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Micro Health Insurance – The product development challenge

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The challenge

- Lack of access to health insurance amongst the poor in developing nations (Griffin & Shaw, 1995; Doyle et al., 2011)
- Prefunded health insurance is preferable to alternative sources of finance

(Brown & Churchill, 2000; Binnendijk, Koren & Dror, 2012)

• BUT: MHI providers have largely failed to deliver.....

»Can we help?

»Why?



Agenda

- The need for micro health insurance
- Key challenges
- Our project plan
- Progress to date
 - Case studies
 - Work in progress





Target Market

- The goal of universal access to healthcare
- The need for prefunded, pooled care
 - Types of care
 - Levels of care
- Informal economy (irregular incomes)
- The role of the State / dependence



Insurance Core Principles

- Is an inclusive insurance market feasible for MHI?
 - Affordable
 - Sustainable
 - Convenient
 - Responsible
 - Supervised insurance providers
 (proportionality principle)



Structuring delivery

- Purchasing
 - Incentives
 - Contracting
- Benefits
 - Level of care
 - Managing expectations
 - Cost sharing
- Monitoring
 - Data collection
 - Risk management
- Distribution

- Funding
 - Sources
 - Adequacy
- Pooling
 - Entity
 - Mechanism
 - Governance





Specifying the problem

- Willingness to pay
- Benefit expectations
- Current utilisation (impact of insurance)
- Accessibility of service providers





LIMS study in SA

- GP visits
- X-ray and laboratory tests ordered by the GP
- Dental consultations
- Optometry services
- Prescription medicines, subject to a primary care formulary
- Emergency transport to a public hospital

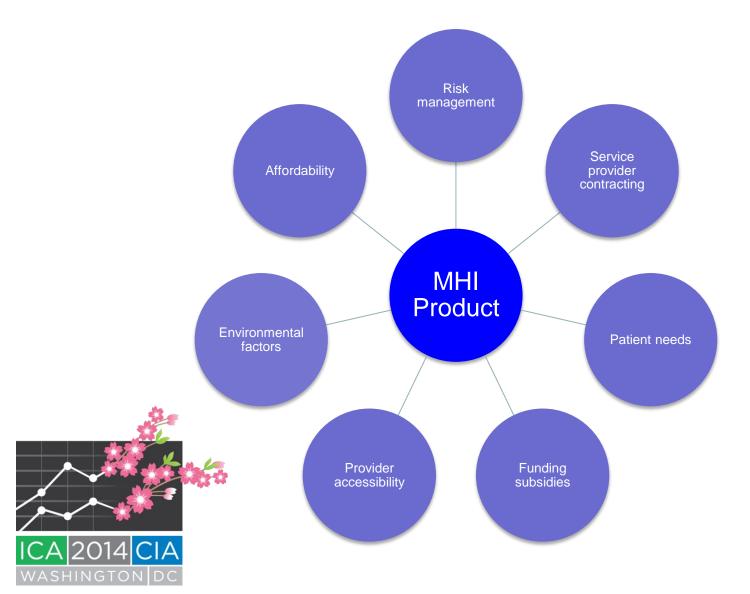


Pricing requirements

- Population
 - Identify targets
- Utilisation
 - Benefit expectations
- Infrastructure
 - Accessibility
 - Levels of care
- Price of services
 - Contracting opportunities (risk sharing)



Lots to consider....



Micro health insurance project

- Aims
 - Investigate practices
 - Benefits
 - Structuring
 - Framework for assessing utilisation
 - -Process
 - » Data collection
 - » Best practice assessment
 - » Framework development
 - » Link to Milliman Pricing Model Project



Collaborators

- Micro Insurance Working Group of the IAA
- Finmark Trust
- Wits University
- Milliman



Sources of data per country

- International statistics (WHO...)
- National statistics
- Regional statistics
- Local (insurers and community entities)
 - -Challenges
 - » Specificity
 - » Consistency
 - » Confidentiality

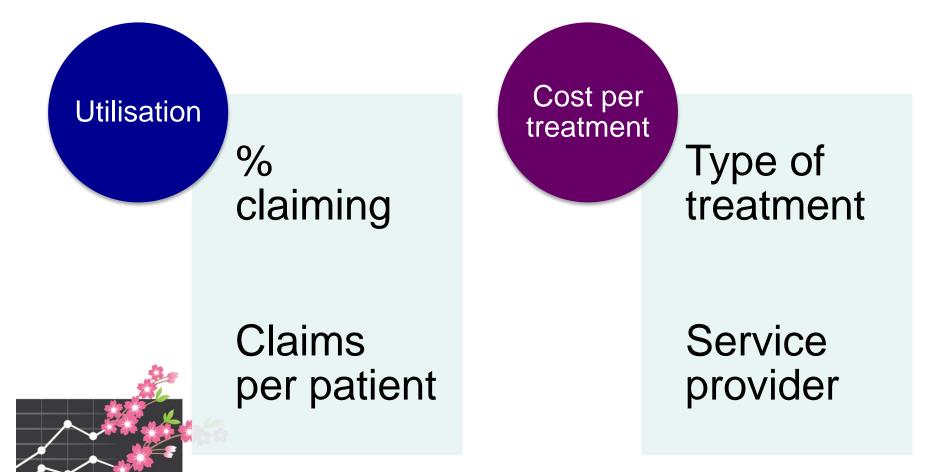


Burden of disease

- Preventative vs. curative care
- Communicable vs. non-communicable
- Assessments of prevalence
 - Diagnosed
 - Latent
- Treatment protocols and levels of care



Components of claim cost



2014

A model for assessing costs





Some case studies

- Kenya
- India
- Ghana
- Columbia





Kenya case study

- 39m population
- Small formal sector
- NHIF
- Burgeoning private sector



CIC's journey in micro health insurance

Initial product 2004-2008	 Family health insurance cover piloted with KADET (MFI) and expanded cover to other MFIs and SACCOs Extended benefits, included private healthcare providers (more costly) Low take-up and business was loss making
Bima ya Jamii 2008-2010	 Bundled life and family health, health component underwritten by NHIF Low take up and renewal rates, health component was loss making (LR 120%), challenges with the relationship with NHIF
Afya Bora 2012 ICA 2014 CIA WASHINGTON DC	 Family health insurance cover underwritten by CIC International consultant for product development and pricing Used national data for setting assumptions for utilisation rates Developed a list of procedures and recommended rates to be negotiated with healthcare providers Low claims ratio in first year, but loss making in second year, premiums may need to be adjusted

India case study

Country overview

•Population 1.2 billion (2011) (+/- 30% BPL)

•Healthcare expenditure 4% of GDP (2008-09)

National objective of universal health

Burden of disease

Majority of healthcare expenditure for low income market: Diarrhoea, dysentery, gastritis, respiratory infections, malaria
Main reasons for hospitalisation:

> Heart disease, kidney and urinary system disease, ovnaecological disorders, accidents and injuries



Overview of RSBY

Targeted at households living BPL Member plus 5 dependants (143m beneficiiaries in 2012)

Hospitalisation benefits: 727 listed procedures incl. maternity (secondary care), transport costs Annual max benefit: US\$555 per household (sufficient for 90% of households)

Healthcare services provided by empanelled hospitals (75% admissions at private hospitals)



Premiums 100% subsidised by government (households pay US\$0.5 enrolment fee)

Underwritten by commercial insurers Districts allocated to insurers based on lowest premium quote



Enrolment

38 million households, 512 districts

Utilisation and cost

Hospitalisation ratio: 2.5% (2010) (6.4% private insurance)

1.9% (round 1) \implies 2.2% (round 2)

Average cost of admission: US\$100 (2012)

Premium and claims ratio



Average premiums: US\$11.5 (2009) US\$6.8 (2013) Claims ratio: 73% (round 1) vor 100% (round 3)

Factors affecting utilisation and cost



Diagnosis/ procedure

Enrolment

Out patient pilot



Risks and Risk Management

Adverse selection	Less of an issue	Subsidised premiums
Cream skimming	Less of an issue	Targeted enrolment list
Moral hazard and over utilisation	Substitution for IP for OP Increase in utilisation over time	Max annual benefits, listed procedures and packaged rates
Provider induced demand	Increase procedures higher fees Pair procedures to maximise fees (increase in hysterectomies)	Independent review of treatment Dis-empaneling providers involved in fraud



Work in progress

- Expected outcomes
 - Literature survey under way
 - Identification of best practices
 - Benefit design
 - Implementation
 - Collection of data
 - Utilisation framework



The Role of the Actuary

- Providing a framework
- Advice and support
- Monitoring and analysis

• Innovation, Care, Experience





- Brown, W & Churchill, CF (2000) Insurance provision in low income communities. *Microenterprise best practices*. Development Alternatives Inc.
- Griffin, CC & Shaw, PR (1995) *Health Insurance in sub-Saharan Africa: aims, findings and policy implications*. World Bank.
- Doyle, C; Panda, P; Van de Poel, E; Radermacher, R; Dror, DM (2011) Reconciling research and implementation in micro health insurance experiments in India. Trials
- Binnendijk, E; Koren, R; Dror, DM (2012) *Hardship financing of healthcare among rural poor in Orissa, India*. BMC Health Services Research.

