
MinimPy is a desktop application program for sequential allocation of subjects to treatment groups in clinical trials by using the method of minimisation. Comprehensive reference help is available at: <http://minimpy.sourceforge.net>  
See also the article "Implementation of an open-source customizable minimization program for allocation of patients to parallel groups in clinical trials" at: <http://www.scirp.org/journal/PaperInformation.aspx?PaperID=8518>  
Minimizer: Oct 2013

Minimizer is an android app for minimizing subjects to different arms of a clinical trial. Minimization is the process of allocating a subject to an arm of a clinical trial

in a way to minimize the differences between arms with respect to predetermined prognostic factors. It is superior to randomization because it minimize the difference among groups in addition to reducing imbalances. For more information about minimization usage in clinical trials see...

#### Random Allocation Software: 2004 - 2005

The main objective of the Random Allocation Software project was to enhance the user's control over different aspects of randomization in parallel group trials, including output type and format, structure and ordering of generated unique identifiers and enabling users to specify group names for more than two groups.

### **Selected Books**

Acute Respiratory Distress Syndrome  
Acupuncture Pocket Book  
Nomenclature of Mechanical Ventilation  
Mechanical Ventilation Waveforms

### **Selected Journal Articles**

- [Expanding unilateral lung collapse using airway pressure release ventilation applied independently to the collapsed lung through the double-lumen endotracheal tube](#) 2022  
M Saghaei  
Journal of Research in Medical Sciences 27 (1), 5
- [Comparative Assessment of the Effects of Two Methods of Pressure Support Adjustment on Respiratory Distress in Patients under Mechanical Ventilation Admitted to Intensive Care ...](#) 2021  
P Barati, S Ghafari, M Saghaei  
Indian Journal of Critical Care Medicine: Peer-reviewed, Official ...
- [Ventilator Mode Finder: An Android application to find equivalent of a mode on different ventilators](#) 2021  
M Saghaei  
Journal of Research in Medical Sciences: The Official Journal of Isfahan ...
- [The Prevalence and Outcome of Disruptive Behaviors in Nurses and Physicians: A Descriptive Study in Iranian Health Care Context](#) 2020  
M Saghaei, G Ahmadzadeh, S Haghghat  
Iranian Journal of Psychiatry and Behavioral Sciences 14 (4)
- [Effects of open and closed tracheal suctioning on pain in mechanically ventilated patients](#) 1 2020  
F Khayer, S Ghafari, M Saghaei, A Yazdannik, V Atashi  
Iranian Journal of Nursing and Midwifery Research 25 (5), 426
- [Efficacy of closed endotracheal suctioning in critically ill patients: A clinical trial of comparing two levels of negative suctioning pressure](#) 2019  
A Yazdannik, M Saghaei, S Haghghat, M Eghbali-Babadi  
Nursing Practice Today 6 (2), 63-70
- [Investigation Of Incidence Of Disruptive Behaviors In Health Care Units](#) 2019  
S Haghghat, M Saghaei, G Ahmadzadeh

MEDICAL ETHICS 14 (44), 00-00

- [Effect of interprofessional education of medication safety program on the medication error of physicians and nurses in the intensive care units](#) 25 2019  
A Irajpour, S Farzi, M Saghaei, H Ravaghi  
Journal of education and health promotion 8
- [Tracheal sound analysis for automatic detection of respiratory depression in adult patients during cataract surgery under sedation](#) 2 2018  
N Esmaeili, H Rabbani, S Makaremi, M Golabbakhsh, M Saghaei, ...  
Journal of medical signals and sensors 8 (3), 140
- [The most frequent and important events that threaten patient safety in intensive care units from the perspective of health-care professionals'](#) 10 2018  
S Farzi, M Saghaei, A Irajpour, H Ravaghi  
Journal of research in medical sciences: the official journal of Isfahan ...
- [Weak Professional Interactions as main Cause of Medication Errors in Intensive Care Units in Iran.](#) 8 2017  
S Farzi, A Irajpour, M Saghaei, H Ravaghi  
Iranian Red Crescent Medical Journal 19 (11)
- [Causes of medication errors in intensive care units from the perspective of healthcare professionals](#) 51 2017  
S Farzi, A Irajpour, M Saghaei, H Ravaghi  
Journal of research in pharmacy practice 6 (3), 158
- [Effect of ondansetron on prevention of post-induction hypotension in elderly patients undergoing general anesthesia: A randomized, double-blind placebo-controlled clinical trial](#) 6 2015  
M Golparvar, M Saghaei, MA Saadati, S Farsaei  
Saudi journal of anaesthesia 9 (4), 365
- [Determining the effect of laser acupuncture in treating stutterers in comparison with speech therapy](#) 4 2015  
B Shafiei, M Heshmatipour, S Tavakol, M Saghaei, Z Ghayumi  
Advanced Biomedical Research 4
- [Electrical stimulation of acupuncture points for analgesia during bone marrow aspiration and biopsy: A randomized double-blind placebo-controlled trial](#) 4 2014  
O Shokrani, M Saghaei, F Ashrafi, A Sadeghi  
Advanced Biomedical Research 3
- [Effects of intra-operative end-tidal carbon dioxide levels on the rates of post-operative complications in adults undergoing general anesthesia for percutaneous nephrolithotomy ...](#) 19 2014  
M Saghaei, G Matin, M Golparvar  
Advanced biomedical research 3
- [Comparative evaluation of the effects of hydroxyethyl starch on coagulation state of patients during brain tumor surgeries in comparison to crystalloids by thromboelastography](#) 4 2014  
M Golparvar, M Saghaei, H Hamidi, P Sajedi, P Kashefi, O Aghadavoudi, ...  
Journal of Research in Medical Sciences: The Official Journal of Isfahan ...

- [Comparing the Quality of Topical Anesthesia with Warmed or Cold Tetracaine in Cataract Surgery.](#) 2013  
M Saghaei, L Jamali, A Dehghan, H Soltani, K Montazeri  
Journal of Isfahan Medical School 31 (253)
- [Comparing two levels of closed system suction pressure in ICU patients: Evaluating the relative safety of higher values of suction pressure](#) 21 2013  
AR Yazdannik, S Haghighat, M Saghaei, M Eghbali  
Iranian journal of nursing and midwifery research 18 (2), 117
- [Random allocation software. 2004](#) 12 2013  
M Saghaei
- [Pre emptive analgesia for reducing pain after cholecystectomy: Oral tramadol vs. acetaminophen codeine](#) 4 2013  
SMHT Zavareh, P Kashefi, M Saghaei, H Emami  
Advanced Biomedical Research 2
- [Effect of preoperative volume loading on the intraoperative variability of blood pressure and postoperative nausea and vomiting](#) 5 2012  
SM Heidari, M Saghaei, Z Shafiee  
Medical Archives 66 (2), 94
- [Predicting efficiency of post-induction mask ventilation based on demographic and anatomical factors](#) 3 2012  
M Saghaei, H Shetabi, M Golparvar  
Advanced Biomedical Research 1
- [Benzodiazepines co-ingestion in reducing tricyclic antidepressant toxicity](#) 16 2012  
N Eizadi-Mood, AM Sabzghabae, M Saghaei, F Gheshlaghi, ...  
Medical Archives 66 (1), 49
- [The Correlation of the Difference between Ideal, before Disease and Current Body Weight with the Need to Mechanical Ventilation, the Duration of Mechanical Ventilation, the ...](#) 2011  
S Abbasi, M Saghaei, SP Shabani  
Journal of Isfahan Medical School 28 (113)
- [Analytical models and production planning trip air transportation in the country Case study: of Isfahan Beheshti International Airport](#) 1 2011  
I Ebrahimzadeh, M Saghaei, E Izadfar, N Izadfar  
URBAN-REGIONAL STUDIES AND RESEARCH (UNIVERSITY OF ISFAHAN) 3 (10), 21-24
- [ANTI-COUNTERFEITING TRADE AGREEMENT AND ITS RELATIONSHIP WITH INTERNET](#) 2011  
M SAGHAEI  
HEALTH INFORMATION MANAGEMENT 8 (218), 0-0
- [An overview of randomization and minimization programs for randomized clinical trials](#) 90 2011  
M Saghaei  
Journal of medical signals and sensors 1 (1), 55

- [Implementation of an open-source customizable minimization program for allocation of patients to parallel groups in clinical trials](#) 145 2011  
M Saghaei, S Saghaei  
Journal of Biomedical Science and Engineering 4 (11), 734-739
- [The effect of acupuncture on the acute withdrawal symptoms from rapid opiate detoxification](#) 2010  
M Saghaei, K Montazeri  
Iranian Journal of Pharmaceutical Research, 41-41
- [Comparative Evaluation of Glasgow Coma Score and Gag Reflex in Predicting Aspiration Pneumonitis in Acute Poisoning](#) 2010  
N Eizadi-Mood, M Saghaei, S Alfred, AH Zargarzadeh, C Huynh, ...  
CLINICAL TOXICOLOGY 48 (3), 249-249
- [Comparative evaluation of Glasgow Coma Score and gag reflex in predicting aspiration pneumonitis in acute poisoning](#) 35 2009  
N Eizadi-Mood, M Saghaei, S Alfred, AH Zargarzadeh, C Huynh, ...  
Journal of critical care 24 (3), 470. e9-470. e15
- [THE RELATIONSHIP BETWEEN INTRA-ABDOMINAL PRESSURE AND PERIOPERATIVE COMPLICATIONS](#) 2009  
M Saghaei, A Hoseinpanah, A Yaraghi  
ACTA CLINICA BELGICA 64 (3), 252-252
- [Effect of therapeutic touch on patients' anxiety before coronary artery bypass graft surgery](#) 23 2009  
M Moeini, Z Zare, M Hazrati, M Saghaei  
Iranian Journal of Nursing and Midwifery Research 13 (2)
- [CHALLENGES OF THE AIR TRANSPORTATION INDUSTRY IN IRAN–THE CASE OF AIR TRAFIC AT ISFAHAN INTERNATIONAL AIRPORT](#) 1 2009  
A ZARABI, J MOHAMMADI, M Saghaei  
GEOGRAPHY AND ENVIRONMENTAL PLANNING (UNIVERSITY OF ISFAHAN) 20 (133), 23-42
- [Comparative evaluation of Glasgow Coma Score and](#) 2008  
M Saghaei, YS Saad
- [Correlation of Intra Abdominal Pressure with Intra and Post Operative Anesthetic Complications](#) 2008  
M SAGHAEI, AR Hosseinpanah, A Yaraghi  
PAJOUHESH DAR PEZESHKI 32 (3), 239-246
- [Evaluation of Airway Anatomical Characteristics after Elective Surgery with Difficult Intubation](#) 2 2008  
AM JABAL, M Saghaei, AM JABERZADEH  
ZAHEDAN JOURNAL OF RESEARCH IN MEDICAL SCIENCES (TABIB-E-SHARGH) 10 (2), 115-123
- [Establishing an online editorial and publishing system: One-year experience with the Journal of Research in Medical Sciences](#) 1 2007  
M Saghaei

First Monday

[Predicting outcomes in organophosphate poisoning based on APACHE II and modified APACHE II scores](#)

[39](#) 2007

N Eizadi-Mood, M Saghaei, M Jabalameli  
Human & experimental toxicology 26 (7), 573-578

[EFFECT OF KINETIC VERSUS STATIC POSITIONING ON THE CARDIOPULMONARY INDICES DURING MECHANICAL VENTILATION](#)

2007

MF GHOLAMI, AR YAZDANNIK, KH ZERAATKARI, M SAGHAEI  
JOURNAL OF IRANIAN SOCIETY ANAESTHESIOLOGY AND INTENSIVE CARE 28 (56), 24-33

[Iran universities contribution to public knowledge: the case of submission to closed access journals](#)

[2](#) 2007

M Saghaei  
JOURNAL OF RESEARCH IN MEDICAL SCIENCES (JRMS) 12 (4), 159-160

[Effect of oral ketamine on the postoperative pain and analgesic requirement following orthopedic surgery.](#)

[20](#) 2006

SM Heidari, M Saghaei, SJ Hashemi, P Parvazinia  
Acta Anaesthesiologica Taiwanica: Official Journal of the Taiwan Society of ...

[Intravenous regional anesthesia using lidocaine and ketamine: A-490](#)

[2](#) 2006

M Rahimi, M Saghaei, M Heidari, M Haghayegh  
European Journal of Anaesthesiology (EJA) 23, 127-128

[EFFECTS OF PRONE POSITION ON CARDIAC AND PULMONARY INDICES IN PATIENTS UNDER MECHANICAL VENTILATION](#)

[2](#) 2006

AR YAZDANNIK, F GHOLAMI, KH ZERAATKARI, M SAGHAEI  
IRANIAN JOURNAL OF NURSING RESEARCH 1 (2), 15-21

[COMPARISON OF THE PREVENTIVE EFFECT OF ORAL SUCRALFATE AND INTRAVENOUS RANITIDINE ON STRESS ULCER, GASTRIC ACIDITY AND THE INCIDENCE OF PNEUMONIA IN CRITICALLY ILL PATIENTS](#)

2006

HA SOLTANINEZHAD, SJ HASHEMI, R TALAKOUB, M SAGHAEI  
JOURNAL OF IRANIAN SOCIETY ANAESTHESIOLOGY AND INTENSIVE CARE 28 (53), 4-13

[INHIBITION OF PRESSOR RESPONSE TO LARYNGOSCOPY AND TRACHEAL INTUBATION WITH PREOXYGENATION](#)

2006

R TALAKOUB, E KHALIGHI, M SAGHAEI  
JOURNAL OF ISFAHAN MEDICAL SCHOOL (IUMS) 24 (82), 73-79

[Prophylactic versus therapeutic administration of intravenous lidocaine for suppression of post-extubation cough following cataract surgery: a randomized double blind placebo ...](#)

[29](#) 2005

M Saghaei, A Reisinejad, H Soltani  
Acta Anaesthesiologica Taiwanica: Official Journal of the Taiwan Society of ...

[Clinical trial of nitroglycerin-induced controlled hypotension with or without acupoint electrical stimulation in microscopic middle ear surgery under general anesthesia with ...](#)

[22](#) 2005

M Saghaei, A Ahmadi, M Rezvani

Acta anaesthesiologica Taiwanica: official journal of the Taiwan Society of ...

[Effects of progesterone on the ventilatory performance in adult trauma patients during partial support mechanical ventilation](#)

6 2005

M Golparvar, F Ahmadi, M Saghaei

ARCHIVES OF IRANIAN MEDICINE 8 (1), 27-31

[Evaluation of relationship between arterial and venous blood gas values in the patients with tricyclic antidepressant poisoning](#)

32 2005

N Eizadi-Mood, N Moein, M Saghaei

Clinical Toxicology 43 (5), 357-360

[Random allocation software for parallel group randomized trials](#)

M Saghaei

643 2004

BMC medical research methodology 4 (1), 1-6

[Comparison of prone positioning \(PP\) and consecutive rotational therapy \(CRT\) on the cardiopulmonary indexes in patients with ARDS](#)

2004

K Zeraatkari, FG Motlagh, AR Yazdannik, M Saghaei

AUSTRALIAN CRITICAL CARE 17 (4), 172-172

[Paradoxical reaction following intravenous midazolam premedication in pediatric patients—a randomized placebo controlled trial of ketamine for rapid tranquilization](#)

115 2004

M Golparvar, M Saghaei, P Sajedi, SS Razavi

Pediatric Anesthesia 14 (11), 924-930

[Effect of intravenous midazolam premedication on postoperative nausea and vomiting after cholecystectomy.](#)

65 2004

SM Heidari, H Saryazdi, M Saghaei

Acta Anaesthesiologica Taiwanica: Official Journal of the Taiwan Society of ...

[Effect of controlled hyperventilation on the pressor response to laryngoscopy and tracheal intubation.](#)

5 2003

R Talakoub, A Khodayari, M Saghaei

Middle East Journal of Anaesthesiology 17 (3), 403-413

[Plethysmographic Waveform Variation as an Indicator to Hypovolemia: In Response](#)

M Golparvar, M Saghaei

2003

Anesthesia & Analgesia 97 (2), 602-603

[The effect of acupuncture on the acute withdrawal symptoms from rapid opiate detoxification.](#)

47 2002

K Montazeri, M Farahnakian, M Saghaei

Acta Anaesthesiologica Sinica 40 (4), 173-177

[Evaluating the relationship between arterial blood pressure changes and indices of pulse oximetric plethysmography](#)

67 2002

M Golparvar, H Naddafnia, M Saghaei

Anesthesia & Analgesia 95 (6), 1686-1690



- [Blood pressure measurement by pulse oxymetric method and comparison with conventional technique](#) 8 2002  
GR Khalili, M Saghaei, M Abedini  
Acta Anaesthesiologica Sinica 40, 3-8
- [A RANDOMIZED DOUBLE BLIND CONTROLLED TRIAL OF BLOODLETTING ACUPUNCTURE FOR THE PREVENTION OF POST EXTUBATION STRIDOR IN PEDIATRIC PATIENTS](#) 2002  
M SAGHAEI, S RAZAVI  
JOURNAL OF IRANIAN SOCIETY ANAESTHESIOLOGY AND INTENSIVE CARE 21 (3334), 13-17
- [Prediction of prolonged laryngoscopy](#) 18 2001  
M Saghaei, MR Safavi  
Anaesthesia 56 (12), 1181-1201
- [Bloodletting acupuncture for the prevention of stridor in children after tracheal extubation: a randomised, controlled study](#) 8 2001  
M Saghaei, S Razavi  
Anaesthesia 56 (10), 961-964
- [The pressor response and airway effects of cricoid pressure during induction of general anesthesia](#) 26 2001  
M Saghaei, M Masoodifar  
Anesthesia & Analgesia 93 (3), 787-790
- [NERVE BLOCKING \(PAIN CONTROL\) AFTER THORACOTOMY WITH BUPIVACAINE: EPIDURAL VS INTERCOSTAL](#) 2001  
A GHAFOURI, M SAGHAEI  
JOURNAL OF RESEARCH IN MEDICAL SCIENCES (JRMS) 6 (3), 215-218
- [Pulsus alternans during general anesthesia with halothane: effects of permissive hypercapnia](#) 12 2000  
M Saghaei, M Mortazavian  
The Journal of the American Society of Anesthesiologists 93 (1), 91-94
- [Acupuncture in the treatment of chronic urticaria](#) 1 2000  
F Iraji, M Saghaei, H Mokhtari  
IRANIAN JOURNAL OF DERMATOLOGY 4 (113), 31-35
- [HEMATOLOGIC FINDINGS IN OPERATING ROOM STAFFS](#) 2000  
H SOLTANI, M SAGHAEI  
JOURNAL OF RESEARCH IN MEDICAL SCIENCES (JRMS) 5 (1), 45-48
- [IOSR Journals-JDMS](#)  
M Saghaei, S Farsaei, H Atef
- [Journal of Nursing Practice Today](#)  
A Yazdannik, M Saghaei, S Haghghat, M Eghbali-Babadi