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
Table of Contents

1. O’Brien Institute at-a-glance...........................................................................................................4

Membership

Fig 1. Growth in the number of members..............................................................................................5
Fig 2. Main affiliation of members.........................................................................................................6
Fig 3. Dual Membership.........................................................................................................................7

Support programs

Fig 4. Internal Review Program.............................................................................................................8
Fig 5. Seminars and Events Attendance...............................................................................................9
Fig 6. Intra-Institute Networking.......................................................................................................10
Fig 7. Catalyst Program Allocations Since July 2014......................................................................11
2. Research Indicators.........................................................................................................................12

External Research Awards
Fig 8. Number of CIHR OOGP awards .................................................................................. 13
Fig 9. Number of OOGP applications and successes ................................................... 14
Fig 10. CIHR Foundation Scheme Stage 1 successes .................................................... 15
Fig 11. CIHR non-OOGP awards over time .................................................................... 16
Fig 12. National ranking of UofC CIHR OOGP awards ........................................... 17
Fig 13. External research revenue held by members ................................................... 18
Fig 14. Recognition of O’Brien Institute members .......................................................... 19-21

Bibliometrics
Fig 15. Research Publications .......................................................................................... 22
Fig 16. Publication distribution ......................................................................................... 23
Fig 17. H-index Distribution ........................................................................................... 24
Fig 18. Number of articles by members ........................................................................ 25
Fig 19. Sixteen exemplary research publications members ........................................... 26-28
Fig 20. Number of publications coauthored with other members ................................ 29
3. **Impact Indicators**

Fig 21. Members in the News

Fig 22. O’Brien Institute research impacting the community

Fig 23. W21C Outputs 2010-2014

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