Methodological implications for measuring outcomes of complex interactions like IPE and interprofessional practice (IPP)

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Conceptual Framework of Relationship between Interprofessional (IP) Interventions and Outcomes

Organizational Context

Person-Centred Care

Inter-professional Interventions

Systems Outcomes

Health Workforce Outcomes

Quality of Workplace

IP Collaboration IP Care

IP Care

Quality of Patient Care

Patient Outcomes

Suter et al., 2013

Attitudes, skills, knowledge
Outcomes of IP Interventions

Interprofessional interventions

Outcomes

Level 1
- Attitude, knowledge, skills
- IP Collaboration/IP Care

Level 2
- Quality of patient care
- Quality of workplace

Level 3
- Patient outcomes
- Health workforce outcomes

Level 4
- Systems outcomes
Level 1: IP Collaboration/ IP Care

Attitude, knowledge, skills

IP Collaboration / IP Care

- Role clarity
- Communication
- IP leadership
- Questionnaires
- Observations – video analysis

Outcomes
- Collaborative care processes (IP rounds, integrated plan of care)
- Working to full scope

Tools
- Questionnaires, interviews
- Observations, check lists
- Time-function analysis

CIHC 2012 tools inventory:
- 146 tools reviewed of which:
  - 64 tools for attitude
  - 20 tools for knowledge, skills
  - 34 tools for behaviour
Level 2: Quality of patient care & quality of workplace

### Quality of patient care
- Patient experience
- Adverse events
- Readmissions
- Length of stay
- Care coordination

### Quality of workplace
- Leadership support
- Common reflections
- IP learning culture
- Workload
- Student practice education experience

### Outcomes
- HCAHPS, Picker
- Administrative data
- Interviews

### Tools
- Questionnaires
- Interviews
Level 3: Patient outcomes & health workforce outcomes

**Outcomes**

- Health related quality of life
- Health functioning
- Health outcomes

**Tools**

- Questionnaires
- Functional scales
- Clinical data

**Patient outcomes**

**Health workforce outcomes**

- Recruitment
- Student career choice
- Retention, sick time, absenteeism
- Optimal workforce utilization
- Productivity

- Administrative data
- ??
Level 4: Systems outcomes

- Return on Investment on IPE and IPC

- Conceptual RoI framework

(Nason E. 2013. The ROI in Team. Toronto, ON: Institute on Governance.)
Return on Investment

Nason E. 2013. The ROI in Team. Toronto, ON: Institute on Governance.
Issues with measuring outcomes of IP interventions

Quality of Workplace

IP Collaboration IP Care

Health Workforce Outcomes

• Optimal workforce utilization and productivity poorly defined and measured
• Issues of attribution

Return on Investment

• RoI framework is at conceptual level
• Limited case studies to test applicability of the framework

Patient Outcomes

Quality of Patient Care

Inter-professional Interventions

- Attitudes, skills, knowledge
- Lack of valid/reliable tools to measure collaborative behaviours/IP care processes
Recommendations for future focus

#1 Focus on valid and reliable tools to measure collaborative behaviour and IP care processes to ensure that improvements in IP attitude, knowledge and skills translate into practice change

#2 Focus on defining productivity and optimal workforce utilization and how to measure them as they are essential components for calculating Return on Investment

#3 Apply Return on Investment framework to more fully understand the benefits of IP interventions
Contact

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References
