









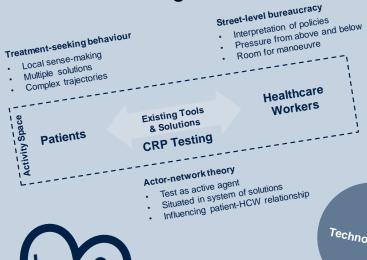




Centre for Tropical Medicine and Global Health

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Personal Background



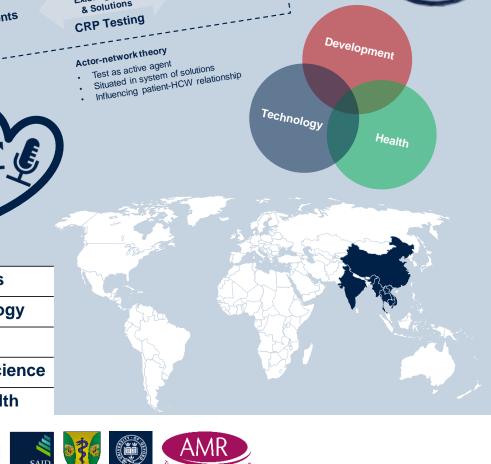


Anthropology

Sociology

Political science

Public health





EEE International Symposium on Technology in Society (ISTAS) Proceedings

Exploring the Mismatch Between Mobile Phone Adoption and Use Through Survey Data from Rural India and China

Haenssgen Emerg Themes Epidemiol (2015) 12:20

Emerging Themes in Epidemiology

METHODOLOGY

Open Access

Satellite-aided survey sampling and implementation in low- and middle-income contexts: a low-cost/low-tech alternative



SSM - Population Health

journal homepage: www.elsevier.com/locate/ssmph

Healthcare access: A sequence-sensitive approach



World Development Vol. xx, pp. xxx-xxx, 2017 0305-750X/© 2017 The Authors. Published by Elsevier Ltd This is an open access article under the CC BY license (http://

www.elsevier.com/locate/worlddev

http://dx.doi.org/10.1016/j.worlddev.2017.01.014

The Social Implications of Technology Diffusion: Uncovering the Unintended Consequences of People's Health-Related Mobile Phone Use in Rural India and China

> Health Policy and Planning, 2017, 1-9 doi: 10.1093/heapol/czx022 Methodological musings

Impact of high-intensity polio eradication activities on children's routine immunization status in Northern India











Recent Research Activities

Mobile Phones and Healthcare Access (India & China)

- Rural health behaviour study and technology diffusion
- Interviews/FGDs with 231 respondents, survey of 800 adult villagers
- Challenging the logic of "mHealth"
- Interdisciplinary team:
 - Development studies
 - Public health
 - Economics / industrialisation
 - Sociology / network science
 - Biomedical engineering
- Challenges: Language, interdisciplinary involvement, target group expectations













Recent Research Activities

Social Research, Engagement, & Evaluation Capacity (Southeast Asia)

- Knowledge exchange workshop
- 25 participants from Thailand, Laos, Cambodia, Vietnam, UK
- Identify barriers for socio-medical research
- Interdisciplinary audience:
 - Development studies
 - Economics / agriculture, health economics
 - Clinical research / microbiology, epidemiology
 - Bioethics
 - Medical practitioners
 - Public engagement
 - Media, performing arts
- Challenges: Social research concepts













Current Research Activities

Evaluating AMR-Themed Public Engagement (Thailand)

- Extensive public engagement activities at MORU, Bangkok
- Funders increasingly expecting evaluation
- Mixed-method realist evaluation approach of puppet theatre
- Methodological objective
- Interdisciplinary team
 - Led by bioethicist and evaluator
 - Supported by
 - 2 interns (paediatrics, film)
 - 1 local consultant (social research)
 - 2 local assistants (social research)
- Challenges: Ethics, methodology













Current Research Activities

The Social Context of CRP Testing (Thailand, Myanmar, Vietnam)

- Part of clinical trials in Southeast Asia to introduce biomarkers in primary care
- Invited to study "attitudes and behaviours" of patients and healthcare workers
- 85 hours recorded material from 117 patients and healthcare workers
- Social study in interdisciplinary setting
 - initiated by health economist
 - to support clinical research
 - working with medical doctors
 - interviewing patients & practitioners
- Publications aimed at clinical and socio-medical research journals
- Challenges: Research design, approach, problem definition













Current Research Activities

Behaviour, Marginalisation, & Knowledge Diffusion in AMR (Thailand, Laos)

- Rural surveys to understand antibiotic use and idea diffusion
- Expanding existing work into general popular behaviour
- Funded by cross-council initiative to Tackle Antimicrobial Resistance
- Interdisciplinary team (previous links)
 - Development studies
 - Public health & training
 - Medical anthropology
 - Sociology / network science
 - Economics / agriculture, health
 - Clinical research, microbiology
 - Engagement and bioethics
- Challenges: Expectations, processes













Planned Research Activities

Supply-Induced Demand for Antibiotics Among Marginalised Populations in Northern Thailand

- Small qualitative study to understand informal antibiotic access
- Exploring empirically grounded hypotheses
- Learning opportunities for junior team members and students
- Working in context of biomarker trial

Advancing AMR Social Theory, Empirical Knowledge, & Research Capacity (Thailand, Myanmar, Laos, Cambodia)

- Expansion of existing research agenda in Southeast Asia
- Social, economic, technological, & policy context of AB use
- Cultivating framework to analyse behaviour in health system
- Develop social research portfolio and capacity in the region

























Revisiting the Challenges

The projects highlighted challenges in interdisciplinary work.

Problem Area	Examples
Problem area & population	"Patients" vs. general population, "disease" vs. care seeking
Speaking same language	Jargon like "capabilities" is misunderstood
Social research concepts and approaches	Using frameworks to guide research become too abstract / uninteresting for collaborators; one group of "social scientists"
Involving all participating disciplines	Participants feel easily side-lined and frustrated if their suggestions are not applicable to a social research study
Research designs	Squeeze a social study into an existing clinical trial
Research methods	Qualitative research to be "representative" and closed-ended
Implementing research	Sampling in clinical settings , working through hospital partners
Ethical approval	Medical ethics councils with limited experience in social science
Target group understanding	Unable to convey main point of mHealth studies to reviewers











Underlying Problems of Interdisciplinary Collaboration

The issues are symptomatic of deeper problems.

Research paradigms and objectives

- Constructivist vs. positivist vs. pragmatic vs. transformative research
- Exploratory vs. action research understanding vs. improving

Dealing with ambiguity

- Large parts of the social sciences embrace and explore ambiguous meaning
- Ambiguity and "subjectivity" is largely avoided in medical research

Taking models too serious

Social researchers can get absorbed in language and logic of their models

Established "ways of doing stuff"

Social and medical researchers follow different routines and work processes (e.g. protocols, GCP certification)

Unspoken stances, assumptions, and biases

 Firmly held assumptions have evolved during many years of training and practice – surfacing only when challenged in interdisciplinary research









Some Suggestions

Problems in inter-disciplinary work are common but can be dealt with.

Addressing the Symptoms

- Enthusiasm, patience, perseverance
- Involve the various disciplines at the proposal stage of the project
- Focus on relevance to practice when discussing with medical researchers
- Work with inter-disciplinary mediator
- Translate jargon into lay terms
- Be self-critical and explicit about conflicting research paradigms
- Specify desired inputs from each collaborator during project cycle
- Present research ideas outside of your home discipline

Addressing Deeper Issues

- Offer inter-disciplinary research training in global health and medical anthropology
- Provide research internships for medics in social research projects
- Raise interest for local social researchers in low- and middle-income universities to explore medical topics empirically
- Develop inter-disciplinary long-term collaborations (e.g. resident social scientists in medical research units) to design research (processes) jointly
- → Build socio-medical research capacity











If it all goes well...

Inter-disciplinary research is challenging but rewarding.

Unprecedented opportunities

- Socio-medical research as a fertile, demanded niche
- Opportunity for social researchers to work in global health priority area
- Scope for economics, political sciences, social anthropology, **sociology** to inform global health challenges
 - Economic, social, political context of AMR
 - **Behaviours** of patients' and healthcare workers'
 - Implementation **challenges** of clinical trials and policies
 - "Big picture" understanding of macro context











If it all goes well...

Inter-disciplinary research is challenging but rewarding.

Constructive collaboration

- Tackle research problems more holistically
- Social research has informed medical research practice:
 - Assumptions and implementation context of mHealth
 - Public health research methods for health behaviour
 - Methods to evaluate AMR public engagement
 - Case example of CRP biomarker testing:
 - AB demand for sore throat → understanding impact
 - No precise concept of "AB" → small scope for awareness
 - Intervention interacts with policy context → transferability













If it all goes well...

Inter-disciplinary research is challenging but rewarding.

New research impulses

- Expanding your "comfort zone"
- Inspiring locally grounded research ideas
 - Entrenched behaviours in community networks
 - Market behaviour of informal vendors
 - Patient decision-making routines in pluralistic health system
 - Economic substitutes to antibiotic use
 - Popular resistance to policies
- Developing social theory in global health context

























Conclusion

Inter-disciplinary AMR research is challenging but rewarding

Disciplinary divides can be overcome in enthusiastic teams

Structural barriers require longer-term and institutional solutions









