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School of Pharmacy

University of Jordan

Department of Biopharamceutics and Clinical Pharmacy

Amman, Jordan 11942, Jordan

DrEman A Hammad

**Education**

Sep 2018- May 2019 Post doc Fulbright visiting Scholar, University of Illinois at Urbana Champaign, US

June 2010 – June 2013 Doctor of Philosophy (PhD), University of East Anglia

*Optimising Medicine Reconciliation at the Healthcare Interface; a trust wide audit, a systematic review of cost and effectiveness and a pilot randomised clinical trial*

Sept 2007 – Jan 2010 Master (MSc) of Clinical Pharmacy, University of Jordan- Excellent

*Clinical pharmacist role in the management of hypertension and metabolic syndrome for optimum treatment outcomes in Jordan; a randomised clinical trial*

Sept 2002 – Jul 2007 BSc University of Jordan /Faculty of pharmacy- Excellent

**Employment History**

Sep 2017- to date Associate professor of clinical Pharmacy practice and Health economics, University of Jordan

Sept 2013- Sept 2017 Assistant professor of clinical Pharmacy practice and Health economics, University of Jordan

Oct 2009 – Jun 2010 Teaching assistant, University of Jordan/ School of Pharmacy

Jul 2007 – Oct 2008 Senior pharmacists- Pharmacy OneAbdoun/Qweesmah, Jordan

**Professional Experiences**

Sep 2019 to sep 2020 Assistant Dean of clinical trainingand hospital affairs for Pharm D students

Sep 2013- to dateTeaching in health economics and clinical pharmacy practice at the leading school of Pharmacy, University of Jordan

Lecturing and workshop delivery

Sept 2010 – Sept 2012: Teaching in pharmacy research skills, health statistic and economics, University of East Anglia, UK

Workshop *Demonstrating*

Oct 2009 – Jun 2010 Industrial pharmacy/ dispensing Lab, University of Jordan

*Lab Demonstrating*

Nov 2008 – Nov 2009 Principle investigator; establishing an experimental clinic to managehypertensive patients and metabolic syndrome collaboratively with physicians, providing pharmaceutical care interventions and patient counselling at Jordan University Hospital/Family Medicine Clinic (MSc dissertation project).

Nov 2008 – Nov 2009 Clinical pharmacist, Jordan University Hospital/ Internal medicine department (MSc clinical pharmacy placement)

Jul 2007 –Oct 2008 Community Pharmacist- Pharmacy One international Abdoun/Qwesmah

**Research Experience/Skills**

**Sep 2018 to date.** Exploring patterns of treatment pathways of Breast cancer patients in Jordan: A focus on cost and survival

**Jan 2018 to date** Developing a Markov Model for the Cost-Effectiveness of Pharmacist Care among diabetic patients in Jordan

**Skills:** Markov Modelling

**November 2016 to date** Measuring willing to pay for clinical pharmacy services among Jordanian population: a direct measure using a self-completed questionnaire

**Skills: Assessing patients and organization factors influencing willing to pay for pharmacy services. Steering health and policy discussion to establish needs, benefits and costs of clinical pharmacy evert day practice intake in Jordan**

**Sep 2014 to 2016** Assessment of economic impacts of pharmacist led asthma education and costs of inappropriate use of surgical prophylaxis in patient undergoing Caesarean delivery in Jordan

**Skills: cost identification and valuation of health intervention in Jordan and potential impact to inform policy and health management decisions**

Sep 2014 to date Validity of the the EuroQal (EQ-5D) in Jordanian population: first TTO-based social value set

**Skills: Patient interviews to produce a country-specific value set for EQ-5D health states representing the preferences of the Jordanian general population.**

Sep 2013- to date Establishing the role of Pharmacoecomic and evidence based decision in drug pricing decision in Jordan

**Skills: Review of drug pricing decisions in Jordan, drafting a Pharmacoeconomic recommendations for drug pricing in Jordan. Cost analysis of services provided by public hospitals**

**May 2014 to date** Evaluation of the over the counter medication supply and counseling in community pharmacies in Jordan using patient simulation approach

**Skills: assessing use, feasibility and responsiveness of community pharmacists on simulated patient minor ailments and counseling request using various scenarios and outcomes measures.**

**July 2016 to date** Conducting a systematic review to summarise the impacts of clinical pharmacy service on health outcomes among Jordanian patients to inform a Markov Model of the Cost-Effectiveness of Pharmacist Care among Jordanian patients

**Skills: literature reviewing and evidence synthesis, quality assessment of research and studies, critical appraisal, reference and bibliography management. Additionally, quantify the long-term preventive effects of pharmacist**

**Interventions and discussion of driver for practice improvement**

**in Jordan. Estimating the unit costs of health services in the public sector of Jordan**

Jul 2012-Mar 2013Conducting a randomise clinical trial (RCT) of pharmacist led medicine reconciliation at the health interface in Cambridge university hospital foundation trust, UK

**Skills: Developing and evaluating health interventions, Heath ethics, patient consent and cost-effectiveness analysis**

Mar 2012- Mar 2013 Conductinga systematic review evaluating pharmacy led medicine reconciliation in hospital

**Skills: literature reviewing and evidence synthesis, quality assessment of research and studies, critical appraisal, reference and bibliography management**

Jun 2010-Dec 2011Conducting a wide trust audit/epidemiological study across Norfolk- East of England to evaluate quality of discharge information

**Skills: Clinical Audit conduction and development, regression analysis, interrater reliability analysis and quality assurance of clinical data**

Nov 2008-Nov 2009 Conducting RCT of pharmacist- physician collaboration in family medicine clinics managing hypertension and metabolic syndrome/ Jordan university hospital

**Skills: Developing and evaluating health interventions, Heath ethics, Data analysis using SPSS software**

**Publications and under review/ working papers**

**Peer-reviewed Journals**

* Mariam H. Abdel Jalil, Mervat M. Alsous, **Eman A. Hammad**, Rimal Mousa, Mais M. Saleh, and Khawla Abu Hammour. Perceived Public Stress Among Jordanians During the COVID-19 Outbreak. Disaster Medicine and Public Health Preparedness 2020
* MHA Jalil, MM Alsous, KA Hammour, MM Saleh, R Mousa, **EA Hammad**. Role of pharmacists in COVID-19 disease: a Jordanian perspective.

. Disaster Medicine and Public Health Preparedness, 1-17. 2020

* Rimal Mousa&**Eman A Hammad**. Direct Medical Cost of Breast cancer among Jordanians. Accepted paper
* Rimal Mousa&**Eman A Hammad**.Cost-Effectiveness of Pharmacist Led Care in Type 2 Diabetic Jordanians: A Markov Modeling of Cardiovascular Diseases Prevention. On press
* Eman A Hammad, Rimal Mousa, Ahmad A. Hammad2, Mohammad Al-Qudah. Knowledge, and Attitudes about Health/Pharmacoeconomics in medical, dental, pharmacy and nursing undergraduates in Jordan
* **Eman A Hammad**, Ibrahim Alabbadi, Nathir M Obeidat, Eman Massad, Fardos Taissir, Zaid Baqain, Ali Maaieh, Qais Alefan, Salah AbuRuz. An empirical estimation of Healthcare unit costs in public providers in Jordan. Under peer review
* M Wazaify, E Elayeh, R Tubeileh, **EAHammad**. Assessing insomnia management in community pharmacy setting in Jordan: A simulated patient approach. PloS one 14 (12), 2019
* ER Elayeh, **EA Hammad**, RH Tubeileh, IA Basheti. [Use of secret simulated patient followed by workshop based education to assess and improve inhaler counseling in community pharmacy in Jordan](javascript:void(0)). Pharmacy Practice 17 (4), 2019
* D Jaber, S Aburuz, EA **Hammad**, H El-Refae, IA Basheti. Patients' attitude and willingness to pay for pharmaceutical care: An international message from a developing country. ResearchResearch in Social and Administrative Pharmacy 15 (9), 1177-1182, 2019
* **EA Hammad**, RA Qudah, AA Akour. The impact of clinical pharmacists in improving Jordanian patients’ health outcomes.Saudi medical journal 38 (11), 1077, 2017
* **Eman A Hammad,** Eman Elayeh, Razan Tubeileh, Margaret Watson, Mayyada Wazaify. A novel simulated patient approach to assess over the counter medication supply and counseling in Jordan: I need something for headache!. (2017) accepted May 2018
* Brit Cadman, David Wright, Amanda Bale, Garry Barton, James Desborough, **Eman A Hammad,** Richard Holland, Helen Howe, Ian Nunney, Tracey Sach, Anthony Warford Lisa Irvine. Pharmacist provided medicines reconciliation within 24 hours of admission and on discharge: A randomized controlled pilot study. BMJ Open (2017). [In Press, Accepted Manuscript](http://www.sciencedirect.com/science/journal/aip/13190164)March 2017
* Iman A Basheti, **Eman A Hammad**, Sinthia Z Bosnic-Anticevich. Economic Impact of Inhaler Misuse in Australia and Jordan: checklist guided patient education can reduce pharmaceutical expenditures. Jordan Journal of Pharmaceutical sciences (2017). [In Press, Accepted Manuscript](http://www.sciencedirect.com/science/journal/aip/13190164)March 2017.
* **Eman A Hammad**, Amanda Bale, David J Wright, Debi Bhattacharya. Pharmacy led medicine reconciliation at hospital: A systematic review of effects and costs. Research in Social and Administrative Pharmacy. 2017; 13(2): 300–312
* Areej Assaf, **Eman A Hammad**, Randa Haddadin. Influenza Vaccination Coverage Rates, Knowledge, Attitudes, and Beliefs in Jordan: A Comprehensive Study. Viral Immunology.2016; 29 (9), 516-525.
* Mayyada B Shehadeh, Gadeer Suaifan, **Eman A Hammad.** Active educational intervention as a tool to improve safe and appropriate use of antibiotics. Saudi Pharmaceutical Journal. 2016; 24 (5):611-615.
* **Eman A Hammad**. The Use of Economic Evidence to Inform Drug Pricing Decisions in Jordan. Value in Health. 2016;19(2):233-238.
* **Eman A Hammad**, Taissir Fardous, Ibrahim Abbadi. Costs of hospital services in Jordan. The International journal of health planning and management. 2016; Apr 1. doi: 10.1002/hpm.2343. [Epub ahead of print]
* **Eman A Hammad**, David J Wright, Catherine Walton, Ian Nunney, D Bhattacharya. Adherence to UK national guidance for discharge information: an audit in primary care. British journal of clinical pharmacology. 2014;78 (6):1453-1464.
* Ibrahim Alabbadi, **Eman A Hammad**. The impact of generic entry and price competition in Jordanian public health sector. Journal of Generic Medicines. 2014; 11 (3-4):123-128.
* **Eman A. Hammad**, Nada Yasein, Linda Tahaineh, and Abla M. Albsoul-Younes, A Randomized Controlled Trial to Assess Pharmacist- Physician Collaborative Practice in the Management of Metabolic Syndrome in a University Medical Clinic in Jordan. J Manag Care Pharm. 2011; 17 (4):298-302.
* Abla M. Albsoul-Younes,**Eman A. Hammad**, Nada Yasein, Linda Tahaineh,.Pharmacist-Physician Collaboration Improves Blood Pressure. [Saudi Med J.](http://www.ncbi.nlm.nih.gov/pubmed/21384066) 2011 Mar;32(3):288-92.

**Published Conference Abstracts**

* **Hammad EA**, Hadidi H, Batarseh S, [Al-Efan](http://www.just.edu.jo/eportfolio/Pages/Default.aspx?email=qmefan) QM. The role of cost-effectiveness studies in Drug pricing decisions: a case review from Jordan.[Value in Health](http://www.researchgate.net/journal/1524-4733_Value_in_Health) 05/2015; 18(3):A73. DOI:10.1016/j.jval.2015.03.428
* **Hammad E A**, Cadman B, Bale A, Holland R, Nunney I, Barton G, Howe H, Desborough J, Bhattacharya D, Wright D.Medication errors: do they persist in primary care and can they be identified?.Conference abstract. International Journal of Pharmacy Practice.2013
* **Hammad E A**, Wright DJ, Walton C, Wood J, Bhattacharya D. Medicine reconciliation: An evaluation of hospital discharge discrepancies in one UK primary care trust. Conference abstract. International Pharmaceutical Federation (FIP) congress, Amsterdam- Netherland 2012.
* **Hammad E A**, Wright DJ, Bhattacharya D, Wood J. Communication of clinical information upon hospital discharge: A regional audit. Conference abstract. International Journal of Pharmacy Practice 2012.
* **Hammad E A**, Wright DJ, Bhattacharya D, Wood J. Communication of clinical information on health interface: An audit pilot. Conference abstract. International Journal of Pharmacy Practice. 2011; supp 1:page 48

**Prizes and awards**

**Academic**

* Fulbright Post-Docvisiting ScholarAward. University of Illinois Urbana-Champaign 2018/2019, Call College of Medicine.
* The Daniel Turnberg Travel Fellowships Awardee 2014 [The Manchester Centre for Health Economics, UK]
* Best Master thesis in health faculties, University of Jordan 2010.

**Non-academic**

* A certificate of excellence in extracurricular activities, University of Jordan 2006/2007
* Third place best short story writer, Dean of student affair-University of Jordan 2005-2006
* Best short story- United Arab Emirate creativity meeting of young University writers, Abu Dabi2005
* Best short story- Young future writers, Amman Jordan 2005
* Best free prose writer, language center creativity competition- university of Jordan 2004-2005
* Best free prose writer, language center creativity competition- university of Jordan 2003-2004

**Memberships**

* Formal member of Jordan Food and Drug Administration pricing committee (2013- 2017)
* Member of Jordan Pharmacy association (2007- up to date)
* Member of Arab Network, ISPOR Jordan (2013- up to date)
* Chair of community service committee at JU school of Pharmacy (2016/2017)
* Member of the Scientific research committee at JU school of Pharmacy (2013/2014)
* Member of Accreditation Council for Pharmacy Education committee for the evaluation of staff resource at JU school of Pharmacy (2015/2016)
* Member of seminar and conference committee at JU school of Pharmacy (2013-2015)

**Research interest**

* Developing and establishing the role of health/Pharmacoeconomics in health decisions in Jordan
* Developing and evaluating health interventions aiming to improve Health care and patient outcomes
* Identifying, measuring and comparing the costs and benefits of health interventions

**Funded research projects**

* Exploringpattern and treatment pathways and outcomes in breast cancer patients: cost and survival analysis
* Exploring national dataset to empirically estimate Unit Costs reference for Health Care resources in the public health sector in Jordan. Deanship of Academic Research Academic Research Council, 2014.
* Assessment of the quality and appropriateness of OTC drug sale andminor ailment management by community pharmacists in Jordan: a simulated patient study. Deanship of Academic Research Academic Research Council, University of Jordan, 2014.
* Surgical site infection: prevalence, contributing factors, prophylaxis antibiotics and additional costs. Deanship of Academic Research Academic Research Council, University of Jordan, 2015.
* Medicines reconciliation at the interface: A pilot randomised controlled trial to determine the costs and effects of a pharmacy provided service, Research for Patient Benefit Programme (RfPB), 2011. RfPB is a national, response-mode programme established in 2006 to generate high quality research for the benefit of users of the NHS in England. Project description available at:<http://www.controlled-trials.com/ISRCTN23949491>

**Courses taught**

**Undergraduate courses (BSc Pharmacy and Pharm D)**

* Pharmmacoeconomics; 4th year, core course
* ParaPharmaceutics; 5th Year, elective course
* Hospital Clerkship: Pediatric, Pharm D 6th Year, core practical course
* Research project,, Pharm D 6th Year, core course
* Medical terminology, 1st year, core course
* Over the counter drugs, 5th year, core course
* **Postgraduate course (MSc in Clinical Pharmacy)**
* Pharmaceutical care; core course
* General Hospital Practice

**Master students supervision**

1. EQ-5d as a generic measure of Health-related Quality of life in Jordan: reliability, validity and responsiveness. Main and sole advisor: *Dr.Eman Hammad*; (Student: Naffin Yanal- successfully defended July 2017)
2. Medication Reconciliation Practice, Implementation, Responsibility and Barriers: Perceptions of Doctors, Nurses and Pharmacists in a teaching hospital in Jordan. Main advisor: *Dr.Eman Hammad*; Co-advisor: Dr Khawla Abu Hammour (Student: Seliman Ibrahim- successfully defended May 2017)

**References**

* Dr Debi Bhattacharya, PhD, Senior Lecturer in Health Services Research

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* Abla Albsoul-Younes, Ph.D., Professor

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