

Last Name: Eslami (Hassanabadi)
First Name: Saeid
E-mail address: eslamis@mums.ac.ir; s.eslami.h@gmail.com

Personal Information
Marital status: Married
Birth date: 02-05-1974/12-02-1353
Place of Birth: Mashhad, Iran

Education
Ph.D. and Research Fellow

2004-2012 Department of Medical Informatics, Faculty of Medicine, University of Amsterdam, Amsterdam, The Netherlands
Thesis title: "Pharmacotherapy and patient safety in intensive care: impact of guideline-base decision support"
Fellowship 1: Safety & quality of care in intensive care
Fellowship 2: Safety & quality of care of elderly

Pharm.D. (Doctor of Pharmacy)

1992-2000 School of Pharmacy, Mashhad University of Medical Sciences, Mashhad, IRAN
Thesis title: "Design and Programming Multimedia database of drug information for the Iranian formulary"

Technical Experience
✚ Programming with Visual Basic 6 (professional level), particularly medical and pharmaceutical applications.
✚ Database programming with Visual Basic 6 and SQL
✚ Network Design with Windows NT & Advanced Server 2000 (good level)
✚ Hardware and computer assembly (level: good)

Teaching Experience
✚ Computer applications in pharmacy (for Ph.D. students in pharmaceutical sciences), 2000-2001
✚ Informatics and Internet (for Ph.D. students in pharmaceutical sciences), 2000-2001
✚ Computer applications in pharmacy and medicine (for Pharm.D. students), 1998-2000
✚ Computer application in dentistry and medicine (for D.D.S. students), 2000
✚ Information and Internet (for Pharm.D. students), 1997-2000
✚ Evaluation of decision support application (Medical informatics students), Amsterdam, 2007-2009
✚ Supervising and co-supervising two Medical Informatics master students, Amsterdam, 2008-2009

- # Evaluation in Medical Informatics (Medical informatics Ph.D. students), Mashhad, 2011-
- # Management of Medical Informatics Projects (Medical informatics Ph.D. students), Mashhad, 2011-
- # Information and Information Sources in Medicine (Ph.D. students), Mashhad, 2012-
- # Information and Information Sources in Medicine (M.Sc. students), Mashhad, 2012-
- # Hospital Pharmacy (Pharm.D. students), Mashhad, 2012-
- # Statistics (Toxicology M.Sc. student) , Mashhad, 2012-
- # Research design and informatics (Toxicology Ph.D. students), Mashhad, 2012-
- # Computer (Toxicology Ph.D. students), Mashhad, 2012-
- # Applied projects (Medical informatics M.Sc. students), Mashhad, 2012-
- # Decision Support systems (Medical informatics M.Sc. students), Mashhad, 2012-
- # Statistics by non-mathematical approach, Workshop, Mashhad, 2012
- # Systematic review, Workshop, Mashhad, 2012
- # Supervising and co-supervising more than 10 Medical Informatics Ph.D. and Master students, 2012-
- # Supervising and co-supervising more than 5 pharmacy and medical doctorate student, 2012
- # ...

Awards

- # Third prize of the Academic Medical Center's safety projects, Amsterdam, The Netherlands, 2007
- # Honor Researcher in Medical Informatics at Mashhad University of Medical Sciences, Mashhad, IRAN, 2002
- # IT Consultant for President of Khorasan Province Food & Drug Administration, Mashhad, IRAN, 2001-2004
- # Member of Information Technology Committee of Mashhad University of Medical Sciences, Mashhad, IRAN, 2000-2004
- # Honor Student in Medical Informatics at Mashhad University of Medical Sciences, Mashhad, IRAN, 1998

Research Projects

- # Empowering pregnant woman by IT Interventions, 2012-
- # Clinical decision support system for diagnosis of patients with Non-Alcoholic Fatty Liver Disease (NAFLD), 2012-
- # Designing and evaluation of an IT-Based feedback system to change the behavior of general practitioners of Kerman province to reduce inappropriate parenteral corticosteroids prescription, 2012-
- # Designing a registry for occupational hazards in hospitals and investigating the effect of reforms in the way of informing and education on clinical staff safety, 2012-
- # Improving Care of Vulnerable Elders (ICOVE), 2009-
- # Effect of four levels of computerized decision support (from non-critiquing and patient non-specific till critiquing and patient-specific) on adherence to aminoglycoside guideline; and frequency of errors and adverse drug events, 2004-

- # Effect of two levels of decision support on antibiotics prescription - effectiveness and cost-benefit, 2004-
- # Effect of a critiquing and non-critiquing decision support system for different target groups (physicians, nurses and both) on adherence to lung protective mechanical ventilation strategy, 2005-2011
- # Effect of two levels of decision support (patient non-specific, patient specific) on adherence to guideline and glucose regulation, 2005-2011
- # Systematic literature reviews on CPOE in outpatients, CPOE in inpatients, quality indicators for glucose regulation, decision support for glucose regulation, 2004 -2012
- # Design and development of simulator software for reading prescriptions in pharmacies, 1998-2000
- # Design and Programming a Windows-based software for Iranian Outpatient- and Inpatient-Pharmacies, 1994-2004
- # Design and Programming multimedia database of drug information for the Iranian formulary, 1998
- # Design and Programming a Windows-based software for libraries of Mashhad University of Medical Sciences, Mashhad, IRAN, 1996

Courses and Workshops

- # Great Survey Design, Amsterdam, The Netherlands, July 2012
- # ATC/DDD methodology (organized by WHO), Oslo, Norway, June 2012
- # Epidemiology (organized by European Renal Association - European Dialysis and Transplant Association), Amsterdam, The Netherlands, Jan-Feb 2012
- # Better use of PubMed, Amsterdam, The Netherlands, Jan 2012
- # Statistical computing in R, Amsterdam, The Netherlands, Nov 2011
- # Longitudinal studies, Amsterdam, The Netherlands, 2010
- # Prognostic models, Amsterdam, The Netherlands, 2010
- # Introduction to Bioinformatics, Amsterdam, The Netherlands, Feb 2009
- # Erasmus summer programme, Rotterdam, The Netherlands, Aug 13-31, 2007
 - Clinical Trials
 - Regression Analysis
 - Pharmaco-epidemiology
 - The why and how of readable articles
- # Advanced Bio-statistics Amsterdam, The Netherlands, Sept 4-Oct 5, 2006
- # Practical Bio-statistics, Amsterdam, The Netherlands, Oct-Nov, 2005
- # Oral Presentation in English, Amsterdam, The Netherlands, 2005
- # Scientific Writing in English for Publication-Writing to be read, Amsterdam, The Netherlands, Oct-Dec, 2005
- # International Masterclass for Medical Informatics, Heidelberg/Heilbornn/Bad Wimpfen, Germany, July 16-20, 2005
- # Health Informatics: the role of informatics in health care- the Amsterdam International Medical Summer School, Amsterdam, The Netherlands, July 11-23, 2004
- # The Netherlands Medical Informatics Ph.D. days:
 - Utrecht, Jan, 2005
 - Maastricht, Jan, 2006

- Nijmegen, Feb, 2007
- Zeeland, March, 2008
- Amsterdam, Jan, 2009
- Zeeland, March, 2010
- Amsterdam, March 2011

**(Co-
)supervisor**

Askari M., **Investiating drug-drug interactions and preventing them by a decision support system**, Medical Informatics Master Thesis

Opondo D., **Assessing the quality of care for the elderly in general practice**. Medical Informatics Master Thesis (selected as the best Medical Informatic Master thesis in 2011 in the Netherlands)

Publications

 **ISI publications**

- 1) Askari M, Eslami S et al. **Frequency and nature of Drug-drug Interaction in the Intensive Care Unit**. *Pharmacoepidemiology & Drug Safety* 2013; *Accepted*.
- 2) Pournik O, Alavian SM, Eslami S. **Can We Accurately Assess Liver Fibrosis with Fibroscan® Using Fewer Valid Measurements?** *Yonsei Med J*; *Accepted*.
- 3) Wlodzimirow KA, Eslami S et al. **Prediction of poor outcome in patients with acute liver failure-systematic review of prediction models**. *PLoS ONE* 2012; 7(12).
- 4) Opondo D, Eslami S et al. **Inappropriateness of medication prescriptions to elderly patients in primary care: A Systematic Review**. *PLoS ONE* 2012; 7(8).
- 5) Wlodzimirow KA, Eslami S et al. **Systematic review: acute liver failure - one disease, more than 40 definitions**. *Alimentary Pharmacology & Therapeutics* 2012; 35(11):1245-56
- 6) Wlodzimirow KA, Eslami S et al. **A Systematic Review on prognostic indicators of human Acute on Chronic Liver Failure and their predictive value for mortality**. *Liver International* 2013; 33(1):40-52
- 7) Minne L, Eslami S et al. **Five years of therapeutic drug monitoring in the intensive care did not change vancomycin prescription behaviour: perceived needs for decision support**. *Minerva Anestesiologica* 2012 Jun;78(6):684-92
- 8) Wlodzimirow KA, Eslami S et al. **Acute liver failure – What is it?** *Hepatology* 2012; 55(4):1306-7.
- 9) Minne L, Eslami S et al. **Statistical process control for monitoring standardized mortality ratios of a classification tree model**. *Methods Inf. Med.* 2012;51(4):353-8
- 10) Askari M, Wierenga P, Eslami S et al. **Assessing Quality of Care of Elderly patients using the ACOVE quality indicator set: A Systematic Review** *PLoS ONE* 2011; 6(12):e2863.
- 11) Meyenaar IA, Eslami S et al. **Blood glucose amplitude variability as predictor for mortality in surgical and medical ICU patients - A multicenter cohort study**. *J Crit Care* 2012; 27(2):119-24
- 12) Eslami S et al. **Effects of two different levels of computerized decision support on blood glucose regulation in critically ill patients**. *Int J Med Inform* 2011, 81(1):53-60

- 13) Minne L, Eslami S et al. **Statistical Process Control for validating a classification tree model for predicting mortality - a novel approach towards temporal validation.** *J Biomedical Informatics* 2011; 45(1):37-44
- 14) Eslami S et al. **Evaluation of consulting and critiquing decision support systems: Effect on adherence to a lower tidal volume mechanical ventilation strategy.** *J Crit Care* 2012 Aug;27(4):425.e1-8
- 15) Askari M, Wierenga PC, Eslami S, et al. **Studies Pertaining to the ACOVE Quality Criteria: A Systematic review.** *Int J for Qual in Health Care* 2011; 24(1):80-7
- 16) Minne L, Eslami S et al. **Effect of changes over time in the performance of a customized SAPS-II model on quality of care assessment.** *Intensive Care Medicine* 2012; 38(1):40-6
- 17) Medlock S, Eslami S et al. **Improved communication in post-ICU care by improving writing of ICU discharge letters: a longitudinal before-after study.** *BMJ Quality & Safety* 2011; 20(11):967-73
- 18) Medlock S, Opondo D, Eslami S, Askari M, Wierenga P, de Rooij SE, Abu-Hanna A. **LERM (Logical Elements Rule Method): A method for assessing and formalizing clinical rules for decision support.** *Int. J of Med Inform.* 2011; 80(4):286-95.
- 19) Eslami S, Taherzadeh Z, Schultz MJ, Abu-Hanna A. **Glucose variability measures and their effect on mortality – A systematic review.** *Intensive Care Med.* 2011; 37(4):583-93.
- 20) Eslami S, Abu-Hanna A. **Acceptance of drug-drug interaction alerts and alert system design.** *Br J Clin Pharmacol.* 2010 Oct;70(4):619-20.
- 21) Eslami S, Abu-Hanna A, de Keizer NF, Bosman RJ, Spronk PE, de Jonge E, Schultz MJ. **Implementing glucose control in intensive care: a multicenter trial using statistical process control.** *Intensive Care Med.* 2010 Sep;36(9):1556-65.
- 22) Eslami S, Abu-Hanna A, de Jonge E, de Keizer NF. **Tight glycemic control and clinical decision support – A systematic review.** *Intensive Care Medicine.* 2009 Sep;35(9):1505-17.
- 23) Eslami S, de Keizer NF, de Jonge E, Schultz M, Abu-Hanna A. **A systematic review on quality indicators for tight glycaemic control in critically ill patients; the need for unambiguous indicator reference subset.** *Critical Care* 2008; 12:R139.
- 24) Eslami S, Abu-Hanna A, de Keizer NF, de Jonge E, Schultz M. **Effect of a clinical decision support system on adherence to a lower tidal volume mechanical ventilation strategy.** *Journal of Critical Care* 2009; 24(4):523-9.
- 25) Eslami S, de Keizer NF, Abu-Hanna A. **The impact of computerized physician medication order entry in hospitalized patients - A systematic review.** *Int. J of Med Inform.* 2008; 77(6):365-76.
- 26) Eslami S, Abu-Hanna A, de Keizer NF. **Evaluation of outpatient computerized physician medication order entry systems: a systematic review.** *J Am Med Inform Assoc.* 2007 Jul-Aug;14(4):400-6.
- 27) Eslami S, Abu-Hanna A, de Keizer NF, de Jonge E. **Errors associated with applying decision support by suggesting default doses for aminoglycosides.** *Drug Saf.* 2006;29(9):803-9.

Medline indexed publications

- 28) Medlock S, Eslami S et al. **The Consequences of Seniors Seeking Health Information Using the Internet and Other Sources.** *Stud Health Technol Inform.* 2013; Accepted

- 29) Medlock S, Eslami S et al. **Attitudes and Experience of Dutch General Practitioners Regarding Computerized Clinical Decision Support. Accepted.** *Stud Health Technol Inform.* 2013;186:56-60.
- 30) Askari M, Eslami S, et al. **Relevance of drug-drug interaction in the ICU - Perceptions of intensivists and pharmacists.** *Stud Health Technol Inform.* 2012;180:716-20
- 31) Medlock S, Eslami S, et al. **Application of the Logical Elements Rule Method for formalization of clinical rules: case study of ACOVE-NLI.** *Stud Health Technol Inform.* 2012;180:421-6
- 32) Abu-Hanna A, Eslami S, Schultz MJ, de Jonge E, de Keizer NF. **Analyzing effects of providing performance feedback at ward rounds on guideline adherence - the importance of feedback usage analysis and statistical control charts.** *Stud Health Technol Inform.* 2010;160:826-30.

Embase indexed publications

- 33) Medlock S, Eslami S et al. **Health information seeking behavior of elderly Internet users in the Netherlands.** *European Geriatric Medicine* 2012; 3 (pp S90-S91) (8th Congress of the European Union Geriatric Medicine Society Brussels Belgium).
- 34) Eslami S, Abu-Hanna A, de Keizer NF, de Jonge E, Schultz M. **Decision support to increase adherence to a mechanical ventilation guideline: A study protocol and first results.** *Intensive Care of Medicine* 2008; 34 (pp S78) (21st Annual Congress of the European Society of Intensive Care Medicine, ESICM Lisbon Portugal).
- 35) Eslami S., De Keizer N.F., Taherzadeh Z., Schultz M.J., Abu-Hanna A. **Tight glycaemic control and computerized decision support systems-future and challenges.** *Diabetes Technology and Therapeutics* 2011; 13 (2) (pp 182). (4th International Conference on Advanced Technologies and Treatments for Diabetes, ATTD 2011 London United Kingdom).
- 36) Eslami S., Abu-Hanna A., De Keizer N.F., De Jonge E., Dongelmans D., Schultz M.J. **Effects of two levels of computerized decision support on glucose regulation in intensive care-using statistical process control.** *Intensive Care Medicine* 2009; 35 (pp S236). (22nd Annual Congress of the European Society of Intensive Care Medicine, ESICM Vienna Austria).
- 37) Eslami S., De Keizer N.F., De Jonge E., Abu-Hanna A. **Improving medication safety in the intensive care unit by implementing computerized decision support system-using statistical process control.** *Intensive Care Medicine* 2009; 35 (pp S235). (22nd Annual Congress of the European Society of Intensive Care Medicine, ESICM Vienna Austria).
- 38) Eslami S., Abu-Hanna A., De Keizer N.F., Bosman R.J., Spronk P.E., De Jonge E., Schultz M.J. **Implementing Glucose regulation guidelines in intensive care - A multicenter trial using statistical process control.** *Basic and Clinical Pharmacology and Toxicology* 2009; 105 (pp 33-34). (9th Congress of the European Association for Clinical Pharmacology and Therapeutics Edinburgh United Kingdom).

Other publications


- 39) Eslami S et al. **Lessons learned from implimentating and evaluating computerized decision support systems.** *Lecture Notes in Artificial Intelligence* 2011; 6747:101-108
- 40) Medlock S, Eslamia S, Askaria M, de Rooijb S, Abu-Hanna A. **Improving Care Of Vulnerable Elders (ICOVE): the road from quality indicators to**

quality improvement. *VMBI Yearbook 2010.*

- 41) Eslami S, de Keizer NF, Schultz MJ, de Jonge E, Abu-Hanna A. **Pharmacotherapy and patient safety in intensive care-Impact of guideline-based decision support.** *VMBI Yearbook 2009; 17-21.*
- 42) Eslami S. (2009) **Pharmacotherapy and patient safety in intensive care-Impact of guideline-based decision support.** Amsterdam: Ponsen & Looije.

 **Submitted and ready to submit manuscripts**

- 43) Amenability of ACOVE quality indicators for automatic evaluation in general practice care in the Netherlands
- 44) Concomitant administration of proton-pump inhibitors for the prevention of NSAID-related gastrointestinal ulceration in the elderly: a systematic review
- 45) A Systematic review on prognostic indicators of Acute Liver Failure and their predictive value for mortality
- 46) Fall related Information seeking behavior of the elderly patient at risk of falls
- 47) Prediction of poor outcome in patients with acute liver failure-Systematic review of prediction models
- 48) The association between blood glucose variability and hospital mortality is dependent on the blood glucose control guideline in use
- 49) Association between medication and the increase risk of falls in frequent fallers
- 50) From assessing to improvement – Protocol of a randomized control trial using ACOVE quality indicators to improve quality of elderly care in outpatient setting
- 51) Calculating the time-to-benefit for preventive drugs with the Statistical Process Control method: an example with bisphosphonates
- 52) A multi-center study on end-of-life decision-making in the Intensive Care: Differences between physicians' perceptions and clinical practice
- 53) Improving stroke prevention in atrial fibrillation – Protocol of A RCT study
- 54) Impact of half-life definitions between drug administration times on frequency of DDIs - A novel step toward detecting relevant DDIs
- 55) Influence of electronic medical record systems on physicians response to drug safety warnings
- 56) Three or more valid measurements for assessing liver fibrosis using FibroScan® in Patients with Chronic Viral Hepatitis
- 57) Feasibility of automatic evaluation of quality of care based on quality indicators in general practice
- 58) For which tasks do doctors want decision support, and why? A survey of Dutch general practitioners.
- 59) Glutathione-S-transferase M1 and T1 null genotypes are associated with hypertension risk: A systematic review and meta-analysis
- 60) ...

-  Prognostic models for benchmarking-adaptation and implementation. 3rd Conference on Health Tourism in Islamic Countries, Mashhad, December 2012

- ✚ Web-site Evaluation Tools: Reproductive Health Information. 13th International Congress of Gynecology & Obstetrics, Tehran, December 2012 (co-author)
- ✚ Eight Years' Experience in Designing, Implementation and Evaluation of Computerized Decision Support Systems in the Netherlands – Futures and Challenges; and Lessons Learned for Iran, 1st International Conference on Electronic Health, Tehran, November 2012
- ✚ Lessons learned from designing, implementing and evaluating decision support system, 1st Seminar on Intelligent Laboratory, Tehran, November 2012
- ✚ Met Statistical Process Control (SPC) kan de time-to-benefit van preventieve medicatie gemakkelijk en inzichtelijk bepaald worden. Een voorbeeld met alendronaat. (in Dutch, co-author)
- ✚ Health information seeking behavior of elderly internet users in the Netherlands, EUGMS, Brussels, Sept 2012 (co-author)
- ✚ Fall-related information seeking behavior among elderly internet-users 21st Nordic Congress of Gerontology - Dilemmas in Ageing Societies, Copenhagen, June 2012 (co-author)
- ✚ Lessons learned from implimentating and evaluating computerized decision support systems, Artificial Intelligence in Medicine (AIME), Bled, 2011
- ✚ ??, International Forum on Quality and Safety in Health Care, Amsterdam, 2010 (co-author)
- ✚ Tight Glycaemic Control and Computerized Decision Support Systems – future and challenges (invited speaker), Advanced Technologies & Treatments for Diabetes (ATTD), London, 2011
- ✚ Implementing Glucose Regulation guidelines in Intensive Care – A Multicenter trial Using Statistical Process Control, The 9th Congress of the European Association for Clinical Pharmacology and Therapeutics, Edinburgh, 2009
- ✚ Critiquing vs. non-critiquing decision support: Effect on adherence to a lung-protective mechanical ventilation protocol, 10th Congress of WFSICCM, Florence, 2009
- ✚ Effects of two levels of computerized decision support on glucose regulation in intensive care –Using statistical process control, European association of Intensive Care Medicine (ESICM), Vienna, 2009
- ✚ Improving medication safety in the intensive care unit by implementing computerized decision support system- Using statistical process control, European association of Intensive Care Medicine (ESICM), Vienna, 2009
- ✚ Decision support to increase adherence to a mechanical ventilation guideline: a study protocol and first results, European association of Intensive Care Medicine (ESICM), Lisbon, 2008
- ✚ Can Default Dose Introduce New Source of Errors, International Forum on Quality and Safety in Health Care, Barcelona, 2007
- ✚ Multimedia Database of Iranian Drugs Interactions, 16th Iranian Congress of Physiology & Pharmacology, Tehran, 2003
- ✚ Simulator software for prescription reading in pharmacies, 8th Iranian Pharmaceutical Sciences Seminar, Shiraz, 2002
- ✚ Reform of drug distribution in hospitals with computer, 1th Food and Drug Usage Seminar, Sari, 2000

- # Multimedia searcher for pharmaceutical and toxic agents in Iran, 6th Iranian Toxicology and Drug Poisoning Congress , Ahvaz, 1999
- # Lecturer in various continuing education courses for Iranian pharmacists, topics include computer applications in pharmacy, 1999-2004
- # Multimedia database of drug information in Iranian formulary, 5th Iranian Pharm.D. Student Seminar, Tehran, 1999
- # Education Technology in Iran, 5th Iranian Pharm.D. Student Seminar, Tehran, 1999
- # Multimedia database of Iranian medicinal plants, 1th Medicinal Plant and Industry, Tehran, 1997
- # Antimicrobial activity of Iranian plant (Khorasan province), 3th Iranian Pharm.D. Student Seminar, Tehran, 1996
- # Library management software, 2th Iranian Pharm.D. Student Seminar, Mashhad, 1995
- # Anti HIV drug advice, 1th Iranian Pharm.D. Student Seminar, Tabriz, 1994
- # Design of Iranian plant systematic poster, 1th Iranian Pharm.D. Student Seminar, Tabriz, 1994

- # Dutch Association of Medical Informatics, 2008-

Membership