

Anan S. Jarab

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Place/date of birth Kuwait, June 9th, 1977
Nationality Jordanian
Marital status Married
Job Title Associate Professor of Clinical Pharmacy and Pharmacotherapy

Education

- PhD in Clinical Pharmacy and Pharmacy Practice, Queen's University Belfast (Clinical and Practice Research Group/School of Pharmacy), United Kingdom (2005~2008).
Thesis: An integrated disease and medicines management program for patients with type 2 diabetes; under the supervision of James McElroy.
- BSc in Pharmacy, University of Jordan, Jordan (1995 ~ 2000; rating: 3.5 out of 4.0; Ranked third among colleagues).

Dissertation Work (2005~2008):

Using Randomized, Controlled, Clinical trial technique to evaluate the impact of pharmaceutical care program on clinical and humanistic outcomes in patients with type 2 diabetes attending an outpatient diabetes clinic at Whiteabbey Hospital in Belfast, United Kingdom

Teaching experience

- Aug, 2014 ~ Present: **Associate Professor of Clinical Pharmacy** at King Saud Bin Abdulaziz University for Health Sciences (KSAU-HS)- National Guard Health Affairs
Courses taught:
 - Therapeutics
 - Applied Therapeutics
 - Selected Topics in Therapeutics
 - Medication Therapy Management
 - Introductory Pharmacy Practice Experience IPPE
- May, 2013 ~ August, 2014: **Associate Professor of Clinical Pharmacy**
- Sep, 2008 ~ May, 2013: **Assistant Professor of Clinical Pharmacy** at Al-Zaytoonah University of Jordan

Courses taught:

- Clinical Pharmacy and Therapeutics 1
 - Clinical Pharmacy and Therapeutics 2
 - Hospital-based Clinical Pharmacy Practice at Al-Isra'a Hospital in Amman.
- 2006 ~ 2008: Graduate Teaching Assistant at Queen's University of Belfast in the United Kingdom

Clinical experience

- Co-coordinator of IPPE courses at King Saud Bin Abdulaziz University for Health Sciences (KSAU-HS)
- Sep, 2008 ~ Aug, 2014: Hospital-based Clinical Pharmacy Practice for Pharmacy students at Al-Isra'a Hospital in Amman.
- Research collaboration with the Outpatient Diabetes Department and Pharmacy department in the Royal Medical Services (RMS) Hospital.
- Research collaboration with the Outpatient Respiratory Department and Pharmacy department in the Royal Medical Services (RMS) Hospital.

Research interests

- Designing and implementing a Randomized Controlled Clinical Trials to evaluate the impact of pharmaceutical care interventions on health outcomes in patients with diabetes, hypertension, CAD, CKD and COPD
- Investigation of factors which significantly predict medication non-adherence in patients with diabetes, hypertension, CAD, CKD and COPD
- Identifying different drug therapy problems in patients with chronic diseases including diabetes, hypertension, CAD, CKD and COPD.

Scholarships and awards

- Oct 2012: Award of Distinguished Researcher from Al-Zaytoonah University of Jordan
- 2006~2008: PhD fellowship from Al-Zaytoonah University of Jordan.
- 2007~2008: Research Assistantship from the School of Pharmacy, Queen's University of Belfast, UK
- 2005~2008: Teaching Assistantship from the School of Pharmacy, Queen's University of Belfast.
- 1995~2000: Honorary Award from University of Jordan for distinguished academic performance (awarded to first class students).

Publications

I. Refereed publications

- Albekairy AM, Alkatheri AM, **Jarab A**, Khalidi N, Althiab K, Alshaya A, Saleh KB, Ismail WW, Qandil AM. Adherence and Treatment Satisfaction in Liver Transplant Recipients. *Saudi J Gastroenterol*. 2015 Sep 8. doi: 10.4103/1319-3767.164209. [Epub ahead of print].
- Al-Qirim T, Shattat G, Sheikha GA, Sweidan K, Al-Hiari Y, **Jarab A**. Synthesis of novel N-(4-benzoylphenyl)-2-furamide derivatives and their pharmacological evaluation as potent antihyperlipidemic agents in rats. *Drug Res (Stuttg)*. 2015 Mar;65(3):158-63.
- **Jarab AS**, Almrayat R, Alqudah S, Thehairat E, Mukattash TL, Khmour M, Pinto S. Predictors of non-adherence to pharmacotherapy in patients with type 2 diabetes. *Int J Clin Pharm*. 2014;36(4):725-33.
- Mukattash TL, Nuseir KQ, **Jarab AS**, Alzoubi KH, Al-Azzam SI, Shara M. Sources of Information Used when Prescribing for Children, A Survey of Hospital Based Pediatricians. *Curr Clin Pharmacol*. 2014;9(4):395-8
- **Anan S. Jarab**, Salam G. Alqudah, Tareq L. Mukattash, Ghassan Shattat, Tariq Al-Qirim. A Randomized Controlled Trial of Clinical Pharmacy Management of Patients with Type 2 Diabetes in an Outpatient Diabetes Clinic in Jordan. *J Mang Care Pharm*. 2012;18(7):516-26.
- Maher Khmour, Hussein Hallak, **Anan S. Jarab**, Muammer Shaheen, Qusai Al-Shahed. Prevalence, awareness, treatment and control of hypertension in the Palestinian population. *J Hum Hypertens*. 2013 Oct;27(10):623-8.
- AbuRuz SM, Alrashdan Y, **Jarab A**, Jaber D, Alawwa IA. Evaluation of the impact of pharmaceutical care service on hospitalized patients with chronic kidney disease in Jordan. *Int J Clin Pharm*. 2013 Oct;35(5):780-9.
- Tareq L. Mukattash, Linda Tahaine, Naseer AlRawi, **Anan Jarab**, Hanna Hammad, Khawla Nuseir. Behaviors and Attitudes towards Dysmenorrhea; a Cross-sectional Survey of 2,000 Jordanian University Students. *Jordan Medical Journal*. 2013;47(1):26-34.
- **Anan S. Jarab**, Salam G. Alqudah, Maher Khmour, Mohammed Shamsain, Tareq L. Mukattash. Impact of pharmaceutical care on health outcomes in patients with COPD. *Int J Clin Pharm*. 2012;34(1):53-62.
- **Anan S. Jarab**, Iqbal Thehairat, Salam G. Alqudah, Haitham Alkoshman, Tareq L Mukattash. Obstacles to therapy adherence in patients with COPD. *IJPEP*. 2012;8(2).
- Tareq L. Mukattash, Mayyada Wazaiy, Najwa Khuri-Boulos, **Anan Jarab**, Ahmed F. Hawwa, James C. McElroy. Perceptions and attitudes of Jordanian paediatricians toward off-label paediatric prescribing. *Int J Clin Pharm*. 2011;33(6):964-973.
- Tareq L. Mukattash, Mohd Shara, **Anan S. Jarab**, Sayer Al-Azzam, Ammar Almaaytah and Yazid N. Al Hamarneh. (2012). Public knowledge and awareness

of cardiovascular disease and its risk factors: a cross sectional study of 1000 Jordanians. *IJPP*. March, 2012;20(6):367-76.

- Maher R. Khmour, **Anan S. Jarab**, Heba O. Adas, Ekhlal Z. Samaro, Tareq L. Mukattash and Hussein O. Hallak. Identification of Drug-Related Problems: A Prospective Study in Two General Hospitals. *Curr Clin Pharmacol*. 2012;7(4):276-81.
- Salah M. AbuRuz, Moatasem A. Al-Ghazawi, Naela Bulatova, **Anan S. Jarab**, Izzat A. Alawwa, Akram Al-Saleh. Expectations and Experiences of Physicians Regarding Pharmaceutical Care and the Expanding Role of Pharmacists in Jordan. *JJPS*. 2012;5(1):74-85.
- Moyad Shahwan, Ghassan Shattat, Tariq Al-Qirim, Ghassan Abu Sheikha, Yusuf Al-Hiari, Waseem El-Huneidi, **Anan Jarab**, Manal_AL-Najdawi. Pharmacological Evaluation of Novel Substituted and Unsubstituted *N*-(benzoylphenyl)-1*H*-indole-2-carboxamides as potent antihypertriglyceridemic agents. *Z Naturforsch C*. 2010; 65(5-6):309-16.

II. Non-refereed publications

- Randomized controlled trial of clinical pharmacy management of patients with type 2 diabetes in an outpatient diabetes clinic in Jordan. Research abstract and poster presented at the **European Association of Hospital Pharmacists (EAHP) in Paris, France 13-15 March, 2013**.
- Impact of Pharmaceutical care on Health outcomes in patients with COPD. Research abstract and poster presented at a conference entitled: **ASHP Summer meeting in Baltimore, Maryland, USA, June, 2012**.
- Obstacles to therapy adherence in patients with COPD. Research abstract and poster presented at a conference entitled: **Toward New Advances in Pharmaceutical and Clinical Research in Al-Zaytoonah University of Jordan, Amman, October, 2012**.
- Pharmaceutical care for type 2 diabetes patients attending outpatient clinic in Belfast; Oral talk presented in the Royal Medical services Conference, **Dead Sea, Jordan, May, 2010**.
- Factors predicting medication adherence in patients with type 2 diabetes; Research abstract and poster presented at the Jordan Pharmaceutical association; Amman, 2010.
- Developing and evaluating the impact of an integrated disease and medicines management programme on type 2 diabetes patients attending an outpatient clinic at Whiteabbey Hospital in Northern Ireland. Research abstract and poster presented at **American Association of Pharmaceutical Scientists (AAPS) Conference in Los Angeles, California, USA; 2009**
- Factors which influence diabetes care in patients with type 2 diabetes-A qualitative study; Research abstract and poster presented at a conference entitled: **toward better diabetes management in Northern Ireland; 2007**.

Research Review Experience

- Research reviewer at Diabetes Research and Clinical Practice Journal (I.F: 2.754).
- Research reviewer at Respiratory Research Journal (I.F: 3.38)
- Research reviewer at Hypertension Research Journal (I.F: 2.576)

Research Examiner

Externat Examiner on the following selected Master projects

- Effects of simvastatin therapy on selected novel adipocytokines in type 2 diabetic patients
- Prevalence of non-adherence among psychiatric patients, a cross sectional study
- Leptin and Adeponectin Role in Colorectal Cancer
- Assesment of adherence to treatment recommandations in patients with type 2 diabetes
- Effect of Leptin gene methlation on colorectal cancer chemoresistance

Extracurricular activities

- Sep 2014~Present: Head of Pharmacy Residents Teaching Certificate Program at College of Pharmacy/King Saud Bin Abdulaziz University for Health Sciences
- Sep 2014 ~Present: Full member at the ACCP (American College of Clinical Pharmacy)
- Sep 2012~June 2013: Head, Dept. Clinical Sciences, Faculty of Pharmacy, Al-Zaytoonah University of Jordan.
- May 2012~May 2014: Vice President of Clinical Pharmacy Committee at the Jordan Pharmaceutical Association
- May 2012~ May 2014: Vice President of the Academic Pharmacists Committee at the Jordan Pharmaceutical Association
- Sep 2010~Sep2011: Representative of Faculty of Pharmacy at University Council in Al-Zaytoonah University of Jordan
- 2009~Aug 2014: Head of Graduation committee at Al-Zaytoonah University of Jordan

- Sep2009~Sep 2012: Member of Quality Assurance committee at Al-Zaytoonah University of Jordan
- August, 2000~ Present: Member of the Jordan Pharmaceutical association