

## **Marwa Ezzat Farag**

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### **EDUCATION:**

#### **2010: Ph.D. Health Policy**

The Heller School For Social Policy and Management, Brandeis University, USA

#### **2007: M.A. Social Policy**, The Heller School, Brandeis University, USA

#### **2005: M.Sc. International Health Policy and Management**, The Heller School, Brandeis University, USA

#### **2001: M.Sc. Health Policy, Planning and Financing (Health Economics)**, London School of Economics (LSE) and London School of Hygiene and Tropical Medicine (LSHTM), University of London, UK

#### **1996: BA. Commerce (Accounting and Economics)**, Menoufia University, Egypt

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### **WORK EXPERIENCE:**

#### **August 2010- Present: School of Public Health, Saskatchewan University, Canada**

##### *Assistant Professor (Tenure-Track)*

##### *Graduate level courses taught/currently teaching:*

- *Health Policy and Politics (PUBH 867)*
- *Health Economics (PUBH 898)*
- *Health Program Planning and Evaluation (PUBH 807)*
- *Canada Health System (PUBH 852)*

Taught a total of 19 graduate-level courses – 461 graduate students

##### **Graduate students supervised or on their committee:**

- PhD Advisor for 6 PhD students
- Member of the Ph.D. Advisory Committee for 14 students

#### **June 2007- July 2010: Schneider Institutes For Health Policy, Institute for Global Health and Development, Brandeis University, USA**

##### *Research Associate/ Senior Research Associate*

Conducted quantitative cross-country analyses examining the impact of donor funding for health on recipient government expenditures on health. Conducted -with a team of researchers- a program evaluation of the Family Planning & Mother and Child Health Care programs in Egypt, working with Health Systems 2020 project (USAID funded project) and the Ministry of Health.

**September 2007- August 2009: Kennedy School of Government (KSG), Harvard University, USA**

***Research Fellow***

Conducted health policy research studies focused on the Middle East region as part of the Dubai Initiative Fellowship in collaboration with the Dubai School of Government.

**July 2003- May 2004: Iraq Health System Strengthening Program, Abt. Associates Inc., Iraq**

***Health Resource Mobilization Advisor***

Led the design of a medical facilities' database used for making resource allocation decisions. Managed a team of engineer surveyors and MOH staff for the implementation and use of the database.

Conducted baseline pre-war assessment studies for the health care sector in Iraq particularly focused on costing of health care services.

Provided support to the Ministry of Health in Iraq on strategic policy issues.

**January 2002- July 2003:Health Sector Reform Program, European Technical Assistance Team, Egypt**

***Health Information Expert***

Managed a multidisciplinary team to assess health information systems and processes for providing input for the design of a unified health facility information system that meets the requirements of the new pilot project health insurance program in Alexandria as well as vertical program informational needs.

**May-June 2002 Family Health International (FHI), Egypt- (Short-term consultant)**

Participated in the technical preparation of materials for the conference on the dissemination of the Sexually Transmitted Diseases Prevalence study and in conducting monitoring and evaluation workshops for the Blood Banks

**September- November 2001 Abt. Associates, Inc. "Primary Health Care Initiative"- (Short term consultant)**

Participated in a study which goal was to assess the applicability of Management Information Systems (MIS) in Egypt to the situation in Jordan through working with a group of visiting MOH Jordanian officials.

**June 1998- July 2000: Egypt Health Sector Reform Program, Partnerships for Health Reform (PHR), Abt. Associates Inc., Egypt**

***Research Analyst***

Conducted quantitative and qualitative health policy and health care services research (contributed to the design of the analytical framework of studies, coordinated data collection and data entry, data analysis) (examples: "Alexandria Health Expenditure Review" and "Study of the Referral System in the Alexandria Pilot Project"). Participated in the preparation of National Health Accounts report for Alexandria Governorate in Egypt.

**June 1997- May1998: Cost Recovery For Health, University Research Corporation (URC), Egypt**

### ***Research Assistant***

Participated in conducting health care surveys (contributed to design and testing of questionnaires, coordinated data collection, conducted field rechecks, supervised a team of surveyors and assisted in the design of code books and data analysis): “Menoufia Health Care Utilization Survey”

### **PROFESSIONAL SERVICE**

**Manuscript Reviewer for the following peer-reviewed journals:**

- **Health Policy, and Planning - 2012**
- **International Health Care Finance and Economics -2012, 2015**
- **Journal of Public Health -2015**
- **Social Science and Medicine -2014, 2015**
- **International Health Economics and Management – 2015**
- **Applied Economics - 2015**

**Internal reviewer for a Canadian Institutes of Health Research (CIHR) Operating Grant** (PI: Dr. Rein Lepnum) for the September 2012 competition. The grant proposal was entitled “The Effect of Alternative Physician Payment Plans on Career Satisfaction and Distress”.

**Internal reviewer for a Saskatchewan Health Research Foundation (SHRF) Establishment Grant** (PI: Dr. Marcella Ogenchuk) for the 2013 competition. The grant proposal was entitled “Campaigns with Outcomes: Developing and Implementing Student-led Processes for Alcohol Awareness”.

Canadian Society for Epidemiology and Biostatistics Annual Conference 2012. Conference judge

### **CONFERENCES/ INVITED PRESENTATIONS**

**Invited Presentation:** Western Training Regional Center for health services (WTRC) seminar series speaker (March 2012) <http://wrtc-hsr.ca/>

**Invited Presentation:** School of Public Health Seminar Series – April 4, 2013 “Analysis of Health Labor Markets”

**Invited Presentation:** Western Training Regional Center for health services WTRC seminar series Saskatoon, SK, <http://wrtc-hsr.ca/> March 2012. Topic “Economic Analysis of the Nurse Labor Market in Egypt.”

**Conference Presentation:** Two manuscript abstracts presented at the American Public Health Association (APHA) conference (Poster Presentations) November 2013:

1-Abstract Title: Relationship between provincial health spending and cervical cancer early diagnosis in Canada. Lesley James, MPH, Matthew Feldman, MPH, Adeteju Bababunmi, MPH and Melissa Bendig, MPH, Robert Buckingham, DrPH, Michael Szafron, PhD, Marwa Farag, PhD (Last and communicating author).

2- Abstract Title: Determinants of self perceived health for Canadians aged 40 and older Robert Weiler, MD., MPH, Rotimi Olayinka Orisatoki, MD., MPH and Xinya Lu, MPH., Robert Buckingham, DrPH, Michael Szafron, PhD, Marwa Farag, PhD (Last and

communicating author).

**Conferences attended:**

American Association for Public Health (APHA- 2012), Annual Conference – San Francisco  
Bending the Cost Curve conference (Sept. 27-28, 2012)- Saskatoon  
The Canadian Agency for Drugs and Technologies in Health CADTH Symposium 2015 – Saskatoon

**AWARDS AND HONORS:**

Received the SPH Teaching Award from the School of Public Health Students for the academic year 2010-2011, academic year 2011-2012 and academic year 2012-2013 and 2014-2015.

**VOLUNTEER WORK: (selected)**

1996-1997: Canada World Youth Program Participant  
2007-2010: The Heller School For Social Policy and Management Alumni Board Member  
2012: Adjudicator - Research grants  
Reviewed 49 research proposal grants for the Heart and Stroke Foundation of Saskatchewan  
2012- Consulted with the Elizabeth Fry Society of Saskatchewan- February 2013  
2014- Member of the steering committee of the “Food for Patient Wellbeing” Initiative started by medical students of the University of Saskatchewan  
2014- Member of the Healthy Start / Départ Santé (HSDS) Health and Wellness Guidelines and Policy Working Group

**SCHOLARSHIPS AND FELLOWSHIPS:**

2000-2001: Chevening British Council Scholarship  
2004-2005 Ford Foundation Scholarship  
2005-2007 The Heller School Scholarship  
2007-2009: DSG/KSG, Harvard University Research Fellowship

**KEY COMPETENCIES:**

- In-depth and field-based understanding of inter-related global health policy challenges and their institutional and policy context.
- Health Economics, Health Financing and Economic Evaluation.
- Quantitative and qualitative research.
- Program planning and evaluation.
- Interpersonal and communication skills. Strong writing skills. Innovation.
- Programing in STATA

**LANGUAGES:**

Arabic: Native  
English: Fluent  
French: Good command of the language

## RESEARCH GRANTS

<b>Project Title</b>	<b>Amount</b>	<b>Funding Agency</b>	<b>Time</b>	<b>Role</b>
“Honoring Our Strengths: Indigenous Culture as Intervention in Addictions Treatment” Aboriginal Health, Gender and Health, Health Services and Policy Research. Principal Investigator: Colleen Dell	\$394,372 (Average Annually for 3 years) <b>Awarded</b>	CIHR	2012-2016	Co-applicant/Co-investigator
“Assessing the Unique Living Needs and Expectations of the Aging Population in Saskatchewan for the Ilarion Residence”	\$28,850 <b>Awarded</b>	Ilarion	2012-2013	Co-applicant/Co-investigator
Research Connections Grant – CSEB Conference	\$10,000 <b>Awarded</b>	SHRF	2011-2012	Co-applicant/Co-investigator
Assessing and Mitigating Risks of Infectious Diseases (AMRID)  Principal Investigator: Emily Jenkins	<b>Awarded</b>	SHRF	Two Year	Group Member
Saskatchewan Team for Research & Evaluation of Addictions Treatment & Mental Health Services (STREAM)  Principal Investigator: Colleen Dell	<b>Awarded</b>	SHRF	2012-Three Year	Group Member
Evaluation of Pharmacist Prescribing for Minor Ailments Program.  Jeff Taylor, Kerry Mansell and Marwa Farag	\$46,300 <b>Awarded</b>	Canadian Foundation for Pharmacy Innovation Fund grant	October 2014	Co-applicant
Economic Burden of Diabetes Complications and the Potential Influence of Selected Factors  Marwa Farag, Hassan Vatanparast, Michael Szafron and Cindy Feng	Applied	Canadian Diabetes Association Grant	September 2015	Nominated Co-Principal Applicant
Mobile clinics for Hepatitis-C patients in the Big River First Nations community  Stuart Skinner, Mamata Pandey, Calvez Stryker, Marwa Farag, Derek Klein	Applied	SHRF Collaborative Innovative Grant Infectious Diseases	September 2015	Co-applicant

## **PUBLICATIONS IN PEER-REVIEWED JOURNALS:**

Caldbick S., Wu X., Lynch T., Al-Khatib N., Andkhoie M., **Farag M.** The Financial Burden of Out of Pocket Prescription Drug Expenses in Canada. (2015) *International Journal of Health Economics and Management: Volume 15, Issue 3, Page 329-338*

Rowan M., Poole N., Shea B.,Gone J.P., Mykota D., **Farag M.**, Hopkins C., Hall L., Mushquash C., and Dell C. (2015) A scoping study of cultural interventions to treat addictions in Indigenous populations: methods, strategies, and insights from a Two-Eyed Seeing approach. *Substance abuse treatment, prevention, and policy, 10(1), 26.*

Schurer, J. M., Rafferty, E., **Farag, M\***, Zeng, W., & Jenkins, E. J. (2015). Echinococcosis: An Economic Evaluation of a Veterinary Public Health Intervention in Rural Canada. *PLoS Neglected Tropical Diseases, 9(7), e0003883.*

Andkhoie M., Pandovska-Pelivanova E., Emmanue S., Lateef F., Szafron M., **Farag ME.** (2014) Demand and Burden of Dental Care in Canadian Households. *International Journal of Economics and Finance; 6(9), p73.*

Rowan M., Poole N., Shea B.,Gone J.P., Mykota D., **Farag M.**, Hopkins C., Hall L., Mushquash C., and Dell C. (2014) Cultural interventions to treat addictions in Indigenous populations: findings from a scoping study. *Substance abuse treatment, prevention, and policy, 9(1), 34.*

**Farag M.**, Nandakumar A.K., Wallack S.S., Gaumer G., Hodgkin D., Erbil C. (2013) Health Spending, Health Outcomes and the Role of Good Governance, *International Journal of Health Care Finance and Economics, volume 13, Issue 1,Pages 33-52*

**Farag M.**, Nandakumar A.K., Wallack S.S., Gaumer G., Hodgkin D., Erbil C. (2012) The Income Elasticity of Health Care Spending in Developing and Developed Countries. *International Journal of Health Care Finance and Economics Volume 12, Issue 2, Page 145-162*

**Farag M.**, Nandakumar A.K., Wallack S.S., Gaumer G., Hodgkin D. (2009). Donor Funding and Government Health Spending in Developing Countries. *Health Affairs 28, no.4. pages 1045-1055*

Nandakumar A.K., **Farag M.E.** Determinants of National Health Expenditure. (2008). *International Encyclopedia of Public Health, volume 2, pages 136-145. Academic Press, San Diego.*

## **WORKING PAPERS:**

**Farag M.E\***(2009) Health Financing and Health Outcomes in the Eastern Mediterranean Region Economic Analysis of the Nurse Shortage in Egypt. Kennedy School of Government, Belfar Centre, Harvard University- Dubai Initiative Working Paper July 5 2009

**Farag M.E\***.(2008). Economic Analysis of the Nurse Shortage in Egypt. Kennedy School of Government, Belfar Centre, Harvard University- Dubai Initiative Working Paper April 17, 2008

## **RELEVANT PROJECT TECHNICAL REPORTS: (Selected)**

Farag M.E.\*, Gaafar R., Fadel A., Al-Zeyada M., (2004). Flow of Funds- Iraq Health Sector, Abt. IHSS Project, Abt. Associates. Inc.  
[http://pdf.usaid.gov/pdf\\_docs/PNADB598.pdf](http://pdf.usaid.gov/pdf_docs/PNADB598.pdf)

Liu X., Jaber M., Farag M.E.\*, Al-Zeyada M., Ali N., Lavantez M. (2004). Concept Paper for the National Health Care Quality Improvement Program in Iraq, IHSS, Abt. Associates Inc.  
[http://pdf.usaid.gov/pdf\\_docs/PDACA956.pdf](http://pdf.usaid.gov/pdf_docs/PDACA956.pdf)

Farag M.E.\*, Al-Zeyada M., Olson M., Zajac D., Hasses Z., Dhari T. (2004). Development of Iraq Health Facilities Database IHSS, Abt. Associates Inc.  
[http://pdf.usaid.gov/pdf\\_docs/PDACA956.pdf](http://pdf.usaid.gov/pdf_docs/PDACA956.pdf)

Telyukov A., Paterson M., Farag M.E.\*, Al Shaikhli E. (2003). Resources, Costs and Utilization of care in the primary health care sector of Iraq: Based on a sample from Al-Karkh district in Baghdad. IHSS, Abt. Associates Inc.

Farag M.E.\*, Rhodes G., and Mokhtar A. (2003). Developing a population-centred resource allocation formula for the geographical distribution of MOHP resources. European Commission Technical Assistance Team, ECTAT publication.

Thompson R., Rhodes G., and Farag M.E.\* (2002). Proposal for the development of contracting private sector providers. European Commission Technical Assistance Team, ECTAT publication.

Rhodes G., and Farag M.E.\* (2002). The impact of the three tier provider reimbursement proposals on incomes in one clinic in Alexandria Governorate. European Commission Technical Assistance Team, ECTAT publication.

Farag M.E.\*, El-Bestawy N., Bakry H., Mohammed E., Hefnawy M., Sharaf M., and Abass M. (2002). Overview of the Health Information situation in Alexandria. European Commission Technical Assistance Team, ECTAT publication.

Farag M.E.\* and Rhodes G., (2002). Making life easier at the facility level and still satisfying the requirements from multiple information users. European Commission Technical Assistance Team, ECTAT publication.

Gaumer G., Lyn M., and Ezzat M. \*. (2000). Study of the Referral System in the Alexandria Pilot Project. PHR publication.  
[www.healthsystems2020.org/files/1417\\_file\\_te56fin.pdf](http://www.healthsystems2020.org/files/1417_file_te56fin.pdf)

NandaKumar A.K., Khaled N., Ibrahim A., and Ezzat M. \* (1999). Alexandria Health Expenditure Review. PHR publication.  
<http://www.abtassociates.com/reports/19998744754961-Egypt.pdf>

Khalil A., Sadiq A., and Ezzat M.\* (1997). Menoufia Health Care Utilization Survey. URC publication.

#### POSTGRADUATE STUDENTS SUPERVISED OR ON THEIR COMMITTEE

#	Type	Name	Degree	DEPT.	Thesis Subject Area	Thesis Title	Time Frame
	<b>Supervision</b>						
1	Supervisor	Ellen Rafferty	PhD <b>Dean's Scholar</b>	School of Public Health	V & I/ Economic Evaluation	Cost-effectiveness of Vaccines in Canada	August 2013-present

			<b>ship ITraP fundin g</b>	V & I program			
2	Supervisor	Stephanie Ortynsky	PhD	School of Public Health  V & I program	V & I/ Public Policy	Vaccine Hesitancy in Canada	January 2015- present
3	Co- supervisor	Dana Ramsay	PhD  <b>Dean's Scholar ship ITraP fundin g</b>	School of Public Health  Epidemiol ogy Program	Epidemiology / Public Policy	The epidemiology of foodborne Antimicrobial Resistance (AMR)	August 2014- present
4	Co- supervisor	Mohsen Yaghoubi	PhD <b>Dean's Scholar ship</b>	School of Public Health  Epidemiol ogy Program	Epidemiology / Economic Evaluation	Epidemiology and economic burden of diabetes complications in Canada (Potential/ Tentative)	September 2015- present
5	Supervisor	Emmanuel Dankwah	PhD	School of Public Health  Epidemiol ogy Program	Epidemiology / Health Economics	TBD	September 2015- present
6	Supervisor	Oluwakemi Awe	PhD	School of Public Health  Epidemiol ogy Program	Epidemiology / Health Policy		September 2015- present
	<b>External Examiner</b>						
7	External Examiner	Golam Md. Munir	MSc	Johnson- Shoyama Graduate School of Public Policy	Public Policy	Does Life Satisfaction Explain How the Body Looks? Understandin g Obesity	August 2013 <b>Completed</b>

						through Subjective Wellbeing	
	<b>Committee Member</b>						
8	<b>Cognate</b>	Abayomi Olaniyi	PhD	College of Medicine-Health Science Program	Program Evaluation	Needs Assessment for Tuberculosis (TB) and (HIV/AIDS) Co-infection control program in Saskatchewan	August 2012-present
9	Member	Virginia Lane	PhD	College of Pharmacy and Nutrition	Nutrition/ Public Policy	Dietary Intake, Physical Activity, Food Security and Nutritional Status of Newcomer Children in Saskatchewan	May 2011-Present  My involvement started in September 2014
10	Member	Lena Zimmo	PhD	Department of Community Health and Epidemiology	Community Health	Factors Influencing Qatari Women to Adopt Active Living Lifestyle	May 2014-Present
12	Member	Paul Jacob	PhD	School of Public Health	Health Service Research	TBD	Sept. 2011-Present
13	Member	Robert Nesdole	PhD	School of Public Health	Epidemiology / Health Program Evaluation	Evaluating Post-Acute Home Care Outcomes	Sept. 2011-Dec. 2014 <b>Completed</b>
14	Member	Silvia Bermedo-Carrasco	PhD	School of Public Health	Epidemiology / Health Inequities	Cervical cancer inequities in Colombia	My involvement started in Nov 2014-Present
15	Member	Thilina Bandara	PhD	Department of Community Health and Epidemiology	Health Inequities	Equity-based childhood immunization policy-making in urban centres	June 2014-Present

				ogy		across Canada: A comparative analysis	
16	Member	Muzi Li	PhD	School of Public Health	Epidemiology /Program Evaluation	Epidemiological studies in the mental health of children and adolescents: risk factors, diagnosis, treatment, prognosis, and intervention/prevention.	February 2015-Present
17	Member	Tamara Chambers-Richards	PhD	School of Public Health	Epidemiology /Program Evaluation	A Life Course Perspective of Parkinson's Disease in Saskatchewan	February 2015-Present
18	Member	Mahasti Khakpour	PhD	College of Pharmacy and Nutrition	Nutrition/Health Promotion/Health Policy	The Impact of Socio-economic and Cultural Factors on Household Food Insecurity of Refugees	September 2014-Present  (Involved since September 2015)
19	Member	Mustafa Andkhoie	PhD	School of Public Health  Epidemiology Program	Epidemiology /Biostatistics/ Policy	Epidemiology of prostate cancer in Saskatchewan	September 2014-Present  (Involved since June 2015)
20	Member	Mary-Ellen Walker	PhD	School of Nursing	Epidemiology /Biostatistics/ Policy	What is the influence of political environment on health promotion and prevention?	September 2014-Present  (Involved since September 2015)
	Chair						
21	Chair	Vivian Onaemo	PhD	School of Public Health	Epidemiology	Co-morbid substance abuse and mental health	Involved since September 2015

				Epidemiology Program		disorders	
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