Knowledge Translation and Evidence Based Practice

-Progress and Pitfalls

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Research -> practice
Research -> education
Research -> research
Progress?

- What progress has happened with you?
- What progress has happened at your institution?
- What progress has happened in your profession?
Progress

• Terms are familiar and are used
• Part of most health disciplines standards of practice
• Part of most health care institutions goals/vision
• In some job descriptions and performance appraisals
Progress

• Part of most institutional accreditation processes
• Part of most health care curricula
• Is being studied with both quantitative and qualitative research (and there is some specific funding)
Progress

- EBP is in the system!
Pitfalls?

-for you?
-for your institution?
-for your profession?
Pitfall - Conceptual Confusion

- Evidence based practice
- Evidence informed decision making
- Knowledge translation
- Research utilization
Terminology very inconsistent

Created wiki – > 100 terms submitted for knowledge translation

Compared hand search of key journals to electronic search

Conclusion – high, med and low discriminatory terms

Search terms of high discriminatory power:

Implementation
Adoption
Quality Improvement
Dissemination
Complex intervention
Implementation with research

Information
Evaluation
Utiliz/sation
Institutionaliz/sation*
Search terms of med discriminatory power:

Change
Organizational innovation
Innovation
Best practice
Diffusion of innovation
Translational research

Policy
Policies
Continuing education
Service innovation
Linkage and exchange
What Is Evidence-Based Medicine?

Clinical Judgment

Relevant Scientific Evidence

EBM

Patients' Values and Preferences

Sackett DL, et al., BMJ 1996; 312
Evidence-Informed Decision Making

Clinical state, setting, and circumstances

Patient preferences and actions

Research

Clinical Expertise

Health care resources

www.nccmt.ca
Now we have EB:

- Education
- Nursing
- Dentistry
- Veterinary science
- Physiotherapy
- Occupational therapy

- Research
- Engineering
- Policy
- Spiritual counselling
- Management
- Mental health
- .......

National Collaborating Centre for Methods and Tools
Centre de collaboration nationale des méthodes et outils
CIHR (2008) definition of Knowledge Translation

-a dynamic and iterative process that includes the synthesis, dissemination, exchange and ethically sound application of knowledge to improve the health of populations, provide more effective health services and products and strengthen the health care system.

http://www.cihr-irsc.gc.ca/e/45321.html#a2
Knowledge to Action Model

• based on a systematic review
• found 31 theories of planned action
• Did concept analyses of those 31 theories to arrive at model

Monitor Knowledge Use

Sustain Knowledge Use

Evaluate Outcomes

Select, Tailor, Implement Interventions

Assess Barriers/Supports to Knowledge Use

Adapt Knowledge to Local Context

Identify Problem

Identify, Review, Select Knowledge

Knowledge Inquiry

Synthesis

Products/Tools

Tailoring Knowledge

KNOWLEDGE CREATION
Pitfall -attitudes

- Lipservice
- We are doing it
- Just another bandwagon – this too will pass!
Evidence based vs Opinion based

Ask question

Find evidence

Make decision

Ask question

Make decision

Find evidence
Pitfall: underestimate time and resources required

- For training of staff (and managers)
- For implementation
- For evaluation
- For sustainability
Pitfall – education

• Teaching using evidence versus teaching process of EBP
• Curriculum overload
• Certification exams do not keep up with the evidence – teaching to the exam versus best practice!
Pitfall – research

• Demonstrated need for EBR

• Expectation for faculty research?
• Expectation for student research?
• State of the research – multitude of uncontrolled studies trying to answer question of effectiveness
Summary

• Tremendous progress

• Still work to be done!
Other references
