REVERSE INNOVATION – LEARNING WITH AND FROM PARTNERS IN RESOURCE POOR SETTINGS

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AIMS



- 1) An outline of Global Health
- 2) Examples of innovation from LAMIC settings
- 3) An appreciation of complexity and 'tame' vs 'wicked' problems
- 4) Relevance of GH to all

AN INTRO TO GLOBAL HEALTH



2. MOTHERHOOD AND CHILDHOOD ARE ENTITLED TO SPECIAL CARE WEDLOCK, SHALL ENJOY THE SAME SOCIAL PROTECTION.

MDGS (PRE-2015) AND SDGS (POST-2015)

MDGs

- 1. Reduce poverty and hunger by half
- 2. Ensure that all boys and girls complete primary school
- 3. Achieve equality between men and women in school and at work
- 4. Reduce the number of children under-five who die by two-thirds
- 5. Keep women healthy before, during and after pregnancy
- 6. Combat HIV, malaria and other diseases
- 7. Ensure that the environment is protected
- 8. Ensure that world governments work together to reduce debt, give more and better aid, and make trade fairer

MDGs to SDGs



UK NHS – BORN 5 JULY 1948

- Fewer doctors and beds per 1000 than Europe
- (What about lawyers and prisons?)
- NHS best of 11 countries for: efficiency, effective care, safety, patient-centred care
- Shorter length of stay
- 9.27% of GDP in 2012 (US 16.90%)
- 1.747 million in contact with mental health services 2014
- 105000 admitted
- 21.7 million OP/CMHT contacts
- 2014/15 budget £113 billion (£96 billion England)

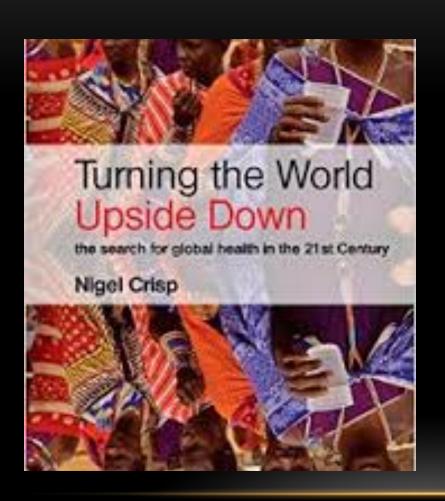


HEALTH AND DISEASE DO NOT RECOGNIZE BORDERS – GLOBAL HEALTH PARTNERSHIPS

- UK NHS is increasingly working with low and middle-income countries for mutual benefit
- East London involved in Uganda since 2003 and Bangladesh since around 2013
- Affiliations with King's College in Somaliland and Sierra Leone
- Covers mental health and community health
- Benefits to partner countries
- Benefits to UK NHS
- Benefits across partnership network
- Supported by 2005 UK Gov Blair Commission
- Supported by 2007 Crisp Report
- Now supported by UK DH and HEE
- Future Partnership with Vietnam/Laos/Cambodia?



UK NHS GLOBAL HEALTH PARTNERSHIPS



- Improving clinical care
- Developing services
- Improving training
- Supporting health advocacy
- Supporting research
- Building confidence
- Developing networks
- Aim to meet MDGs and SDG3

DEBATE ABOUT AFFORDABILITY OF THE NHS – AND GLOBAL HEALTH?

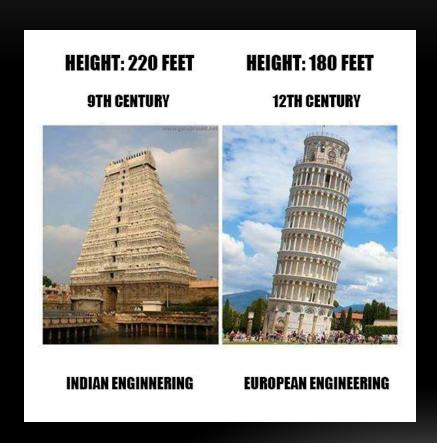


BUT GLOBAL HEALTH IS NATIONAL HEALTH





REVERSE INNOVATION: IMPORTING SOLUTIONS FROM LAMIC PARTNERS



- 'In a pluralistic society there is nothing like the indispensable public good; there is no objective definition of equality; policies that respond to social problems cannot be meaningfully correct or false; it makes no sense to talk about 'optimal' solutions to social problems... Even worse there are no 'solutions' in the sense of definitive and objective answers'
- (Dilemmas in a General Theory of Planning 1969 - Horst Rittel and Melvin Webber)
- 'Tame' (simple, logical) vs 'Wicked'

MENTAL HEALTH IN UGANDA – A SUMMARY

- 32 psychiatrists (Kenya 80)
- 1 mental hospital Butabika
- (Capacity 500; actual 900)
- PCOs
- Nurses
- CHWs

- Population 37 million
- Doubles every 16 years
- 90% never treated
- Comm facilities
- Traditional healers
- Churches
- Missionaries
- Families/communities

UGANDA – BUTABIKA AND EAST LONDON

- First conceived 2003
- Ugandan recognition of scale of public health problem
- Mental illness considered highest priority after infectious disease
- Success against odds in HIV control noted
- Negotiated model of sustainable partnership via THET
- THET support
- Trust support
- Scoping, evaluation, trial and error, strategy/business plan



BENEFITS OF PARTNERSHIP – TO UGANDA

- Better clinical care
- Better services
- Better training
- Health advocacy
- Research benefits
- Network benefits
- Cultural exchange
- Self-confidence
- Friendship



BENEFITS OF PARTNERSHIP – TO ELFT/UK

- Individual development
- Organisational reputation
- Support of/from diaspora
- Source of better trained NHS staff (Beware 'Brain Drain')
- Research data/skills
- Service models (PCOs, UK Physician Associates)
- Teaching methods (Simulation, d-learning, MH-GAP)
- QI (innovation/resource optimisation)
- Grassroots engagement (Recovery College, Making People Better programme)



PCOS – UGANDAN INNOVATION

- Pragmatic solution to national health staffing
- Brainchild of late Professor Bosa (Makere University)
- Backbone of Ugandan (mental) health provision
- Clinical, educational and administrative role
- Model adopted regionally and beyond



SOMALILAND - ESSENTIALS



- 25 years post-conflict
- No UN recognition
- Population approx 3.5 million
- 197 doctors
- 1256 nurses
- 344 midwives
- (WHO rec. min. 2.3/1000)

K(T)SP INVOLVEMENT

- Pre-2000: no med schools, no regulatory bodies, 1 nurse training course, few hospitals
- 2007 first doctors graduate (Amoud)
- 2008 first Psychiatry training, first OSCEs and nurse training
- 2011 OSCEs in Finals
- 2013 KSP CPD programme
- 2014 onwards Intern teaching



KTSP 2008 UG MENTAL HEALTH TRIP

- 1st mental health visit
- No new doctors for approx 25 years
- No prior psychiatry experience
- Interactive
- 'Low-Tech' Simulation
- Role-play
- OSCEs
- Model for Africa
- Implementation science in action



BESPOKE DISTANCE LEARNING PLATFORM (KTSP/THET)



SIERRA LEONE SEPTEMBER 2015





EXPECT THE UNEXPECTED





INEQUALITY DOWN THE AGES

Europe circa 1800



East Africa 21st Century



BUT...

NYC 2017



East Africa 2017



ATTAINABLE UNIVERSAL HEALTH COVERAGE? WHO VALUES HEALTH?





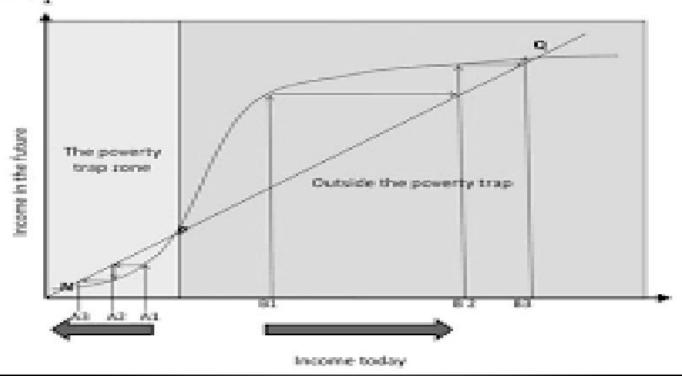
WHAT DISORDER IS THIS?

ICD Z 59.5

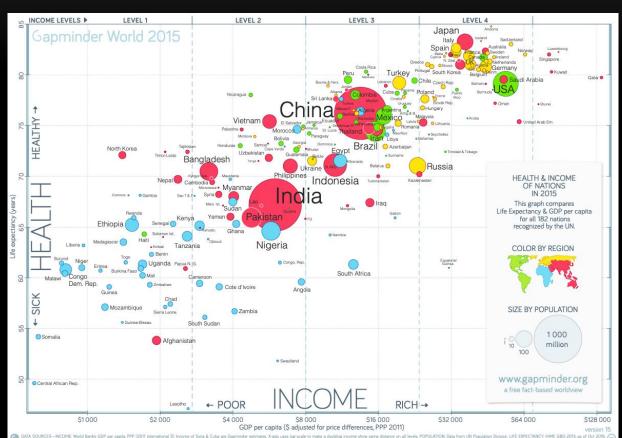
• (WHO 2007)

DEVELOPMENT

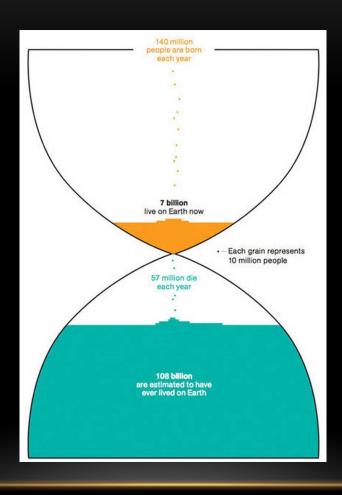
Figure 1: The S-Shape Curve and the Poverty Trap



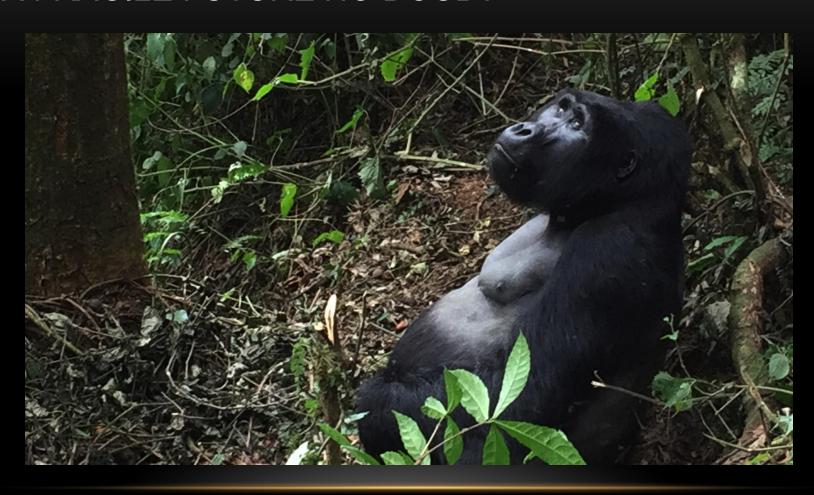
WHERE ARE YOU?



BEWARE THE SANDS OF TIME



A FRAGILE FUTURE NO DOUBT



BUT...



Francis PICABIA

Our Heads Are Round so Our Thoughts
Can Change Direction

DATA-BASED INNOVATIONS FROM EAST AFRICA FOR GLOBAL HEALTH BENEFIT

- Epstein-Barr virus epidemiology
- Role of EBV in lymphoma
- First trials of solid tumour chemotherapy
- M-PESA technology
- Smallpox eradication (pictured)
- 'ex-Africa semper aliquid novi' (Pliny the Elder)

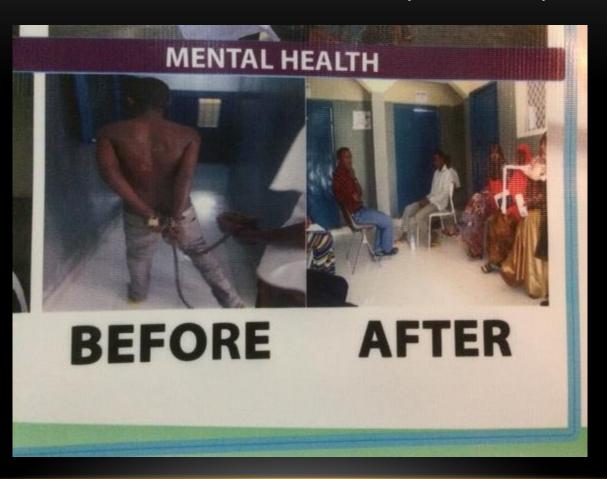


COMMUNITY ENGAGEMENT INNOVATION FOR GLOBAL HEALTH GAIN

- HIV reduction in Uganda
- Clinical Officers (medical, surgical, psychiatric) across Africa
- (Note: Physician Associates in richer countries now)
- (Volunteer) Community Health Worker programmes
- Abolition of 'chaining'
- Patient-led Peer Support and Recovery Colleges



COMMUNITIES IMPLEMENTING SDG3 AND HEALTH AS A HUMAN RIGHT (UN 1947)



SOME VIETNAM HEALTH ACHIEVEMENTS



- Identification of bubonic plague cause (Yersinia)
- Link to NPC of EB virus
- 1976 Resolution 15 free treatment of schizophrenia and epilepsy
- Psychiatric staffing levels (e.g. more than 900 psychiatrists for population of 95 million)
- Training programmes
- Research evidence on cost-effectiveness of schizophrenia treatment
- International collaboration policy

SOME PRIORITIES FOR VIETNAM?





HOW NOT TO INNOVATE?



- Millennium Villages (Uganda)
- Play-pumps (South Africa)
- Zipline (Ghana)
- Babylon Health (Rwanda)
- Electronic records
- MRI and neurosurgery as RTA solution
- Health-force based on volunteers

EQUIVOCAL INNOVATION?



- Microfinance
- Telemedicine
- Free soap and nutritional supplements
- Implementation vs Innovation
- Waste vs Efficiency
- Tame vs Wicked problems
- Patient Safety???

WHAT WORKS – COMMON THEME?



- Slow Food Gardens (Africa)
- MoSan toilets (Bangladesh)
- Safir water filter (Kenya/Bolivia)
- Flying 8 loom (Ethiopia)
- Friendship bench (Zimbabwe)
- M-pesa (Kenya)
- Clinical Officers (Uganda)
- Virus eradication smallpox, polio??
 (Somalia, Bangladesh)
- Peer Support (Uganda)

ISSUES AND CHALLENGES FOR ALL



- Poverty
- Population bubble 2050; decline 2100
- Migration voluntary and forced (IDPs and refugees)
- Climate/pollution
- Food
- Water
- Energy
- NCDs hypertension, diabetes, cancer
- Mental Health 14% avoidable deaths
- RTAs 1.25 million deaths globally; 90% Low Income
- WHO 'top 10' and AMR
- Disease X

3 TAKE HOME MESSAGES



And you what's your excuse?

- 1) National Health is Global Health
- 2) Co-creativity is key find a partner
- 3) Anyone can do this

'THERE ARE NO PASSENGERS ON SPACESHIP EARTH – WE ARE ALL CREW'

