Depression Amongst Cardiovascular Patients Living in the State of Qatar







Acknowledgement

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Ethical Approval

Process

Approved

Ethics

 approval from
 Hamad
 Medical
 Research
 Centre

 Ethics approval from The University of Calgary Conjoint Health Research Ethics Board – Canada

Approved

Background

- Similar to other countries in the world, cardiovascular diseases are the leading cause of mortality and morbidity in Qatar.
- Cardiovascular diseases accounted for 20% of the main causes of death in Qatar.
- Rapid growth, changing environmental and social conditions, and lifestyle changes may have affected the prevalence and patterns of cardiovascular diseases.





Table 1: Qatar Non Communicable diseases (NCD) Country Profiles

NCD mortality		
2008 estimates	males	females
Total NCD deaths (000s)	0.9	0.4
NCD deaths under age 60 (percent of all NCD deaths)	60.8	34.4
Age-standardized death rate per 100 000		
All NCDs	367.5	433.7
Cancers	101.1	84.3
Chronic respiratory diseases	26.2	30.6
Cardiovascular diseases and diabetes	179.8	239.3

Source: WHO: Non Communicable diseases (NCD) Country Profiles

http://www.who.int/nmh/countries/qat_en.pdf

Background

- Depression is associated with increased risk of coronary artery disease, and increased morbidity and mortality after myocardial infarction, CABG surgery, congestive heart failure, or mitral valve replacement.
- Studies have shown that 15 30% of cardiovascular patients experience depression after a cardiac event.
- Recognition of depression as a co-morbidity in patients with acute coronary syndrome (ACS) has the potential to improve patients' depression-related morbidity and benefits patients with underlying coronary disease.





Research Goal

We will investigate:

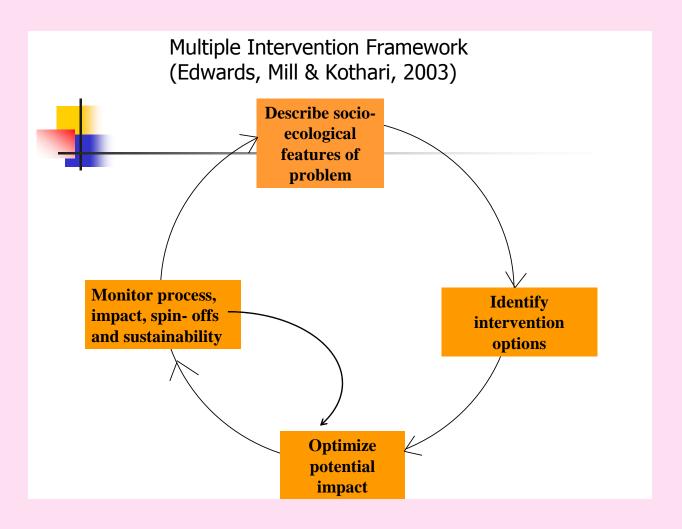
- (1) the prevalence and severity of depression among patients who have confirmed diagnosis of cardiovascular diseases.
- (2) how social, cultural, and economic factors contribute to the risk of depression and its management among cardiovascular patients.
- (3) formulate effective intervention strategies that are expected to increase awareness, prevention of and treatment for depression among cardiovascular patients, thus reducing cardiovascular diseases morbidity and mortality in Qatar.







Research Design



Ecological Conceptual Framework

- Individuals and their physical and socio-cultural environment of individuals.
- Health care behaviour and the physical environmental variables, intrapersonal, and other social determinants of health.
- Health promotion and interventions should occur at multiple social, cultural, and environmental levels.







Kleinman's Explanatory Model

- Individuals' explanatory models are derived from their knowledge and values, which are informed by their specific socio-cultural backgrounds.
- Providing effective health care requires that providers be able to elicit and recognize clients' beliefs and values with respect to their understandings of illnesses and treatments, and to negotiate these differing perspectives.







Mix-Methods Study (2012 – 2015)

Study 1: Quantitative study

Population-Based Survey of Depression Amongst Cardiovascular Patients Living in the State of Qatar

Study 2: Qualitative study

Exploring Depression Amongst CardiovascularPatients Living in the State of Qatar







Study 1:

Population-Based Survey of Depression Amongst Cardiovascular Patients Living in the State of Qatar







Research Questions

- (1) What is the prevalence and severity of depression among cardiovascular patients living in Qatar?
- (2) Is there a relationship between these patients' sociodemographic factors (such as income, occupation, employment status, education, nationality, marital status, age, gender, length of cardiovascular disease diagnosis, and spouse's educational level, employment status and occupation), and depression among these patients?







Methodology Study 1

Sites: Doha, Heart Hospital

4 cardiology units
(Emergency Department,
CCU, two (2) Cardiology
Floor units), and
Cardiovascular Out-patient
Clinic

Sample: convenience

Arabic women and men who are admitted to the Heart Hospital to one of the four (4) units: ED, CCU, and two (2) Cardiology Floor units, who meet the study's inclusion criteria, between January, 2013 and June, 2013 will be invited to participate in the survey

Data collection:

structured survey-face to face

Arabic

Female and male interviewers fluent in Arabic and English

3 days after admission

2 to 4 months after discharge

12 months after discharge?

The Beck Depression Inventory Second Edition (BDI-II).

Demographic questionnaire

Data analysis:

Descriptive statistics
Inferential statistics
SPSS version 20

Participants' inclusion criteria

- 1) Are in-patient for *at least three days* in one of the 4 cardiology units (chest pain unit, CCU, two (2) Cardiology Floor);
- 2) have symptoms or confirmed diagnosis of CVD/coronary artery diseases;
- 3) age 20 or over;
- 4) self identified as Arabic and speak Arabic;
- 5) are in stable condition with no physical discomforts, *are hemodynamicly stable*.

Study 2

Exploring Depression Amongst Cardiovascular Patients Living in the State of Qatar





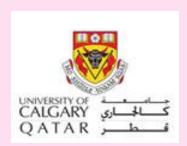


Research Questions

- 1) How do Arabic men and women cardiovascular patients seek help for mental health problems?
- 2) What is the process by which the decision to seek help for mental illness/depression is reached?
- 3) What are barriers and facilitators for Arabic men and women cardiovascular patients to seek mental health care/services?
- 4) What would be culturally and socially appropriate and effective intervention strategies for increasing awareness, prevention of, and treatment for depression in Arabic cardiovascular patients in Qatar?







Methodology Study 2

Sites:

Heart Hospital

Cardiovascular
Out-patient Clinic

Cardiovascular
Department and
Psychiatric
Department
(HMC)

Sample:

purposive

30 men,

30 women,

30 health care providers

Qualitative indepth interviews Qualitative data analysis

Nvivo 9

Participants' inclusion criteria

Men and women who

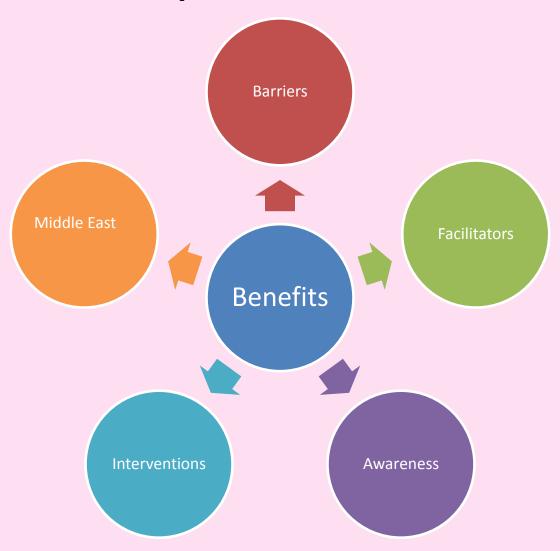
- 1) are out-patient at the Cardiovascular Out-patient clinic;
- 2) have confirmed diagnosis of CVD/coronary artery diseases;
- 3) have been identified as patients experiencing depression by this project survey (study 1);
- 4) age 20 or over;
- 5) Speak Arabic;
- 6) Born, raised and/or live in Qatar for more than 10 years
 (so that they would be able to give more in-depth information
 on Qatar's social, cultural, and health care context);
- 7) are in stable condition with no physical discomforts;

Participants' inclusion criteria

Health care providers who

- (a) provide direct services to patients in the 5 mentioned data collection sites;
- (b) are health care policy maker, cardiologist, psychiatrist, psychologist, primary care/ family physician, a nurse, or a social worker.

Anticipated Benefits



What is important for you?

- Timeline
- How?
- Who?







What are we asking from you?

- Specific time
- Room
- Staff informed
- Poster/brochures
- Encouragement







Questions?

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Your help is so much appreciated!

Thank you







