

EquiNaM

The equity impact of community-based interventions to reduce neonatal mortality: a secondary analysis of 4 cluster-randomised trials



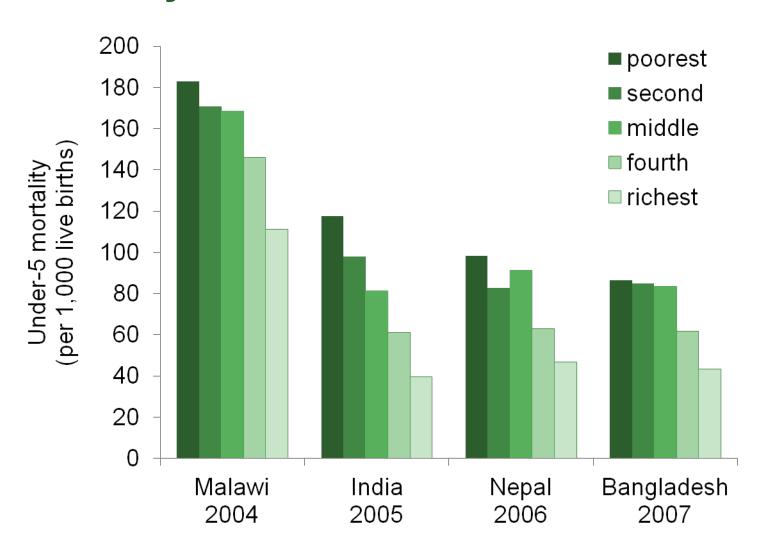
Background: large inequalities



- Progress towards Millennium Development
 Goals has been highly uneven.
- Lower socio-economic groups lag behind their more fortunate compatriots for most MDGs.
- In particular, inequalities in maternal and child health are huge.

Large poor-rich inequalities in mortality within countries





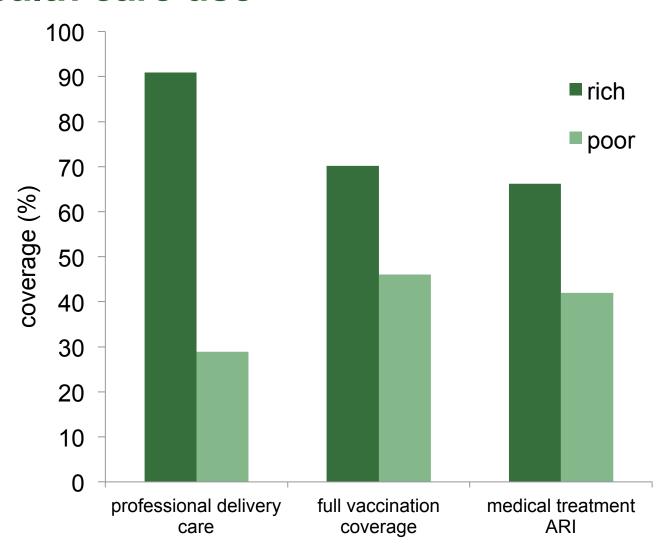
Background: pro-rich interventions



- To make things worse, effective interventions are known, but rarely reach those who need them most.
- Even 'basic' interventions that are thought to be pro-poor, such as immunisation, tend to reach the better-off to a greater extent.

Background: inequalities in health care use





Introduction



Hart's inverse care law

"The availability of good medical care tends to vary inversely with the need for it in the population served." (Hart, 1971)

Paucity of evidence on how to reach the most in need.

Community-based interventions – some indications that:

- risk of elite-capture when engaging whole communities
- reinforce existing hierarcies

What about the participatory women's group intervention?

→ Do they reach & benefit lower socio-economic groups?

Background: community interventions

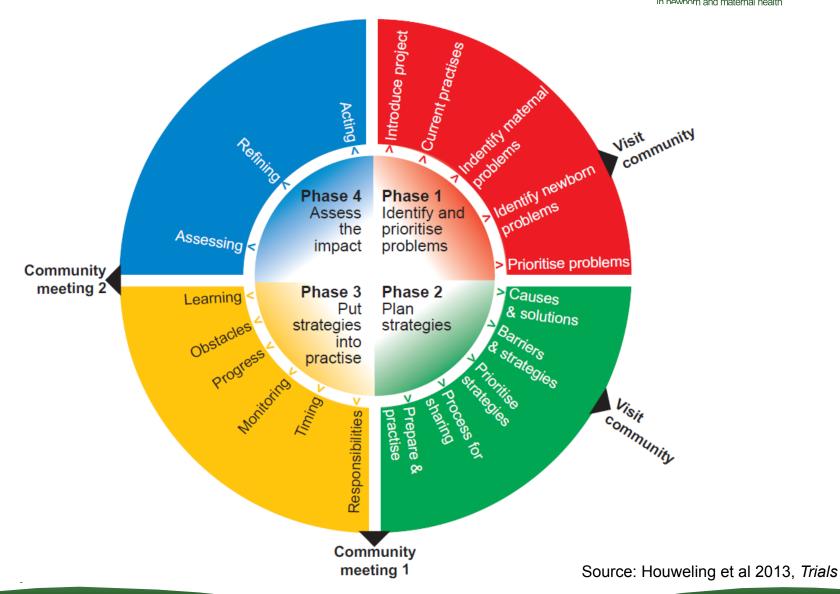


Randomized controlled trials

- Community mobilisation with women's groups
- To improve newborn & maternal health
- Simple, low cost
- Women in reproductive age

Women's group action cycle





Trial sites



Meetings:

- monthly
- local facilitator
- participatory learning & action cycle
- picture cards, games, story



EKJUT - adivasi communities Jharkhand & Orissa, INDIA



MaiMwana & MaiKhanda **MALAWI**







Perinatal Care Project 3 rural districts, BANGLADESH Makwanpur & Dhanusha **NEPAL**

SNEHA - Slum communities Mumbai, INDIA

Background: impact on NMR



Strong effects on mortality in rural sites with high women's group coverage

Meta analysis:

33% reduction in neonatal mortality in sites with high coverage* (Prost et al. Lancet 2013)

(* at least 30% of pregnant women atttending groups)

Our research questions



In the trials with a strong impact on NMR:

- What is the effect of the women's group intervention on lower and higher socioeconomic groups?
- Is there a difference in intervention effect between lower and higher socio-economic groups?
- How can these effects and any differences be explained?

Methods

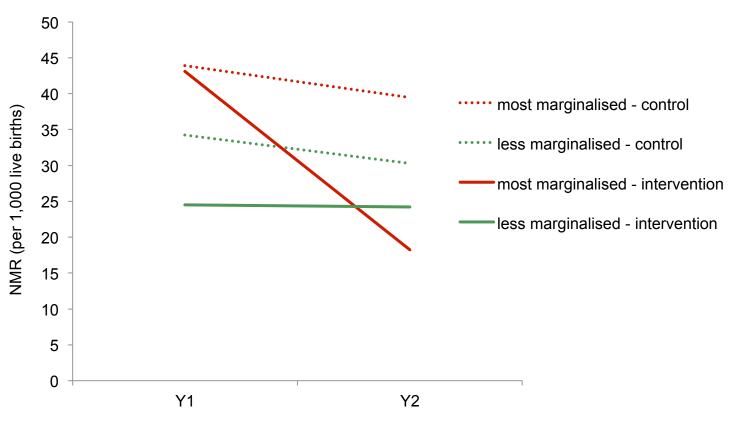


Secondary analysis of 4 RCTs

- India (Ekjut), Nepal (Makwanpur), Bangladesh (PCP-II), Nepal (MaiMwana)
- intervention effects on NMR &health behaviors among lower and higher socio-economic groups
- random effects logistic regression modelling
- testing for differences in effect between lower and higher groups.

Findings: impact on NMR Nepal (Makwanpur)



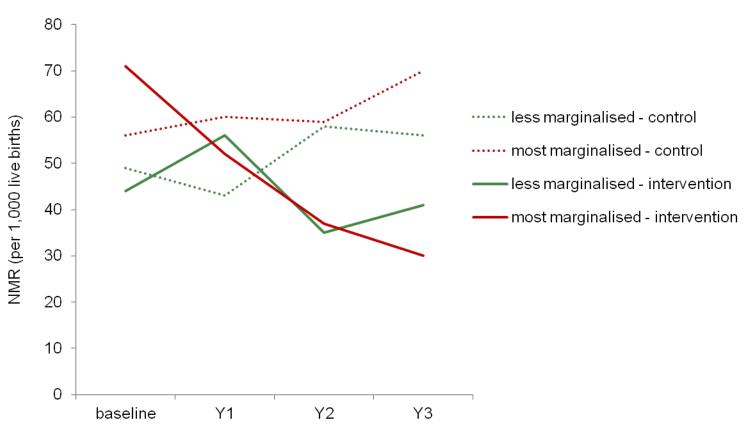


Intervention effect (OR (95%CI))

- Most marginalised: 0.38 (0.17; 0.84)
- Less marginalised: 0.71 (0.40; 1.26)

Findings: impact on NMR India (Ekjut)



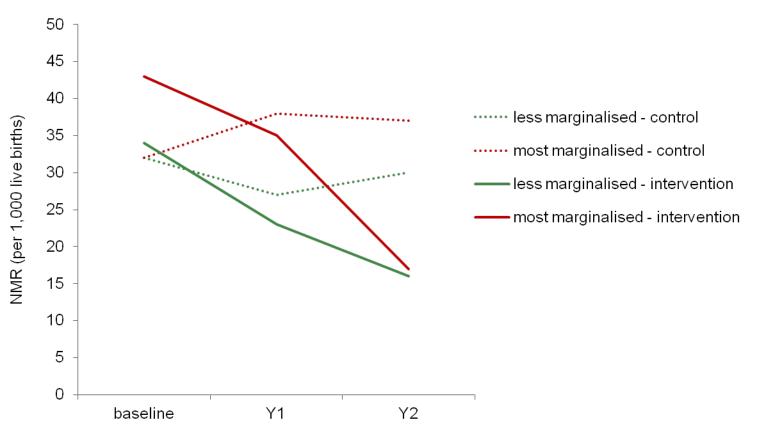


Intervention effect (OR (95%CI))

- Most marginalised: 0.32 (0.20; 0.51)
- Less marginalised: 0.82 (0.48; 1.41)

Findings: impact on NMR Bangladesh (PCP)



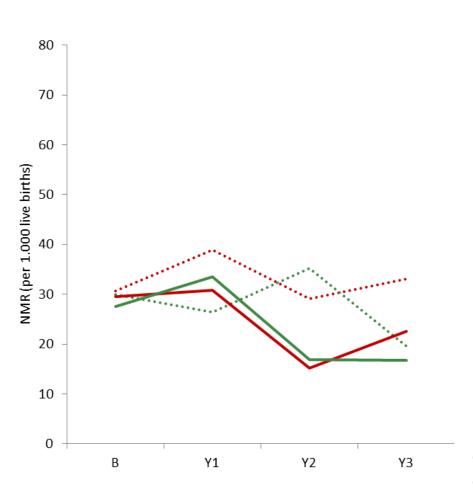


Intervention effect (OR (95%CI))

- Most marginalised: 0.33 (0.14; 0.76)
- Less marginalised: 0.49 (0.32; 0.73)

Findings: impact on NMR Malawi (Maimwana)



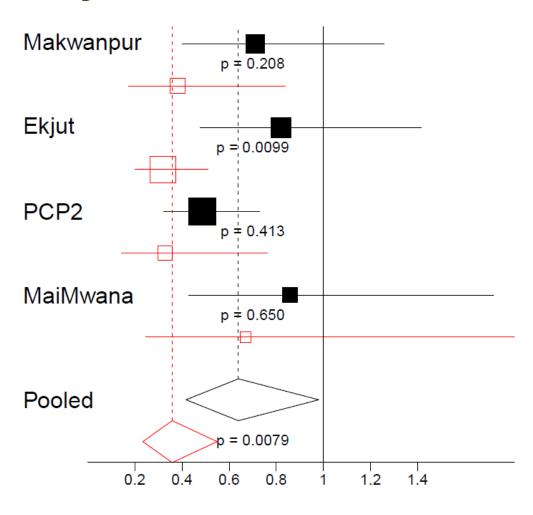


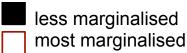
Intervention effect (OR (95%CI))

- Most marginalised: 0.61 (0.30; 1.26)
- Less marginalised: 0.63 (0.39; 1.01)

Equity impact - 4 trials summary, last trial year







Findings: impact on behaviors

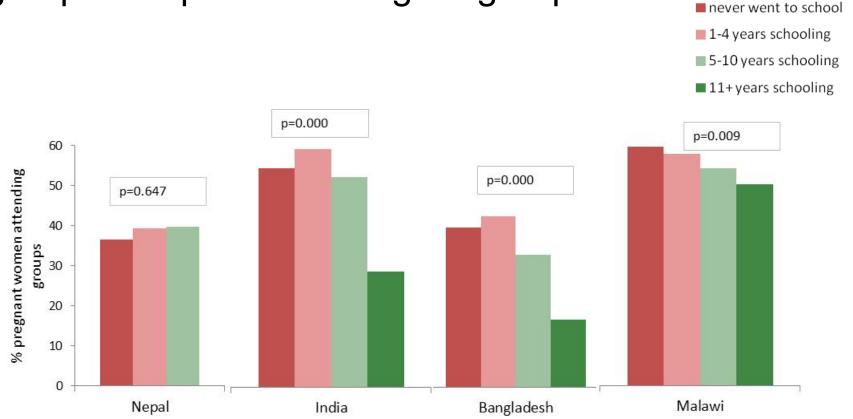


- strong improvements in home care practices among both low and high SEP groups, except Malawi
- no effects on health care use, except in Makwanpur
- no systematic differences in behavioral effects between low and high SEP groups

Women's group attendance



Similar or higher among lower socio-economic groups compared with higher groups



Qualitative work on behavior change quilding evidence to support equitable improvement in newhorm and maternal health

Why were behavioral impacts roughly similar?

- •Facilitators & group members approached families of all socio-economic groups, although more focus on marginalised
- •Poor women: less access to resources & information it was felt the women's groups therefore benefit them in particular
- Practices and taboos were similar among better off & poorer families - important to work with both

Why also effects among non-attenders?

 Non-attenders from all socio-economic strata were visited and talked to by women's group members & facilitators

Conclusions



- Hart's inverse care law?
 Not for women's groups!
- Women's groups can address the exclusion of poor & otherwise vulnerable groups from health interventions
- Local facilitators, tools & meeting place: key to equitable intervention reach

Conclusions



- As strong or stronger mortality effect among lower socio-economic groups
- Perhaps similar behavioral improvements had stronger mortality effect among most vulnerable

Participatory interventions with women's groups can contribute to an equitable reduction in neonatal mortality



More information:

http://equinam.global-health-inequalities.info

Special Thanks to TANJA HOUWELING

Thanks to teams at













