

TRENDS IN EQUITY HEALTH INTERVENTIONS AND STATUS

Aluísio J D Barros
International Center for Equity in Health
Federal University of Pelotas





We already know this!



- Inequality is the measurable dimension of health inequity studies
 - Differences, gaps, variation
 - Of health status, exposure to risk factors, access to and utilization of health care services
 - Across several dimensions (or stratifiers)
 - Wealth, ethnicity, gender, education, age
- Absolute and relative
 - When comparing groups one can measure
 - Distance = absolute, by difference
 - Ratio = relative, by division



Inequality – absolute

Will use the slope index of inequality (SII):
a regression-based estimate of the difference

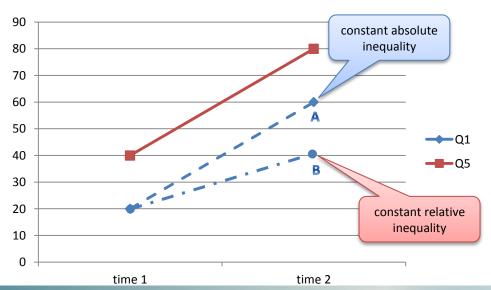
Absolute inequality

Remains constant when all groups increase amount (+ or – Y)

Relative inequality

Remains constant when all groups increases
 same factor (x Y)

Will use the concentration index (CIX):
a Gini-like measure of concentration of intervention coverage across the population





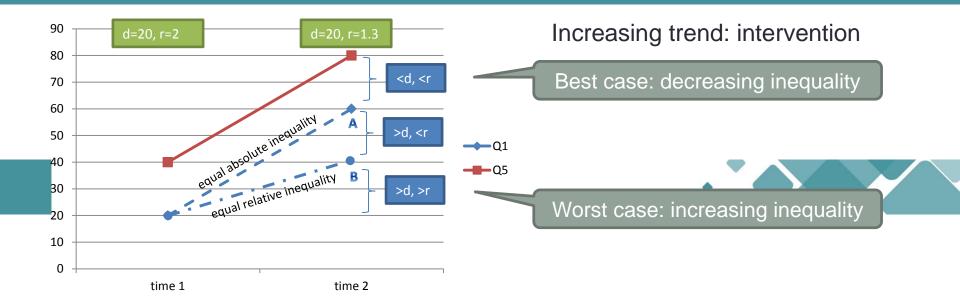
Survival

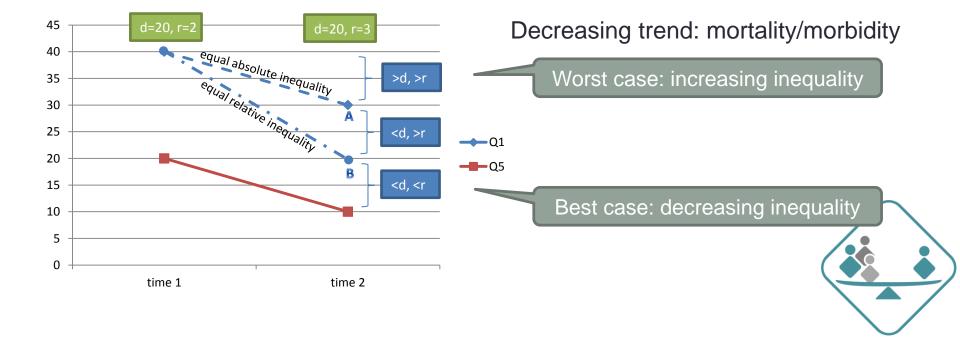
Trends in inequalities

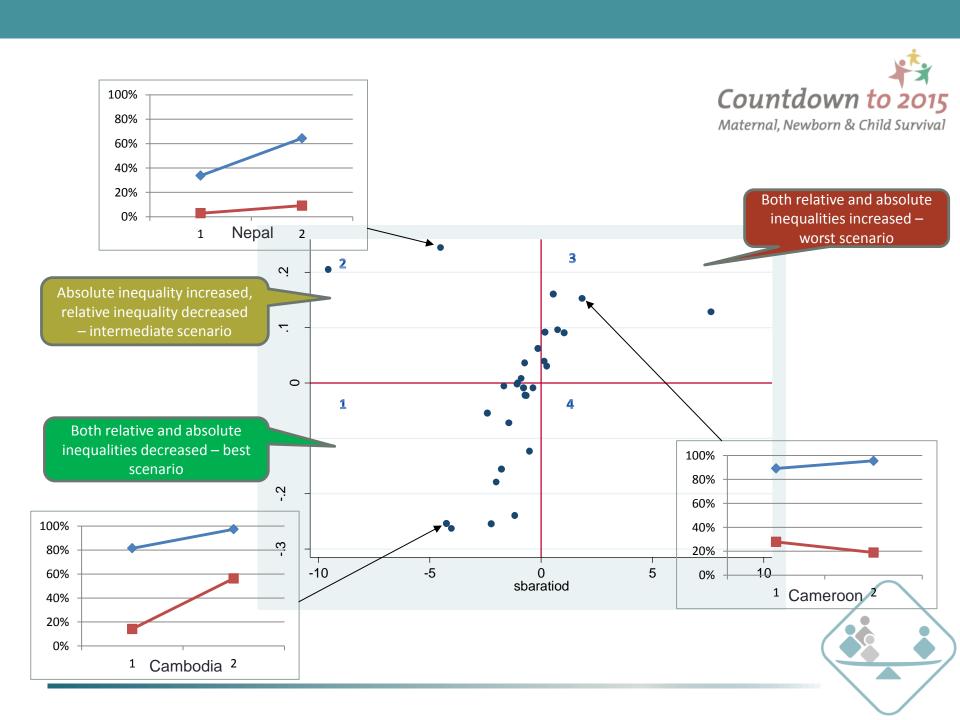


- How to assess change in inequalities?
- Frequently, decreasing absolute and increasing relative inequality seen as contradictory
- We show that there is pattern
 - Both indicators must be used together to check what is happening
- The overall trend of the outcome
 - Increasing or decreasing
 - Makes a difference here

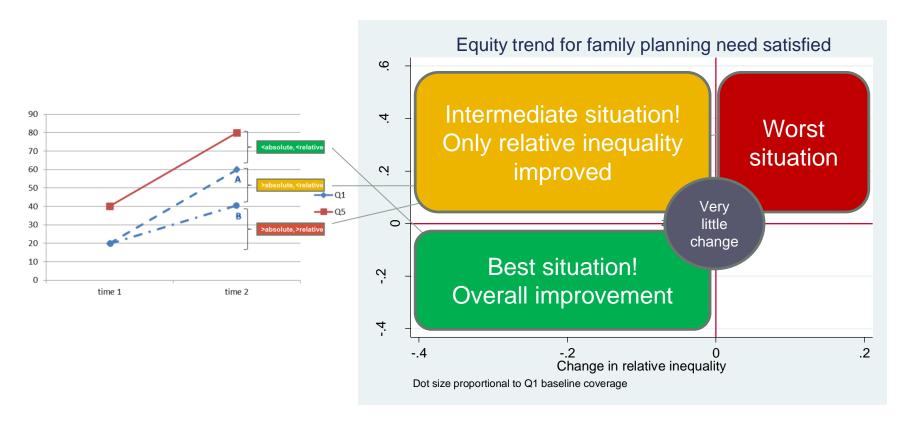








Trend plot — how to interpret? Countdown to 2015 Maternal, Newborn & Child Survival

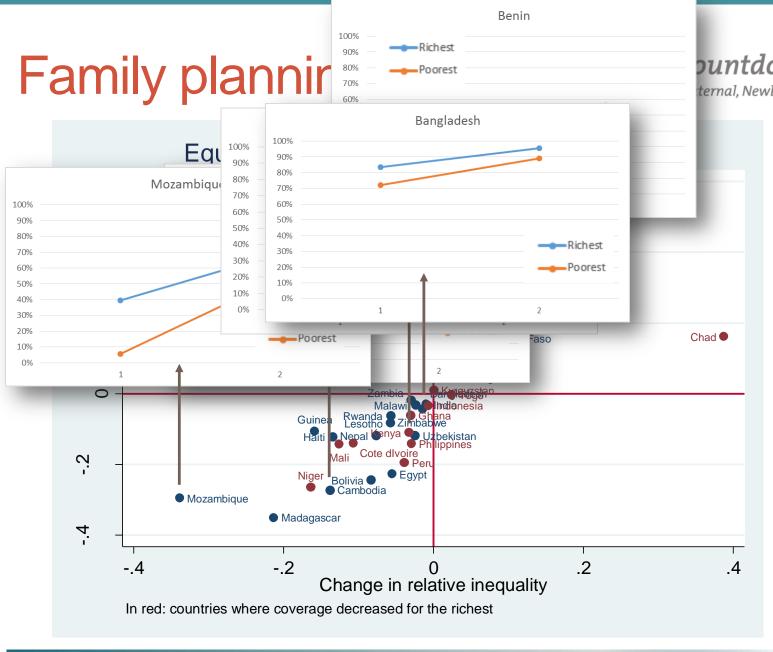




Equity trend analysis



- Results for 36 countries
 - With two surveys about 10 years apart
- Family planning need satisfied
 - % women using contraception among those in need
 - Complex indicator based on many variables, some very subjective
 - Difficult to calculate
 - Makes more sense than contraceptive prevalence
- Antenatal care 1+ visit with skilled provider
 - At least 1 consultation with skilled provider during pregnancy
- Skilled birth attendant
 - Skilled attendant at child birth
 - Skilled = doctor, nurse or midwife (with some local adaptations)





ternal, Newborn & Child Survival



Let's see the details



country	year	cov. all	cov. Q5	CIX	SII
Benin	1996	38.9%	46.9%	0.090	0.214
	2006	36.3%	55.9%	0.198	0.417
Ethiopia	2000	18.7%	48.3%	0.431	0.472
	2005	30.6%	60.8%	0.333	0.571
Mozambique	1997	20.0%	39 7%	0 388	0.464
Mozambique		58.1%			

Both CIX & SII increased

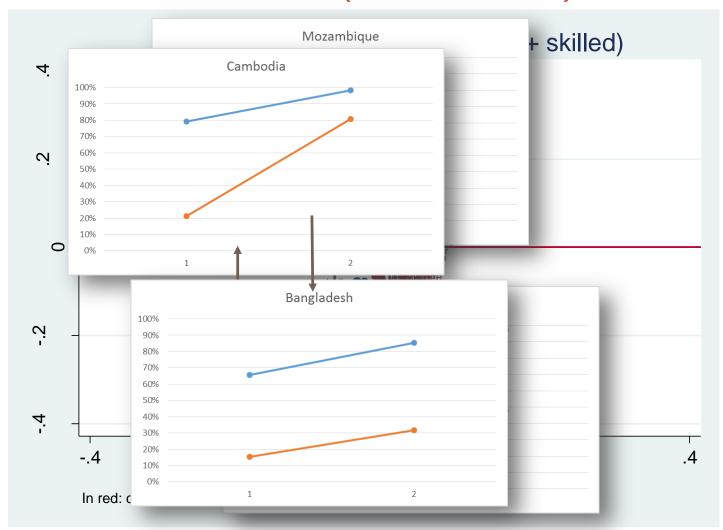
CIX decrease, SII increased

Both CIX & SII decreased



Antenatal care (1+ skilled)

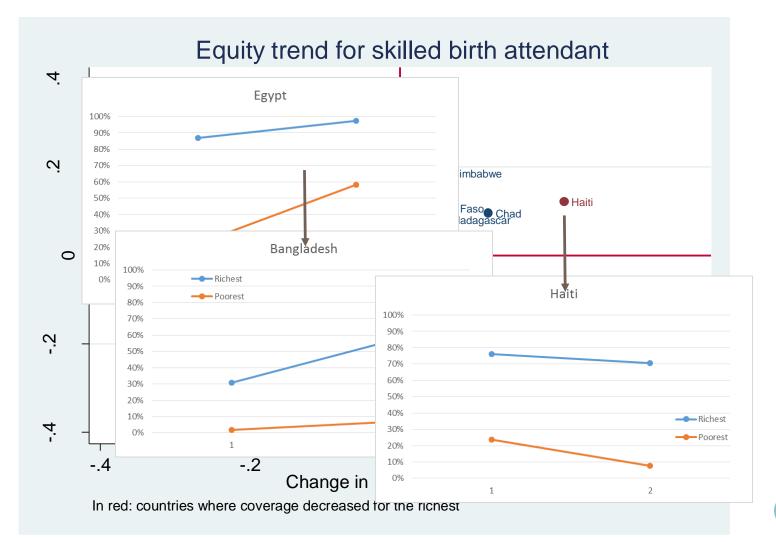






Skilled birth attendant







Best performing countries in terms of white survival improving equity for six RM interventions

FPS	СРМТ*	СРМО*	ANC1	SBA
				Benin
Bolivia	Bolivia	Bolivia	Bolivia	
Cambodia	Cambodia	Cambodia	Cambodia	
	Egypt	Egypt	Egypt	Egypt
	Haiti			
Madagascar	Madagascar	Madagascar		
Mozambique				
Niger				
			Peru	Peru
		Zambia		

^{*} Not presented in the graphs



A few conclusions



- Equity may seem complicated to assess
 - But it is not, if you understand the concept and the measures
- Most countries studied managed to improve overall coverage
 - Around 80% of them
- In contrast, only a handful of countries showed improvement in equity for each indicator
 - No more than 5 countries with very good improvement
 - No more than 10 countries with some improvement
- SBA was clearly the intervention that improved less in terms of equity