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Updated: 15th MArch 2021



Dr. Rimal Mousa

Education

September 2013 – August 2017 Doctor of Philosophy (PhD), University of Nottingham

Investigating the cost-effectiveness of using different treatment strategies in older women with primary breast cancer

Sept 2009 – July 2011 MSc degree in clinical pharmacy with G.P.A: 3.78 , The first rank. Excellent

(The evaluation of the development of anti-insulin neutralizing antibodies in diabetic patients treated with exogenous insulin)

Sept 2004 – Jul 2009 BSc University of Jordan /Faculty of pharmacy- with G.P.A: 3.78 , The third rank. Excellent

Employment History

August 2017– To date Assistant professor of Health economics, University of Jordan

Oct 2012 – July 2013 Teaching assistant, University of Jordan/ School of Pharmacy

Professional Experiences

One year training at the Hospital of the University of Jordan, including administration and prescription of drugs in all departments of the hospital

Three months On-The-Job-Training in “Pharmacy One” in Amman/ Jordan

5 month training in JU hospital as clinical pharmacist in outpatient and inpatient setting, make clinical Rotation with physicians in different department (infection, pediatric, surgery, GI, dialysis) discuss with them drug related problem In term of safety and efficacy (based on guidelines and evidence based medicine) and Make patient education about his/her medications(in both knowledge and adherence)

Research Experience/Skills

September 2013-July 2014. Conducting a systematic review of economic evaluation using different treatment strategies in postmenopausal women with primary breast

Skills: systematic literature review using a large number of database, including NHS Economic Evaluation Database, Cochrane Library, Ovid Medline, PubMed, and EMBASE, evidence based medicine, quality and modelling methodology assessment of studies, critical appraisal, screening the literature and summarize the key parameters using Microsoft access

July 2014- March 2015. Data analysis of a large longitudinal database of older women, who were diagnosed with primary breast cancer at age over 70 years, identifying treatment pathways, clinical effectiveness, and resource use.

Skills: Regression analysis including survival analysis for time to event data, multinomial logistic regression and generalized linear model for imputing missing data

March 2015-Dec 2015. Conducting an economic evaluation alongside an observational studies

Skills: Effectiveness and cost analysis, bootstrapping, utility mapping using multinomial logistic regression, propensity score matching to minimize the selection bias

December 2015-March 2016. Conducting an economic evaluation based on a decision analytical model combining data from different sources

Skills: designing a Markov model based on literature, Monto Carlo simulation, bootstrapping, conducting a decision analytical model using excel, regression analysis such as Weibull regression, costing analysis

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**

Peer reviewed-Publications/working paper

Peer-reviewed Journals

- Direct medical costs of breast cancer in Jordan: cost drivers and predictors Expert Review of Pharmacoeconomics and Outcomes Research. 2020.
<https://doi.org/10.1080/14737167.2021.1859372>
- Rimal Mousa and Eman Hammad. Cost-Effectiveness of Pharmacist Led Care in Type 2 Diabetic Jordanians: A Markov Modelling of Cardiovascular Diseases Prevention. Expert Review of Pharmacoeconomics and Outcomes Research. 2020.
<http://doi.org/10.1080/14737167.2021.1838900>
- Developing an economic model for assessing the cost-effectiveness of primary endocrine therapy in treating older women with primary breast cancer: a systematic review. Working paper
- Abdel Jalil M, Alsous MM, Abu Hammour K, Saleh MM, Mousa R, Hammad EA. Role of Pharmacists in COVID-19 Disease: A Jordanian Perspective. Disaster medicine and public health preparedness 2020:1-7.
- Hammad EA, Mousa R, Hammad AA, Al-Qudah M. Awareness, knowledge, and attitudes of health professions students toward health economics and pharmacoeconomics education in Jordan. Currents in Pharmacy Teaching and Learning 2020.
- 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. Perceived Public Stress Among Jordanians During the COVID-19 Outbreak. Disaster Medicine and Public Health Preparedness 2020.

Published Conference Abstracts

Conference presentations

Mousa R, Chen LC, Cheung KL. An evidence-based model design to inform the cost-effectiveness evaluation of primary endocrine therapy and surgery for older women with primary breast cancer. Value in Health. 2014;17(7):A638.

Mousa R, Chen LC, Cheung KL. An evidence-based model design to inform the cost-effectiveness evaluation of primary endocrine therapy and surgery for older women with primary breast cancer. Poster Presentation. Primary breast cancer symposium 15 March 2015

Mousa R, Chen LC, Cheung KL. Cost-effectiveness of primary endocrine therapy against surgery for older women with primary breast cancer. Poster Presentation. ISPOR 2016. Annual international congress 24 May 2016, Washington DC.

Mousa R, Hammad EA. Cost-Effectiveness of Pharmacist Led Care in Prevention of Cardiovascular Diseases in Type 2 Diabetic Jordanians: A Markov Model simulation. *FIP Regional Conference for the Eastern Mediterranean*. April 2019

Mousa R, Hammad EA, Hammad, Al-Qudah M. Awareness, Knowledge, and Attitudes of Health Professions Students Toward Health/Pharmacoeconomics Education in Jordan. The first international health conference for the Jordan Healing and Health Bank. March 2020

Speaker at conferences

Four talks at the Evidence Based Medicine and Health economic conference. 8-12 December 2020

Talk at the School of Pharmacy symposium 8 April 2021. Cost-Effectiveness of Pharmacist Led Care in Prevention of Cardiovascular Diseases in Type 2 Diabetic Jordanians: A Markov Model simulation

Presenter at the “Basics of Health Economics (HE) and Pharmacoeconomics (PE)” module held virtually between 25/5 and 7/7/ 2021

Prizes and awards

Academic

Full scholarship that involve tuition fees and live expenses for MSc degree from Ministry of Higher education and scientific research in Jordan

Best winner of poster (*The evaluation of the development of anti-insulin neutralizing antibodies in diabetic patients treated with exogenous insulin*) in 2012

Research interest

- Evaluating the cost effectiveness of different health care intervention
- Economic modelling of long-term cost and outcomes
- Conducting systematic review and critical appraisal studies
- Developing and evaluating health interventions aiming to improve Health care and patient outcomes
- Conducting regression to analyze long-term database

Funded research projects

- Exploring pattern and treatment pathways and outcomes in breast cancer patients: cost and survival analysis

References

Available upon request