Optimizing the presentation of your research metrics

William Ghali – Scientific Director
Panel – Lynn McIntyre, Christine Friedenreich, Braden Manns, Cheryl Barnabe
The grant funding game:
Strategies that might help your funding applications

William Ghali
Scientific Director
(with the Returning Panel)
The IPH Grant Strategy Series

• Introductory session
• Revision & resubmission
• Grant budgets
• Knowledge Translation
• Peer review: do it! (well...)
• Programmatic grants
• The “Beautiful Grant”
• The long game (career planning)
• And today...
Optimizing the presentation of your research metrics

William Ghali – Scientific Director
Panel – Lynn McIntyre, Christine Friedenreich, Braden Manns, Cheryl Barnabe
Personal research metrics:  
For what initiatives?

- Career awards
- Team grants
- Foundation scheme
Career Award Applications

• Pursue them when you can
• Solidify your position
• CIHR (New Investigator and some Chairs)
• Canada Research Chairs
• Disease Foundations
• New Investigators within team grants
• Some other opportunities
Team Grants

• Various agencies:
  – AI-HS
  – CIHR (including SPOR)
  – Foundations

• Metrics on individuals

• Metrics on the team

• Proving that the whole is greater than the parts
CIHR Foundation Scheme

- CIHR’s new funding model
- Our IPR team learning +++
- Anxiety for many +++
CIHR Foundation Scheme

- CIHR’s new funding model
- Our IPR team learning +++
- Anxiety for many +++
- Great opportunity...for some
- About YOU & your projects
- Leadership criteria (key factor)
- Training and partnerships
- New investigator stream
‘Metrics’?
‘Metrics’?

- The Greek word *metron*, meaning “measure,” gives us the root **metr**.
- A *thermometer* is an instrument that measures temperature.
- A *diameter* is the measurement across the center of a circle.
- The **metric** system is a system used for measuring size, weight, and volume.

(Merriam-Webster)
‘Metrics’?

- Performance metrics measure an organization's activities and performance.
- Metrics may focus on the performance against customer requirements and value.
Research Impact Assessment

• An emerging scientific discipline
• Dr. Kathryn Graham
• Significant interest at:
  – AI-HS
  – CAHS
  – CIHR
• Essential for organizations
• Essential for individuals
O’Brien Institute RIA

RESEARCH IMPACT ASSESSMENT
2015

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Institute for Public Health
Metrics Report

First meeting of the International
Scientific Advisory Group
September 30/October 1, 2013

September 19, 2013
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Fig 24. Example of ‘altmetric’ data to assess public uptake of research

Stories of Impact – RESEARCH

Stories of Impact – STRATEGIC ENGAGEMENT
The traditional metrics

• **Publications**
  – Numbers of papers
  – Journals in which published
  – Bibliometrics
    • # of citations
    • H-index
    • i10-index
    • Others?
  – Discipline-specific caveats

• **Invited presentations?**
  – Notable ones? (e.g. plenary)
The traditional metrics

• Grants
  – Total dollars as PI, coPI
  – Agencies
  – Types of grants
  – International grants?
    • NIH?
    • EU?
  – Roles when not PI?

• Contracts?

• Operational dollars?
Knowledge generation

• News media appearances
• Public engagement
  – E.g., Scientific Cafés
• Partnership with agencies
• Partnership with decision-makers
• Stories of impact
• Influence on policy
Trainees

- Describe in depth:
  - Numbers
  - Types
  - Their funding success
  - Their publications
  - Their awards
  - Their career landings

- Convey enthusiasm*
- Convey generosity*
Pitfalls

• Accuracy in details
• Don’t embellish
• But also don’t undersell
• Balance across categories
• Need a narrative:
  – Don’t just list things
  – Personal journey
  – Passion
• Optics of plausibility
• Stage appropriateness
Best of the Best