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# Innovative Teaching Methods for Capacity Building in Knowledge Translation (KT)

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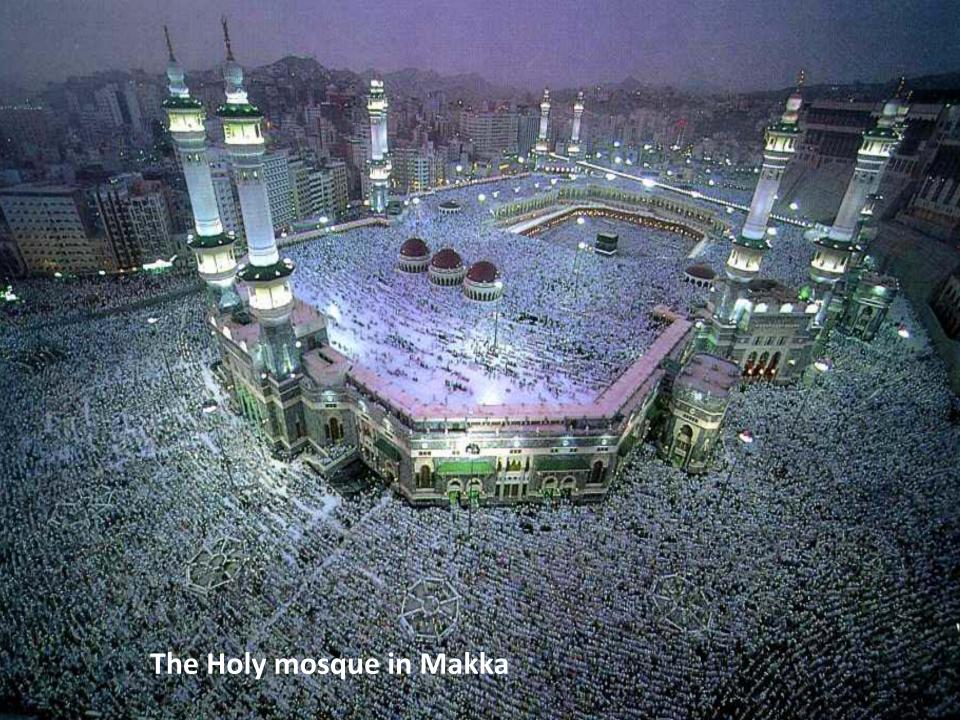
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'To the individual who devotes his/her life to science, nothing can give more happiness than when the results immediately find practical application. There are not two sciences. There is science and the application of science, and these two are linked as the fruit is to the tree.'



Louis Pasteur, 1871
 (from presentation by Ian Graham, 2008 CIHR
 Knowledge Translation Summer Institute)

# The clinical care gap

Ideal, evidence-based practice



**Current practice** 





### **Knowledge Translation (KT)**



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#### **Knowledge Utilization**

**Knowledge Dissemination** 

Knowledge Brokering

Knowledge

To Action

**Knowledg e Transfer** 

**Knowledge Exchange** 

Commercialization

Transforming Health Research Into Action





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### **Context**

- A week-long training of trainers' workshop in EBHC and KT.
- Participants: 18 Family
   Practitioners selected by the Ministry of Health from different regions of Saudi Arabia.









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### **Context**

- ✓ All of them attended EBM/EBHC workshops (participants)
- √ 47% facilitated small groups in EBM/EBHC workshops
- √ 47% frequently search the medical literature
- ✓ Self-rating of critical appraisal skills: Good>> Very good







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#### **Desired Outcomes**

- Improve the effectiveness of EBHC workshops beyond exclusive training for critical appraisal.
- Introduce the concept of KT as an important milestone in teaching EBHC.
- Highlight the problems of translating evidence into practice so they can address this issue in forthcoming workshops.



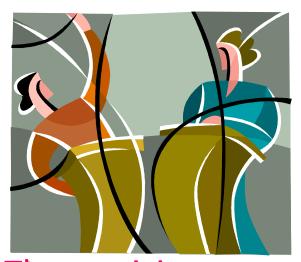


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### **Methods**

✓ Plenary session on KT as concept

#### **Debate**



#### **KT Project**



The participants were informed of the assigned tasks 1 week prior to the workshop





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#### Debate



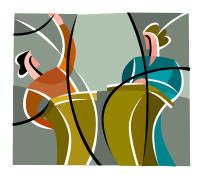
- ✓ Participants divided into 2 groups
- ✓ Given a statement:
  - One group to collect evidence to support the statement
  - Other group to collect evidence to refute the statement
- ✓ At the end of the debate the level of evidence will be evaluated.





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#### Debate



### **Statement 1**

"Critical appraisal workshops are not effective in changing the behaviour of health care professionals towards EBHC prcatice"

#### **Statement 2**

"Clinical practice guidelines are cookbook medicine"





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- ✓ The participants were presented with information based on level 1 evidence
  - Preconception care for women with diabetes
- ✓ Task: To convince the administrator(s) to implement this evidence in their medical facility using the KT cycle.

### **KT Project**







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### **Assessment**

### At the end of the workshop:

- Interview/direct feedback
- Questionnaire

#### **Three months later:**

Questionnaire





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### Results

Immediately...

- 100% strongly agree that KT is important
- 100% strongly agree that it is an essential complement to EBM/EBHC





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### **Results**

√ 80% thought they would use the KT project in their future workshops

√ 100% thought it was useful
and gave new paradigm in
their teaching of EBHC

# Immediately...

#### **KT Project**





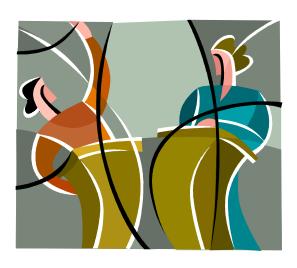


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### **Results**



#### Debate



- ✓ 2 participants thought it was useful
- √ 100% thought it was a difficult exercise
- "A demonstration by the tutors of a debate would have been helpful:
  - > How to run the debate
  - ➤ How to organize the evidence"





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#### **Results**

3 months later...

- √6/18 responded
- ✓ KT as a concept introduced by <u>half</u> of them in their EBM/EBHC workshops



### **Results**

### 3 months Sater...

		oleture
Statement	%	#
KTP helps in using evidence in building the argument for implementing high quality evidence	83	5
KTP in EBM improve the skills for formulate question, literature search, critical appraisal and implementation of evidence	67	4
KTP is the ultimate in teaching and learning EBM	67	4
KTP needs specific skills which I can develop	50	3
KTP is useful in improving communication skills	50	3
Introduced KTP as a method in teaching EBM?	17	1



# **Results**

### 3 months Sater...



Statement	%	#
Debates are useful in improving communication skills	83	5
Debates are useful in accepting the other opinion	83	5
Debates in EBM improve lit. search and critical appraisal	67	4
Debates need specific skills which I can develop	67	4
Introduced debates as a method in teaching EBM?	None	0





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# **Summary**

- √ The concept/need for KT was well received
- ✓ Willing to try new methods
- ✓ Needed more support
- ✓ Needed more time
- ✓ Further research is needed to validate these method for teaching KT in other contexts





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The jigsaw of KT

