

# Curriculum Vitae

## *Personal Information*

- Name: Salahdein Modhammed AbuRuz
- Martial state: Married with three children
- Date of Birth: April 16th, 1977
- Age: 35
- Phone number: 00962777635237
- Email: aburuz@yahoo.com

## *Education*

- High School, Jordan AlEthad School, 1995. GPA: 96.5%.
- BSc. Pharmacy, University of Jordan, June 2000. *Third on Class*
- PhD in Clinical Pharmacy and Pharmacotherapy; School of Pharmacy, Queen's University, The United Kingdom, 2003.
- PhD Thesis Subject: Clinical Pharmacy, Pharmaceutical Care and Therapeutics
- PhD Thesis Title: Investigating Factors Affecting Disease Control and Adherence to Medications in Patients with Chronic diseases.
- Postdoctoral Research Fellowship in Clinical Pharmacy and clinical research at the Clinical and Practice Unit, Queens University Belfast (January – September 2003).

## *Clinical Training (Practice and Research)*

- 3 years of training and research at the Respiratory Regional Centre Belfast/UK as part of my PhD and Postdoctoral Fellowship (2000-2003)
- 3 years of training and research at the Diabetes Clinic/WhiteAbbey Hospital/Belfast UK as part of my PhD and Postdoctoral Fellowship (2000-2003)
- 9 years as Internal Medicine Clinical Instructor (mainly Cardiology, Respiratory, and Rheumatology) at the University of Jordan Hospital (for Master , PharmD and Bachelor students)
- 2 years as internal medicine clinical pharmacy specialist at the Department of Pharmaceutical Care, University of Jordan hospital

## *Current positions*

- Professor of Clinical Pharmacy and Pharmacotherapy/ University of Jordan, August 2012-current.
- Head-Department of Clinical Pharmacy/Faculty of Pharmacy/University of Jordan 2011-current

### ***Professional Membership***

- Editorial Board Member in Clinical Medicine-Geriatrics, 2007-current.
- IRB member, Triumpharma Drug Research Company
- Member/Jordan Pharmaceutical Association
- Member/Pharmaceutical Care Network of Europe (PCNE).

### ***Past Positions and Activities***

- Associate Professor of Clinical Pharmacy and Pharmacotherapy/ University of Jordan, June 2008-current.
- Assistant Professor of Clinical Pharmacy and Pharmacotherapy, Department of Clinical Pharmacy, University of Jordan, 2003-2008.
- Assistant Dean, Deanship of Academic Research. 2005-2006.
- Assistant Dean for Hospital Training and PharmD Program/ Faculty of Pharmacy/University of Jordan, 2006-2010.
- Director of Pharmaceutical Care Division/University of Jordan Hospital, 2008-2010.
- Statistics and research consultant for Pfizer-Jordan
- Statistics and research consultant for Novartis -Jordan
- Consultant Editor in the Jordanian Drug Digest Journal. 2003-2005.
- Head/Department of Clinical Pharmacy Applied Science University, 2010-2011
- Reviewer of several national and international journals.

### ***Scholarships, Awards***

- Institute of Higher Education Scholarship for the Top undergraduate students at the University of Jordan, 1995-2000.
- A two month scholarship to have training course in Copenhagen/Denmark on gas chromatography, 1999.
- Al-Hikma Pharmaceuticals Award for the Top undergraduate pharmacy students, 2000.
- A 5-year scholarship from the University of Jordan to pursue PhD degree, 2000 (for being of the top 3 students).
- Excellence oral presentation prize in clinical Sciences/Hospital Practice received at Queen's / Trinity joint conference held at Queen's University in March, 2002.
- Distinguished Scientist award at the University of Jordan for year 2008/2009.
- Distinguished Scientist award at the University of Jordan for year 2009/2010.
- Distinguished Scientist award at the University of Jordan for year 2010/2011.

- Best scientific researchers award at the Applied Science University for year 2010/2011 (during Sabbatical Leave).

### ***Distinguished Academic and Professional Achievements***

- High School (Tawjehi) score of 96.5% (1995).
- Graduated from School of Pharmacy/University of Jordan in 2000 and was third on class
- In June 2008, I have published double the number of papers (and number of points) required to be promoted to the rank of Associate Professor and was granted earlier promotion.
- In 2012, I have published double the number of papers (and number of points) required to be promoted to the rank of Professor and was granted earlier promotion.
- In 2006-2007, I have conducted the first randomized controlled trial in Jordan to prove the importance and impact of clinical pharmacy (a prospective RCT to investigate the impact of clinical pharmacist on reducing DRPs in hospitalized patients).
- I was one of the professors who developed and established the PharmD and Master of Clinical Pharmacy Programmes at Jordan University in 2004.
- I have developed and directed the pharmaceutical care unit at the university of Jordan Hospital. I was the head of this department from 2008 till 2010.
- Member of the Jordanian Clinical Pharmacy Committee/Ministry of Health that established the current job description for clinical pharmacist in Jordan (2006).
- I have established and directed department of pharmaceutical care at Ibnalhaythem Hospital in 2010.
- Member in Pharmaceutical Care Network of Europe (PCNE)

### ***Other Training Experience***

- 1400 hours of training sessions in different community pharmacies and hospitals in Jordan, 1998-2000.
- 2 months working on gas chromatography at Prince company/Copenhagen (Determination of methanol in tobacco using Gas Chromatography), 1999.
- 1 month work training at Almotaheda drug manufacture Amman/Jordan (Production department), 2000.
- 3 years of level one undergraduate student teaching at Queen's University, Belfast, UK, 2000-2002.
- 3 years experience in clinical research at the asthma clinic in Belfast City Hospital (2000-2003).
- 3 years experience clinical research at the diabetes clinic in Whiteabby Hospital (2000-2003).
- 9 months Postdoctoral Fellowship at Queen's University Belfast in clinical research field, 2003.
- Good Clinical Practice Workshop, Jordan Food and Drug Administration, 2004.
- IRB responsibilities workshop, JFDA, 2006

- Clinical Investigation workshop , JFDA 2011 (Certified JFDA investigators workshop)

#### ***Committee membership***

- Drug and therapeutic Committee/ Jordan University Hospital, 2005-2008.
- Member in the Faculty of Pharmacy Counsel /University of Jordan, 2006.
- Member in Faculty of Pharmacy Counsel /University of Jordan, 2011 and 2012.
- Member in Faculty of Pharmacy Counsel /Applied Science University, 2010.
- Master of clinical pharmacy comprehensive exam committee University of Jordan, 2006-2011.
- Scientific committee, University of Jordan, 2003-2010
- Scientific committee, Applied Science University, 2010-2011
- Head of student affair committee, Applied Science University, 2011.
- Unitender drug procurement evaluation committee, 2010.
- Curriculum committee, Applied Science University, 2010.
- Clinical Pharmacy Residency Comprehensive exam committee/Royal medical services, 2010 and 2012.
- IRB member, University of Jordan Hospital, 2009.
- Member of the Jordan FDA Clinical and Drug Research Committee. 2004-2006.
- Member of the Jordanian Pharmaceutical Association conference Scientific Committee, 2005.
- Member of Jordan FDA drug registration Technical Committee, 2007-2010.
- Therapeutic alternative committee /Ministry of Health, 2011.
- Member of the Jordanian Clinical Pharmacy Committee/Ministry of Health that established the current job description for clinical pharmacist in Jordan (2006).
- PharmD and BSc program accreditation committee/higher council for education in Jordan, 2011.
- Curriculum committee for Master of clinical pharmacy new curriculum, 2009/University of Jordan
- Curriculum committee, University of Jordan, 2011 for reviewing PharmD and BSc programs.
- Third international Pharmacy Conference Higher committee/University of Jordan 2012.

#### ***Peer reviewing***

During the past five years, I have reviewed more than 100 papers for the following journals

1. International Journal of Pharmacy Practice
2. International Journal of Clinical Pharmacy
3. Research in Social and Administrative Pharmacy
4. Current drug safety

5. American Journal of Pharmacy Education
6. Respirology
7. Medical Principles and Practice
8. Damascus University Journal for Medical Sciences:
9. Journal of the Islamic University of Gaza for Medical Sciences:
10. International Journal of COPD
11. Pulmonary Pharmacology and Therapeutics
12. Oman Medical Journal
13. Thorax
14. Annals of Saudi Medicine
15. BMC Psychiatry
16. Health and Quality of Life Outcomes
17. Jordanian Journal of Pharmaceutical Sciences
18. Jordanian journal of biological sciences
19. Journal of Chromatography B
20. Journal of Chromatography A
21. Journal of Pharmaceutical and Biomedical analysis
22. Journal of Biophysical and Biochemical methods

### ***Computer and Other Skills***

- Advanced and professional skills in Clinical Research Design and Medical Statistical Analysis.
- Advanced skills in using statistical software including SPSS and SYSTAT.
- Advanced Skills in Evidence based medicine and literature evaluation
- Professional skills in Office applications (UJCDL Certificate, 2005).

### ***Teaching and Training Experience***

Have taught the following courses for the Bachelor, PharmD and Master of clinical pharmacy students

- Pharmacology
- Pharmacotherapy 1, 2, 3, and 4 (Bachelor and PharmD)
- Advanced Pharmacology and Pharmacotherapy 1, 2 and 3 (Master degree) (Course Coordinator)
- Pharmaceutical Care (Undergraduate, Pharm. D and Master degree) (Course Coordinator)
- Clinical Pharmacy Practice Clerkships (Undergraduate, Pharm. D and Master degree)
- Clinical Pharmacy Respiratory Speciality Training (Pharm. D and Master degree)

- Clinical Pharmacy Cardiovascular Speciality Training(Pharm. D and Master degree)
- Research Methods (Pharm. D, Master Degree, PhD)
- Statistics (PhD)
- Medical terminology
- Evidence Based Practice (Pharm. D and Master Degree)
- Clinical Pharmacy and Therapeutics (Applied Science University, Amman, Jordan)
- OTC

### ***Courses and Workshops Attended***

- Gas Chromatography at Prince Company/Copenhagen, 1999.
- IELTS EXAM (Summer 2000) 7/9.
- Research Methods: Queen's University Belfast, 2000.
- SPSS: Queen's University Belfast, 2000.
- Training of the Trainee course: The University of Jordan, 2003.
- Multimedia course: The University of Jordan, 2004.
- Good Clinical Practice, Workshop, Jordan Food and Drug Administration, 2004.
- Rational Drug Use Workshop, Jordan Food and Drug Administration, 2004.
- UJCDL Certificate, 2005.
- Mass Spectrometry, Strathclyde University, 2005.
- Therapeutic Drug Monitoring Workshop, Duphat Conference, Dubai, 2005.
- Improving Patient care through pharmacist workshop, JFDA, Amman, 2005.
- Pharmaceutical Care Workshop, Faculty of Pharmacy, University of Jordan, 2005.
- IRB responsibilities workshop, JFDA, 2006.
- International social pharmacy workshop, 2010.
- Clinical Investigation workshop, JFDA 2011 (Certified JFDA investigators workshop).
- Faculty of pharmacy/University of Jordan Scientific day, 2011.

### ***Conferences participation (presentations and posters)***

- Oral presentation at Health Services and Pharmacy Practice Conference 11/12 April, Leeds, 2002 (Medication adherence in patients with asthma).
- Oral presentation at Queen's / Trinity joint conference held at Queen's University in March, 2002 (Medication adherence in patients with asthma).
- Oral presentation at the science section of the British Pharmaceutical Conference, September, Manchester/ UK 2002 (Development of a solid phase extraction (SPE) method using HLB cartridges for rapid, simultaneous HPLC determination of prednisolone and cortisol in plasma and urine).

- Poster discussion session at the practice research section of the British Pharmaceutical Conference; September, Manchester/ UK 2002 (Factors affecting self-care activities, postprandial plasma glucose and HbA<sub>1c</sub> in patients with type 2 diabetes).
- Oral presentation at the North/South Pharmacy Healthcare Conference Dundalk, Ireland, November 2002 (Factors affecting self-care activities, postprandial plasma glucose and HbA<sub>1c</sub> in patients with type 2 diabetes)
- Oral presentation at the British Thoracic Society conference, London-December 2002 “relationship between adherence to prescribed regimens and asthma control in patients with difficult asthma”.
- Oral presentation at the Health Service Conference, 2003 "Anxiety and depression are determinants of current and future symptom control in patients with difficult asthma".
- DUPHAT International Conference, Dubai, March 2005 (attendance).
- Oral presentation at the European Society of Clinical Pharmacy Conference, ESCP, 2007. (A prospective RCT to investigate the impact of clinical pharmacist on reducing DRPs in hospitalized patients).
- International pharmacy practice conference/Syria (oral presentation: a prospective RCT to investigate the impact of clinical pharmacist on reducing DRPs in hospitalized patients), 2007.
- Royal Medical Services Conference, 2008/Moderator
- JFDA Bioequivalence conference, 2008/ Moderator.
- International Social Pharmacy Workshop, 2010, oral presentation, (Comprehensive prospective assessment for treatment related problems in hospitalized internal medicine patients).
- PCNE General assembly meeting, 2010, oral presentation (Pharmaceutical Care in Jordan).

### ***Lectures and Workshops that I have presented***

- Introduction to Pharmaceutical Care. Pharmaceutical Care Workshop, Faculty of Pharmacy, University of Jordan, September, 2005.
- Design and type of clinical trials Workshop. JFDA Scientific day: March, 2006.
- Evidence Based Pharmaceutical Care Workshop. Clinical Pharmacy Scientific day. Alzaytoneh University. May, 2007.
- Clinical Pharmacy Teaching in Jordan. International Pharmacy Practice Conference/ Syria, 2007.
- Clinical Pharmacy Teaching in Jordan, Arab Association of Pharmacy Schools Conference, Jordan, 2008.
- Research methods and Evidence Based Medicine Workshop, Novartis, Dubai, 2008

- Research methods and Evidence Based Medicine Workshop, Novartis, Syria, 2008
- Research methods and Evidence Based Medicine Workshop, Novartis, Cairo, 2009
- Research methods and Evidence Based Medicine Workshop, Novartis, SA, 2009
- Interactive Patient Counselling, Jordan Pharmaceutical Association, 2009.
- Pharmaceutical Care Practice and Research in Jordan. Faculty of Pharmacy Scientific day. University of Jordan May 2009.
- JFDA Bioequivalence conference, 2009. Bioequivalence of generic Insulin products.
- Evidence based pharmaceutical care workshop, Royal medical services, 2010,
- The 6s approach to evidence based medicine, clinical pharmacy workshop JUST, April, 2011.
- GCP. FDA Clinical Investigation Workshop, June, 2011.
- Randomised Controlled Clinical Trials. Triumpharma, 2011.
- Drug related Problems identification and analysis, Jordan Pharmaceutical Association, 2011.
- Introduction to Pharmaceutical Care, Ministry of Health 2012

### *Research Interest*

- **General description:** The Main aims of my researches and practice are to promote evidence based medication use and prescribing with the goal of improving disease control and health related quality of life of patients with chronic diseases. To achieve these aims, I am currently involved in several clinical and pharmaceutical care researches in cardiovascular, nephrology, and other internal medicine related disorders.
- **Research interest:** Clinical pharmacy, clinical trials of effectiveness and risk, pharmacokinetics, evidence based medicine, quality of life and pharmaceutical care research with special interest in respiratory, diabetes, and cardiovascular diseases.
- Research Line includes:
  1. Investigating and promoting rational drug use and evidence based medicine
    - Investigating drug use in specific diseases including diabetes, hypertension and coronary artery diseases
    - Investigation physician adherence to treatment guidelines
    - Investigating treatment related problems
    - Investigating use and overuse of certain medications including proton pump inhibitors, NSAIDs and H2 Blockers
    - Randomised controlled trials and cross-sectional trials aiming at comparing the efficacy of certain medications.



2. Investigating and promoting Pharmaceutical Care: establishing pharmaceutical care is very important to help in promoting rational drug use and reducing treatment related problems. Currently, I am conducting several researches to help in establishing pharmaceutical care in Jordan; these include:  
Pharmaceutical care programme for internal medicine patients, Pharmaceutical care programme for paediatric patients, Pharmaceutical care programme for patients with rheumatoid arthritis, willingness to pay for pharmaceutical care, physicians and pharmacist attitude toward pharmaceutical care.
3. Instruments and questionnaire development: Most of the clinical and pharmaceutical care researches require the use of validated questionnaires to measure clinical variable or outcomes; unfortunately there are very few published questionnaires in Arabic language which is a major obstacle for clinical research. Therefore I am currently conducting several studies aiming at developing, validating and translating questionnaires for clinical use. These includes: adherence to medications questionnaire, SF-36 questionnaire, EQ-5D, asthma control questionnaire, allergic rhinitis control questionnaire, self care activities questionnaire and allergic rhinitis quality of life questionnaire.
4. Therapeutic drug monitoring and Adherence to medications: Investigating adherence to medications is a very important part of pharmaceutical care. Currently I am conducting several research related to adherence to medications: adherence to medications in patients with chronic diseases and blood spot analysis that will help in easy determination of drug to role out poor adherence before increasing dose or adding another drug after therapeutic failure or poor disease control.
5. Clinical trials: Generic Vs Brand antihistamines for allergic rhinitis
6. Pharmacokinetic studies
7. Disease state investigation: Currently I an involved in an in-depth investigation of allergic rhinitis in Jordan including prevalence, control, allergen sensitization and management. A similar study on Hypertension is also being conducted
8. Other health related research

### ***Researches and Funds***

- The rational use of drugs in Jordan: Funded by the University of Jordan (7000 \$).
- Metformin blood spot analysis: Funded by the University of Jordan (14000\$).
- Pharmaceutical Care programme at the University of Jordan Hospital: Funded by the University of Jordan (7000\$).
- A randomised controlled trial to find out the most effective, safest and cost effective intranasal steroid available in the local market in Jordan: Funded by the University of Jordan (30000\$).

- Investigating treatment related problems, lung function and quality of life in asthmatics: in collaboration with Regional Respiratory Centre/ Belfast/UK
- Self care activities in patients with diabetes in Jordan
- Development of the Arabic version of the medication adherence and quality of life questionnaires
- Development of questionnaire to measure disease control and quality of life in patients with allergic rhinitis
- Antiepileptic medications blood spot analysis: Funded by the University of Jordan (10000\$).
- Evaluation of Pharmaceutical Care programme in renal failure patients (15000\$, funded by Alzaytoneh University).
- Evaluation of Pharmaceutical Care programme in paediatric patients
- Evaluation of Pharmaceutical Care programme in patients with asthma
- Evaluation of Pharmaceutical Care programme in patients with Rheumatoid arthritis
- Physician, Pharmacists and Patients attitude toward pharmaceutical care
- Translation and validation of the Fibromyalgia impact questionnaire/ Funded by the University of Jordan (10000\$).

### *Publications (full length papers)*

- **Aburuz S.**, Millership J., Heaney L., McElnay J. (2003) A simple HPLC method for the rapid simultaneous determination of prednisolone and cortisol in plasma and urine using HLB solid phase extraction Cartridges. *Journal of Chromatography B*, 798:193–201.
- **S. AbuRuz**, J. Millership, J. McElnay. (2003) Determination of metformin in plasma using a new ion pair solid phase extraction and ion pair HPLC. *Journal of Chromatography B*, 798:203–209.
- **S. AbuRuz**, J. Millership, J. McElnay. (2005) The development and validation of HPLC method for the simultaneous determination of metformin and glipizide, gliclazide, glibenclamide or glimiperide in plasma. *Journal of Chromatography B*, 817:277–286.
- **Aburuz S.**, McElnay J. , Millership J. , Gamble J. Heaney L. (2005) Relationship between airway obstruction and symptom control in patients with difficult asthma. *Journal of Asthma*, 42:859-864.
- **Aburuz S.**, Millership J., McElnay J. (2006) Dried blood spot liquid chromatography assay for therapeutic drug monitoring of metformin. *Journal of Chromatography B*, 832:202-207.
- **AbuRuz S.**, Bulatova N., Yousef A. (2006) Validation of a comprehensive classification tool for treatment-related problems. *Pharmacy World and Science*, 28:222-232.
- Bulatova N., Yousef A., **Aburuz S.** (2007) Antiplatelet therapy for primary and secondary prevention in Jordanian patients with diabetes mellitus. *Thrombosis Research*, 121:43-50.

- **AbuRuz S.**, Heaney L., Millership J., Gamble J., McElnay J. (2007) A cross-sectional study evaluating the relationship between cortisol suppression and asthma control in patients with difficult asthma. *British Journal of Clinical Pharmacology*, 63:110-105.
- **AbuRuz S.**, Gamble J., Heaney L. (2007) Assessment of impairment in health-related quality of life in patients with difficult asthma: psychometric performance of the Asthma Quality of Life Questionnaire. *Respirology*, 12:227-233.
- Boulatova N., **AbuRuz S.** (2007) An innovative pharmaceutical care practical course. *Advances in Health Science Education: Theory and Practice*. 12:211-222.
- Al-Ghazawi M., Tutunji M., **Aburuz S.** (2007) Simultaneous determination of sildenafil and N-desmethyl sildenafil in human plasma by high-performance liquid chromatography method using electrochemical detection with application to a pharmacokinetic study. *Journal of Pharmaceutical and Biomedical Analysis*, 43:613-618.
- Yousef A., Bulatova N., **AbuRuz S.** (2008) Management of Coronary Artery Disease in Jordan: Cross-Sectional Comparative Study. *Jordan Journal of Pharmaceutical Sciences*, 1:1-10. <http://dar.ju.edu.jo/jjps/jjps-v1n1.html>
- **AbuRuz S.** Evidence Based pharmaceutical care: need to be well defined and systematically practiced. In Press. (2009) *Research in Social and administrative Pharmacy*.
- **Salah Aburuz**, Naela Bulatova, Mohammed Twalbeh, Moatasem Gazawi. (2009) The validity and reliability of the Arabic version of the EQ-5D: a study from Jordan. *Ann Saudi Med*, 29(4):304-8.
- **Salah M. AbuRuz**, Naela R Bulatova, Mohammed I Tawalbeh. (2009) Development and validation of the Arabic allergic rhinitis quality of life questionnaire. *Saudi Med J*, 30(12):1577-83.
- Mutasim A. Al-Ghazawi, Maha S. Tutunji , **Salah M AbuRuz**. (2010) The effects of pummelo juice on pharmacokinetics of sildenafil in healthy adult male Jordanian volunteers. *Eur J Clin Pharmacol*, 66(2):159-63.
- Mutasim Al-Ghazawi, **Salah AbuRuz** (2010) Determination of Ciprofloxacin in Dried Blood Spots for Therapeutic Drug Monitoring. *Chromatographia*, 71: 999-1006.
- **Salah AbuRuz**, Mutasim Al-Ghazawi, Yousef Al-Hiari (2010) A Simple Dried Blood Spot Assay for Therapeutic Drug Monitoring of Lamotrigine. *Chromatographia*, 71:1093-1100.
- **Salah M Aburuz**, Naela R Bulatova , Al-Moatasem M. Yousef, Mutasim A. Al-Ghazawi, Izzat A. Alawwa, Akram Al-Saleh. (2011) Comprehensive assessment of treatment related problems in hospitalized internal medicine patients. *International Journal of Clinical Pharmacy*, 33:501-511.
- S.I. Alazzam, K.H. Alzaubi, L.T. AL-Hambouth, F. Almahasneh, **S.M. AbuRuz** (2011) No correlation exists between vitamin B12 and quality of life in healthy young adult population. *Eur Rev Med Pharmacol Sci*, 10:1176-1181.
- Mohammed Tawalbeh, Naela Bulatova, **Salah Aburuz**. (2011) Investigation of the impact of aeroallergens sensitization on allergic rhinitis severity. *J Med J*, 45:18- 28.

- **S. Aburuz**, N. Bulatova, M. Tawalbeh. (2011) Skin prick test reactivity to aeroallergens in Jordanian allergic rhinitis patients. *East Mediterr Health J*, 17:604-610.
- **Salah AbuRuz**, Moatasem Al-Ghazawi, Ann Snyder. (2011) Pharmaceutical Care in community- based practice setting in Jordan: where are we now with our attitudes and perceived barriers. In Press. *International Journal of Pharmacy Practice*. 2011
- **Salah M Aburuz**, Mutasim A. Al-Ghazawi, Naela R Bulatova , Anan S. Jarab, Izzat A. Alawwa, Akram Al-Saleh (2012) Expectations and experiences of physicians regarding pharmaceutical care and the expanding role of pharmacists in Jordan. *Jordan Journal of Pharmaceutical Sciences*, 4: 74-86.
- M. Al-Ghazawi, T. Aburjai, N. Shraim, A. Bani-Jaber, **S. AbuRuz (2012)** Effect of Licorice extract on the Pharmacokinetics of ciprofloxacin in Rabbits after oral administration using an improved high-performance liquid chromatography assay. Accepted. *Jordan Journal of Pharmaceutical Sciences*.
- Alsaleh S, Bashiti E, **AbuRuz S**. Comparing prevalence of Methicillin-resistant *Staphylococcus aureus* (MRSA) over the years 2008 to 2010 at a local hospital in Amman, Jordan. Accepted. *Scientific Journal of Applied Science University*.
- I. Basheti, E. Qunaibi, N. Bulatova, S. Samara and S. AbuRuz. (2011) Exploring the need and feasibility for conducting Medication Management Review by community pharmacists in Jordan. *International Journal of Pharmacy Practice*, 19 (Suppl. 2): 33–37.

#### *Publications (Abstracts at International Conferences)*

- Aburuz S., McElnay J., Millership J., Heaney L., Gamble J. (2002) Adherence to prescribed regimens of oral and inhaled steroids by patients with difficult to control asthma (Health services and Pharmacy practice Conference 11/12 April Leeds 2002). [http://hsrpp.org.uk/abstracts/2002\\_19.shtml](http://hsrpp.org.uk/abstracts/2002_19.shtml)
- S.M. Aburuz, J.C. McElnay, J.S. Millership, W.J. Andrews and S. Smyth (2002) Factors affecting plasma glucose, HbA<sub>1c</sub> and self-care activities in patients with diabetes. *International Journal of Pharmacy Practice*, 10 (supplement): R 96.
- Aburuz S., McElnay J. , Millership J. , Gamble J. and Heaney L. (2002) Relationship between adherence to prescribed regimens and asthma control in patients with difficult asthma. *Thorax*. 57 (supplement 3). iii89
- Aburuz S., Heaney L., Millership J. , McElnay J. (2003) Anxiety and depression are determinants of current and future symptom control in patients with difficult asthma. (Health services and Pharmacy practice Conference 14/15 April belfast 2003). [http://hsrpp.org.uk/abstracts/2003\\_12.shtml](http://hsrpp.org.uk/abstracts/2003_12.shtml)
- S.M. Aburuz, J.S. Millership, J.C. McElnay (2002) Development of a solid phase extraction (SPE) method using HLB cartridges for rapid, simultaneous HPLC determination of prednisolone and cortisol in plasma and urine. *Journal of Pharmacy and Pharmacology* 54 Supplement (article 10).
- Aburuz S. Pharmaceutical care and drug related problems in hospitalized internal medicine patients: A Randomized controlled trial. ESCP 36th European Symposium on Clinical Pharmacy'Implementing Clinical Pharmacy

in Community and Hospital Settings: Sharing the Experience', Istanbul, Turkey. Pharm World Sci (2008) 30:649–740.

- Salah M Aburuz, Naela R Bulatova, Al- Moatasem M Yousef, Moatasem A Al- Ghazawi. Comprehensive prospective assessment for treatment related problems in hospitalized internal medicine patients. Pharmacy Practice. 2010; 8 (suppl 1): 106.

### **Other Publications**

1. AbuRuz S., Bulatova N., Yousef A. Pharmaceutical Care Training Manual, 2005.
2. AbuRuz S., Bulatova N., Yousef A. Pharmaceutical Care Practice manual, 2005.
3. Aburuz S. Pharmaceutical Care Electronic Documentation System, 2009.
4. AbuRuz S. Protocol for establishing pharmaceutical care services. 2009.
5. Good Pharmacy Practice. Jordan Pharmaceutical Association, 2008.
6. A study to evaluate the Joint Tender at the Ministry of Health. 2009.

### **Master of Clinical Pharmacy Thesis Supervision**

1. Principal supervisor for: Rana Abu Farha. Factors affecting blood pressure in patients with hypertension: focus on drug related problems, July, 2007.
2. Principal supervisor for: Khawla AbuHamour. A prospective randomised controlled trial to investigate the impact of pharmaceutical care on drug related problems in hospitalised internal medicine patients July, 2007.
3. Principal supervisor for: Dena Jarar. A prospective randomised controlled trial to investigate the impact of pharmaceutical care on outpatients with Rheumatoid Arthritis, November, 2008.
4. Principal supervisor for: Lina Alsakran. A prospective randomised controlled trial to investigate the impact of pharmaceutical care on drug related problems in hospitalised paediatric patients. May, 2009.
5. Principal supervisor for: Rola Quteshat. Factors affecting disease control and quality of life in patients with diabetes, 2009.
6. Principal supervisor for: Noor Batarseh. Factors affecting disease control and quality of life in patients with asthma: focus on drug related problems, 2009.
7. Principal supervisor for: Odeet Tadros. Evaluation of Pharmaceutical Care programme for outpatients: A randomized controlled trial, 2011
8. Principal supervisor for: Tahani Qahwaji. Evaluation of the role of pharmacist in identifying and managing patients with CVDs. 2010
9. Co-supervisor for: Mohammed edwib. Evaluation of pharmaceutical care programme in patients with diabetes, A randomized controlled trial, 2011.

