


Proposal for an AWI APRU Public Health Research Collaboration

Johns Hopkins University
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Reducing Preventable Cardiovascular Disease 2010-2015

An Association of Pacific Rim Universities-
Health Systems Partnership

The mission and objective

- Given the enormity of the challenge to that health posed by non-communicable diseases, principal among which are the cardiovascular disorders, the Group sets as a goal to help stabilize the mortality and morbidity from CVD among Pacific Rim nations within ten years.



The University of Sydney



The story so far...

Tokyo June 2008

- APRU resolved to make public health, and NCD control, one of its principal activities, climate change being the other. Early proposals presented

Singapore November 2008

- Several proposals discussed for CVD control discussed further
- USyd extended its suggestion for an international collaborative research program to reduce by 2%



The Story so far

San Francisco February 2009

- Four proposals considered further. Further details for the four proposals requested with view to seeking external funding support.

Baltimore June 2009

- Agreement on design of project, acceptance of multiple strategies appropriate to local settings, and to adding value through earnest collaboration and rapid sharing of insights. Funding essential



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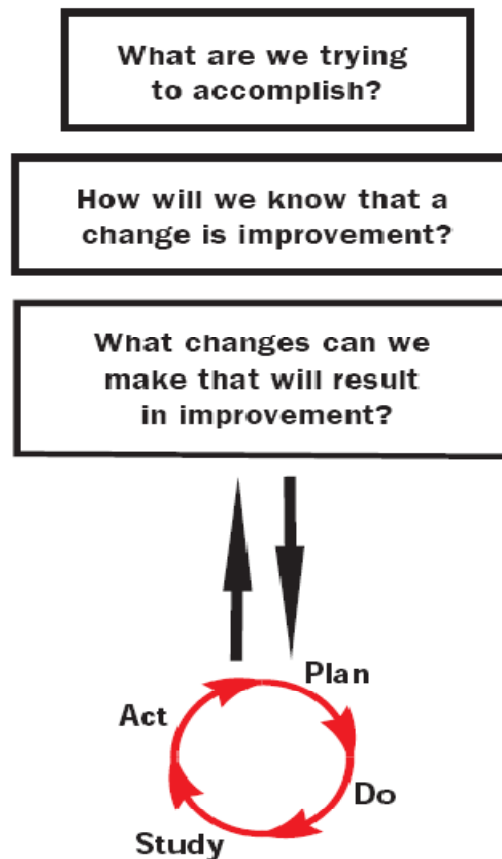
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The Model – Institute for Healthcare Improvement 2003

Figure 3. Model for Improvement



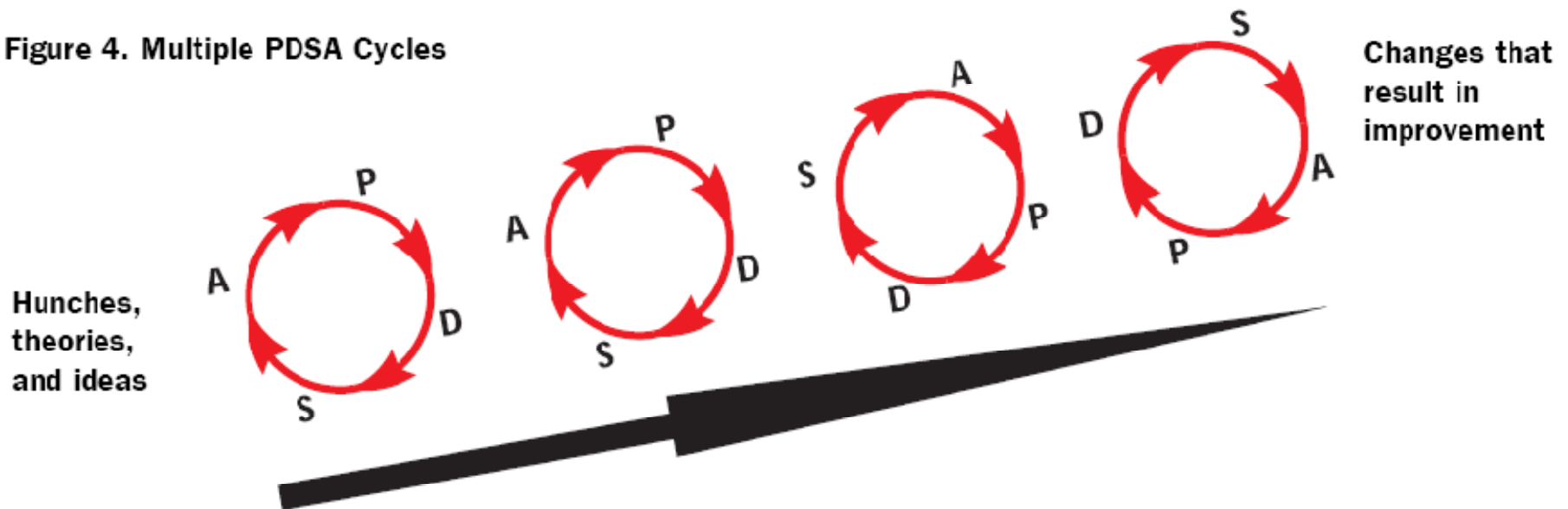
Institute for Healthcare Improvement Breakthrough Series (BTS)

- Introduced by the US Institute for Healthcare Improvement in 40 institutions – last 12 to 40 months
- Collaboratives
 - Used in US, UK, Australia:
 - ED flows
 - End of life care
 - Use of blood products
 - Reducing pressure ulcers.



Wheels of Progress!

Figure 4. Multiple PDSA Cycles



Institute for Healthcare Improvement - 2003



Northern New England Cardiovascular Disease Study Group

- 1987-1993
- 23 cardiothoracic surgeons from five centres aimed to improve hospital mortality rates from CABG
- Result: 24% reduction in in-hospital mortality associated with CABG.



Other examples

- ❑ Increase in no. of days between neonatal deaths and decrease infection rates in the Vermont Oxford Network of NICUs
- ❑ Reduction of pain in residents of 21 nursing homes
- ❑ Improvements in asthma and diabetes care, and the appropriate use of lipid lowering drugs
- ❑ Improvements in patient self management and education across asthma clinics.

Lessons from Collaboratives

- Success of teams depends on
 - Goodwill among teams and team members
 - Ability to learn and apply quality methods
 - Strategic importance to their home organisations
 - The culture of home organisations
 - Type and degree of management support.

- Quality collaboratives can be temporary and powerful learning organisations that motivate, and provide knowledge, skills and support.

- Ovretveit J. et al., Quality collaboratives: lessons from research. *Qual Saf Health Care* 2002; 11:345-351





Project elements

1. Decide to proceed
2. Invite countries with APRU members to participate
3. Determine objectives interventions and evaluation strategy
4. Decide on project governance model
5. Seek project funds to:
 - Fund project governance and management group
 - Fund project funding proposals in participating countries
6. Establish collaboration and learning mechanisms
7. Foster implementation
8. Engage in continuous evaluation, feedback and learning



Outcomes

- Substantial improvement of uptake of evidence based practice across multiple institutions and systems in primary prevention
- Improved health outcomes for patients and communities
 - Reduced risk factors for CVD
 - Better treatment outcomes for CVD
 - Better survival for CVD patients
 - Cost savings to communities.

Estimate of initial funding requirement

- Seed funds to develop proposal for international funding agency/ies
- Proposal for years 2010-2015
 - Central funding + country specific for protocol development, infrastructure, initiating work in the participating centres and countries
 - US\$200,000 pa
 - Learning sessions, meetings, videoconferencing etc to maintain momentum and enthusiasm and sharing!