Implementing GRADE in a Canadian Health Authority

8th International Conference of EBHC Teachers & Developers ■

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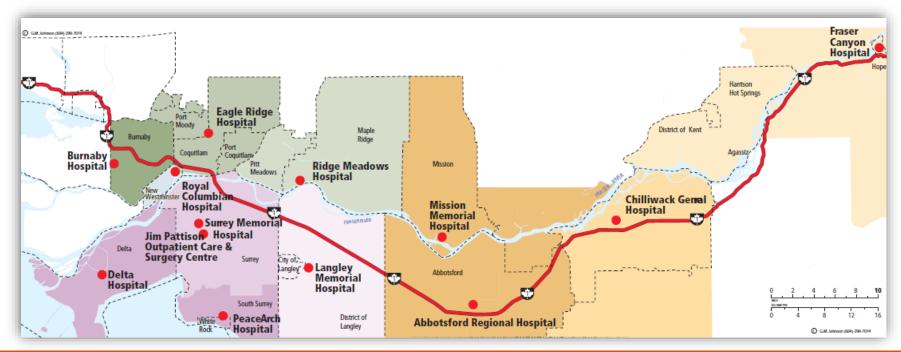


Background: Who We Are

- Publicly funded
- 1.7 Million population
- 22,000 employees
- 2,500 physicians



- 12 Hospitals
- 7,760 Residential Care beds
- Community Services: Public Health,
 Home Care, and Mental Health



Background: Choosing GRADE

Need

- Evidence-based research for Clinical Decision Support Tool (CDST) development
- Standardized & rigorous process to determine quality of evidence

Choice

GRADE (The Grading of Recommendations
Assessment, Development and Evaluation)
Canadian Agency for Drugs and Technology (CADTH)
Quality Assessment Tools Project Report 2012

Background: GRADE Approach

Step 1

Step 3

Step 4

Step 5

 Assign a priori ranking

Randomized controlled trials:

RATE HIGH

Observational

studies:

RATE LOW

• Downgrade/Upgrade

Step 2

- Assign final grade
- Consider factors affecting recommendations
- Make recommendation

Repeat Steps 1 to 3 for each critical outcome of interest

Downgrade for:

Risk of Bias - Lack of:

- a. Clearly randomized allocation sequence
- b. Blinding
- c. Allocation concealment
- d. Adherence to Intention-To-Treat analysis
- e. Validated outcome measures. AND
- f. Trial is cut short
- g. Large losses to follow up
- h. Outcome reporting is selective

Inconsistency

Indirectness

Imprecision

Publication Bias

Upgrade for:

Large consistent effect Dose response Confounders only reducing size of effect

Hiah Moderate Low

Very low

Balance of desirable & undesirable effects Cost-effectiveness **Patient Preferences**

Strong for Using Weak for Using Strong against Using Weak against Using

Adapted from: Goldet and Howick, Journal of Evidence-based Medicine, 6:50-54, 2013.

Aims: Case Study Analysis

Partnering with Fraser Health Library & CADTH

- 1. Fraser Health develops PICO questions and hands off to CADTH
- 2. CADTH conducts literature searches

Implementing GRADE

- **1.** The CDST policy
- 2. The GRADE algorithm
- 3. Educating interprofessional work teams

- **1.** The Survey

Identifying Need

- 1. Gaining Fraser Health Executive support
- 2. Piloting GRADE

Evaluating GRADE usage

- 2. Results

Methods

Applying Policy Analysis Frameworks

- The 'Case for Change'
 - Legitimacy, Feasibility, Support
- Sustaining Change
 - ADKAR for Change Management (Awareness, Desire, Knowledge, Ability & Reinforcement)

Conducting Formative Evaluation

- The Survey
- CDST development process
- Use of GRADE data collection tool

Results: The 'Case for Change'

Legitimacy Lack of prescribed process; **GRADE** pilot

Fraser Health Service Plan 2016-2017:

Fraser Health is committed to providing the best possible quality of care and service, which means the care people receive responds to their needs and will lead to the best health outcomes.

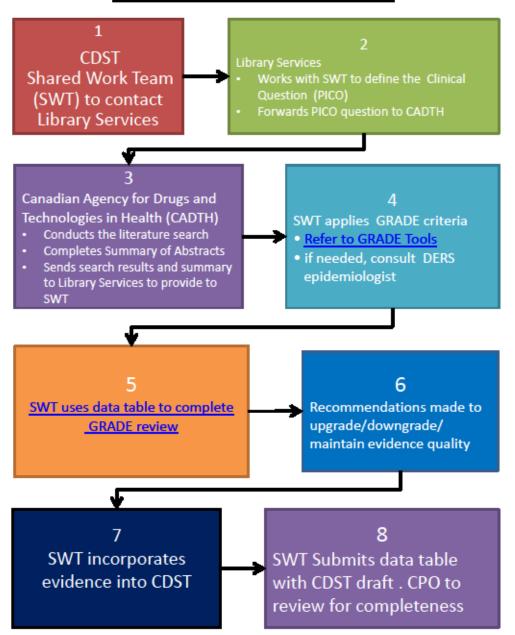
Feasibility GRADE Clinical Policy Office; Library Services; CADTH

CDST Policy for **GRADE** use

Support **Educated Key** Fraser Health Executive

Results: Sustaining Change

GRADE ALGORITHM



Clinical Policy Office, Dept of Evaluation and Research Services , 2013, v.1.0

Results: Sustaining Change

Awareness

Embedded in CPO on-line process;
77 therapeutic CDSTs

Reinforcement

Evaluation recommendations

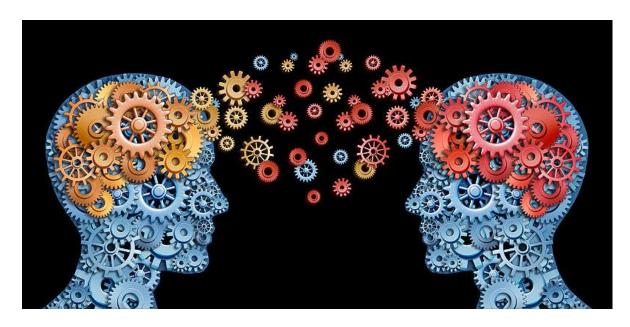
Desire

100% agree with necessity to evaluate evidence

Knowledge and Ability

Feedback: PICO consultation; CADTH; GRADE Tutorials/workshops

Other Results "Return on Investment"



Benefits beyond Fraser Health:

All literature search results posted as open access on CADTH website

Limits

- Evaluation design limited to survey because of time and resource restrictions
- # of evaluation survey respondents low;
 only 53% had applied GRADE
- Effect of respondent memory & organizational demands on survey respondents' replies

Bottom Line

Were professional behaviours changed?

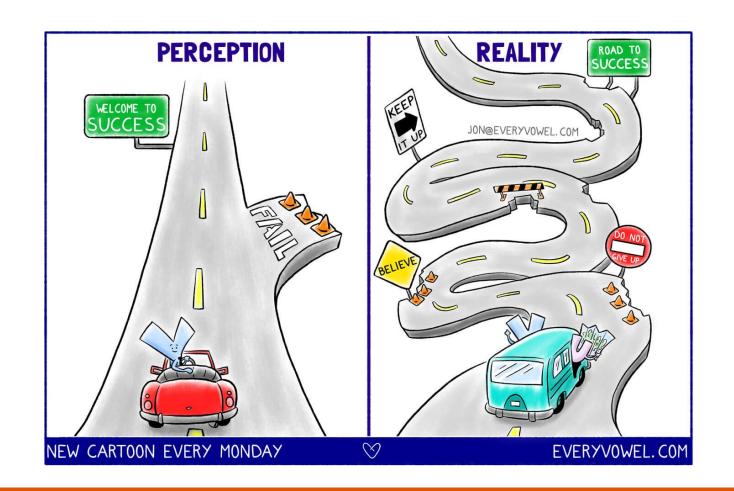
- Increased appreciation of GRADE's value for RCTs/observational research
- Increased appreciation of need to use a systematic approach for evaluation of evidence rather than clinical judgement

What were the obstacles?

- Lack of clear communication re applicability
- Lack of time to learn GRADE
- Lack of staff with trained expertise to teach GRADE

What mitigation strategies?

- Revised Algorithm
- One to one tutorials
- Potential Fraser Health policy



Thank You!



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