Operations Research and Policy Change: Can we actually make a difference?

Sarah Gimbel Seattle, WA July 30, 2010

Overview of Presentation

Brief introduction to policy-related elements of research

 Examples of where research has failed and succeeded in impacting policy

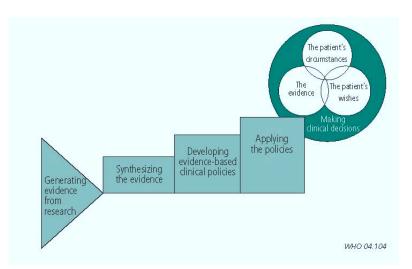


Why policy?

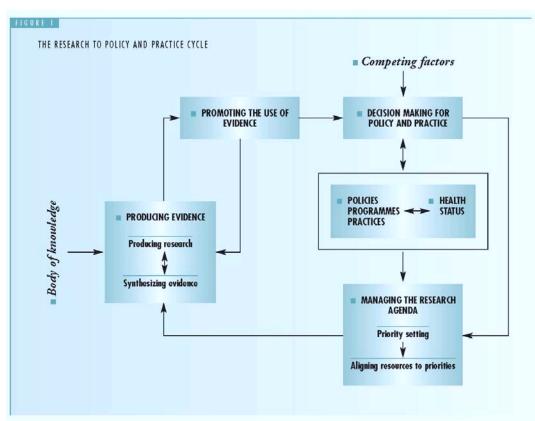
- If I'm a researcher, why do I have to consider policy?
 - Policies are a necessary step for health program implementation of proven interventions
- Goal of research is not the results, but to lead to change
 - Evidence base for decision making
 - Tool to improve operations



Ideal policy cycle



Haines A, Kuruvilla S, Borchet M. Bull WHO 2004;82:724-732



Alliance for Health Policy and Systems Research. Strengthening-health systems: the role-and-----promise of policy and systems research. Geneva, 2004



What do I need to consider?

- Is policy setting a linear, uni-directional process?
- In policy context, data don't stand alone



Research as a problem-solving tool that depends on the policy context



- Is it the "right job"?
- Is it the right tool?
- Does everyone know how the tool works?
- Are there resources to run the tool?
- Does it make the job easier?



Research/Policy Linkage Examples

- Traditional birth attendants (failure)
 - Evaluation of established program
- Syphilis screening in pregnancy (success)
 - Constant operations research



Evaluation of Impact of Traditional Birth Attendants (TBAs) in Rural Mozambique (1)

- With donor support/pressure, the MOH implemented a TBA program to reduce maternal/neonatal mortality
- Over 8 years, a NGO trained >300 TBAs; support included supervision, equipment, refresher courses
- Post training surveys showed that TBAs had improved knowledge of obstetric emergencies and skills to manage them
- An evaluation was planned to assess whether the program had met its initial goals



Evaluation of Impact of Traditional Birth Attendants in Rural Mozambique (2)

Design

 retrospective cohort study comparing maternal and newborn outcomes in 40 communities with trained TBAs and 40 with non-trained TBAs

Women interviewed on

- Type of provider during last pregnancy/birth
- Outcome of pregnancy/childbirth for mother/child



Evaluation of Impact of Traditional Birth Attendants in Rural Mozambique (3)

Results:

- Access to a trained TBA
 - > 43% birthed at health facility; 33% birthed with trained TBA; 24% birthed with an untrained person
- 2. No access to trained TBA
 - > 58% birthed at health facility; 42% birthed with an untrained person
- 3. Access to a health facility with a midwife
 - 77% birthed at a health facility; 22% birthed with an untrained person
- Mortality rates similar across type of birth attendance





Preference for future births

Experience		Group 2 (no trained TBA)	Group 3 (HF with midwife)	Total weighted average
% prefer health facility for next birth	61%	83%	93%	79%

Policy eventually shifted over time away from the TBA and towards improving maternities

5 years after study...



TBA OR to Policy

- Right tool, right question, but wrong timing
 - ▶ TBA training initiated despite evidence on efficacy
 - Key decision-maker rejected it because of her investment in the program and donor support
 - Insufficient engagement of the right people from the outset
 - Findings not adopted or integrated until there was a change in staff at the MOH level
 - And global transition away from TBAs

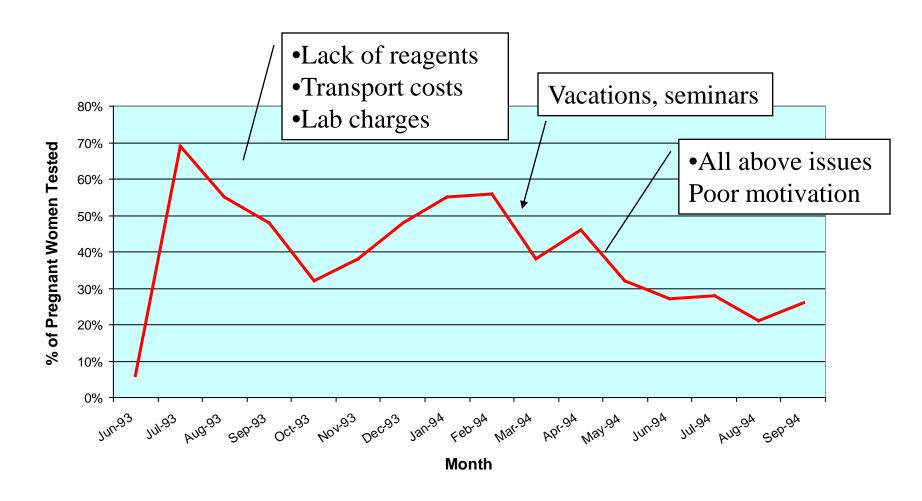


Syphilis Screening in Pregnancy (1)

- Unequivocal evidence on efficacy of intervention
- ▶ 1978: Universal antenatal syphilis screening made national policy in Mozambique; sporadic & uneven screening
- ▶ 1993: Prenatal Syphilis Screening Feasibility Study
 - I I health facilities, training, development of a facility registry book, externally purchased RPR
 - Rapid increase in RPR screening (<5% to 70%)</p>
 - Advocacy:
 - Presentations (provincial & national level conferences, Minister of Health, Council of National Directors)
 - Article and editorial in national medical/health journal
 - Multiple informal meetings with MOH, UN, Bilaterals



Pilot intervention, 1993-94 11 Health Posts - Manica Province, Mozambique





Syphilis Screening in Pregnancy (2)

- 1996: Syphilis screening made a key element in national
 5-year plan
 - Provincial Medical Director in Manica province adopted program as a priority
 - Increased total screening rate of pregnant women to 50-60% in health facilities with laboratories (one province)

Syphilis Screening in Pregnancy (3)

- 1998: Syphilis screening extended to all districts in neighboring province
 - Percentage of ANC attendees tested increased to 80% at the health facilities with laboratories
 - Over 7,000 RPR positive women identified that year (~70% treated)
- ▶ 1999: Sustained results with no donor input



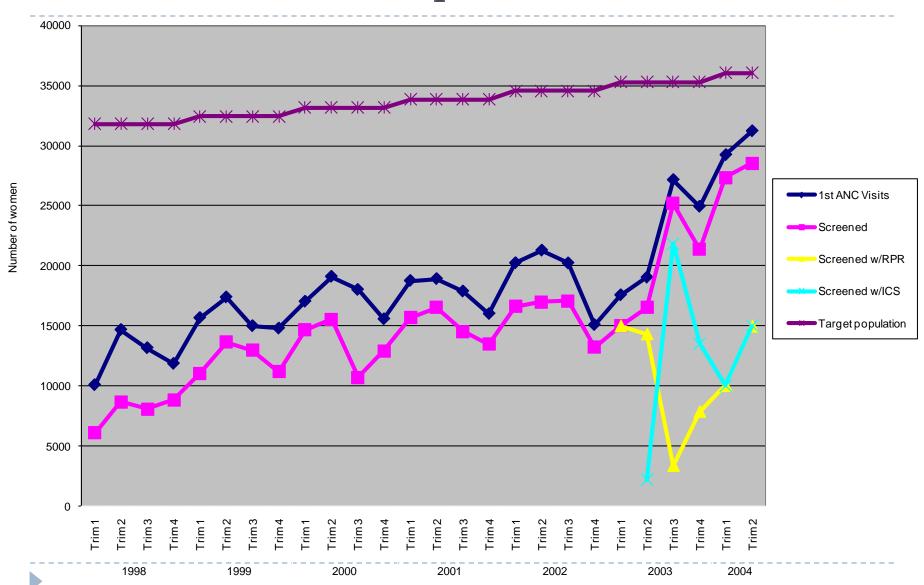


Syphilis Screening in Pregnancy (4)

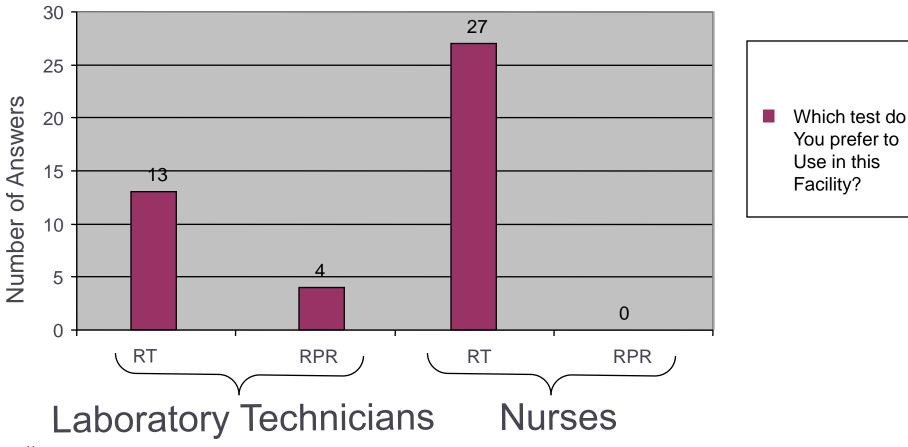
- 2000: Free treatment for pregnant women as a national norm & MCH nurses empowered to treat RPR+
 - Treatment rate increased to 90%
- 2003: Introduction of rapid treponemal Immunochromatographic strip (ICS) test pilot project (with MOH/Gates Foundation)
 - Number of facilities screening increased from 45 to 132 (100% of those with ANC)
 - Percentage of ANC attendees tested increased to 93%
 - Over 80,000 women tested annually
 - Over 8,000 syphilis positive women identified per year (96% treated)



Syphilis Screening in Pregnancy Central Mozambique, 1998-2004



Syphilis Screening in Pregnancy (5) Health Worker Satisfaction Survey



"Takes less time..." "...Can be used in health facilities without laboratories..." "...Is easy to read..." "...Doesn't require much blood..." "...Reduces the waiting time of the mothers..."



Syphilis Screening in Pregnancy (6) Cost-effectiveness analysis of RPR/strip test (US\$)

		Clinics
	Clinics with	without
	laboratories	laboratories
RPR women screened	\$0.85	
RPR positive women screened and		
treated	\$12.25	
RPR active cases screened and		
treated	\$13.19	
ICS women screened	\$0.98	\$0.96
ICS positive women screened and		
treated	\$13.45	\$14.76
ICS active cases screened and		
treated	\$13.90	\$15.26

Syphilis Screening in Pregnancy(7)

- Rapid test has become national policy
 - ▶ For use in facilities without laboratories
 - Procured directly by the MOH



Syphilis Screening in Pregnancy (8) Determinants of Success

- > Constant advocacy
- Close partnership with MOH
- > 10 years of frequent operations research to:
 - > Implement policy
 - > re-shape policy
- > Right tool for the right job at the right time
 - > Problem was a priority of policymakers
 - > Tests were available and cheap (RPR), or innovations were appropriate, responded to need, and made life easier (rapid test)



How does this apply to you?

- Your challenge is to figure out how to maneuver data most effectively in your system
 - Who to engage?
 - What dynamics are present?
 - What constraints to consider?



Who to engage?

- Who defines the problems & priorities?
- Whose policy is it?
- ▶ Role of researchers, clinicians, managers
- Usually differs by health system level, domestic vs. international

Careful of frequent changes



Who to engage → Consider Level of Involvement

Ministry of Health	 Who's in charge of the program? What's the scope of change? How centralized are decisions? 	
	◆Other government involvement?	
Local Health	◆Role in defining policy?	
Authority	◆Geo-political considerations?	
Health Facility	◆Often the best ideas	
Community	•Who are true leaders? Political structures? Religious leaders? Consensus leaders?	
	♦Who are the beneficiaries?	

What dynamics are present?

- Place research evidence within complicated, locally dependent dynamics
 - Personal agendas?
 - Interests?
 - Personal & professional histories?
 - Researcher/policymaker networks?



What Constraints to Consider?

- Contextual factors define parameters
- "Political Will" (what is it?)
- Resource constraints
 - Where (who) do they come from and what's the probability they will change?
 - Donor priorities
 - SAPs, wage bill caps
- Process constraints budget & planning process, procurement systems



Balance the needs of multiple stakeholders!



Constraints → Consider Level of Involvement

Ministry of Health	 National priorities Equity between regions Budget process Procurement systems
Local Health Authority	 Local priorities Management burden Procurement systems Infrastructure requirements
Health Facility	 Human resources Supervision capacity Working conditions & satisfaction Material resources
Community	◆Awareness◆Acceptability◆Affordability & access

You can do it!



