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Risk equalisation in voluntary health insurance markets: a three country comparison

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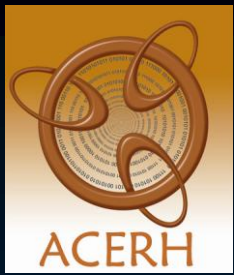
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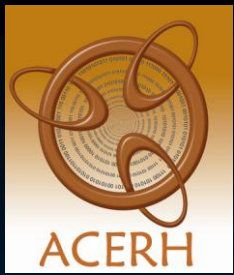




Special Issue in 'Health Policy'

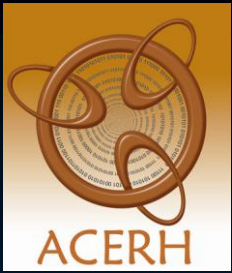
Outline:

1. Editorial: *'Risk equalisation in voluntary health insurance markets'* (Armstrong, Paolucci, van de Ven);
2. *'Risk equalisation and voluntary health insurance markets: The case of Australia'* (Connelly, Paolucci, Butler, Collins);
3. *'Risk equalisation and voluntary health insurance in Ireland'* (Armstrong);
4. *'Risk equalisation in the South African voluntary health insurance market'* (McLeod, Grobler);
5. **Risk equalisation in voluntary health insurance markets: a three country comparison.**



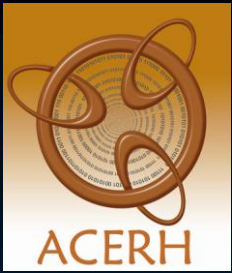
Agenda

1. Overview of *health financing* in the 3-countries;
2. Voluntary private health insurance (*VPHI*) and risk-equalisation (*RE*) in the 3-countries;
3. Conclusions and discussion.



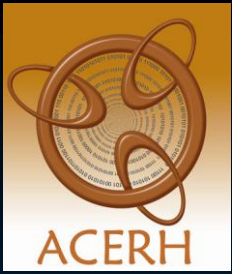
Part 1.

Overview of health financing in the 3-countries



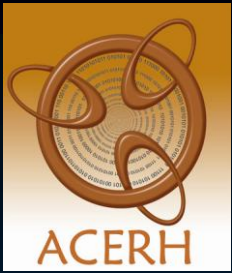
Australia (1)

- *Mix of public-private financing & delivery* of health services:
 - Public health insurance (**Medicare**, 1984). (68% of THE).
 - Out-of-pocket payments. (24% of THE).
 - Competitive **VPHI**. (8% of THE).



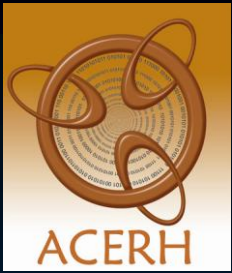
Australia (2)

- **Medicare (1984):**
 - Tax funded universal mandatory coverage;
 - ‘Free’ treatment as a public patient in a public hospital;
 - Subsidies for private medical services (Medicare Benefits Schedule) and pharmaceuticals (Pharmaceutical Benefits Scheme).



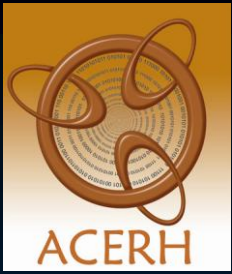
Australia (3)

- Competitive **VPHI**:
 - *Supplementary* coverage for (parts of) the costs of services not covered by Medicare (e.g. hospital charges levied by private hospitals);
 - *Duplicate* coverage for the costs of services (partly) covered by Medicare;
 - *Non*-substitutive;
 - Individual-based insurance;
- Out-of-pocket payments:
 - VPHI-Deductibles, POS-copayments.



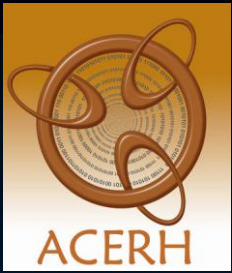
Ireland (1)

- *Public/private mix of funding & delivery* of healthcare (almost identical to Australia):
 - Tax-funded public health insurance scheme;
 - VPHI market;
 - Out of pocket expenditures.



Ireland (2)

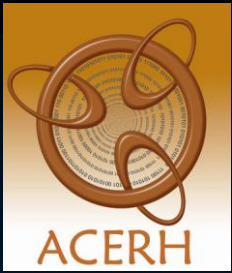
- *VPHI market* commenced in 1957 with establishment of *Vhi Healthcare* & provides:
 - *Duplicative* coverage to universal entitlement of public hospitals*;
 - *Substitutive* GP-care coverage for non- Medical Card holders;
 - *Supplementary* coverage.
 - Employer based schemes (60%) or directly by individuals.



South Africa (1)

Public/private financing & delivery of healthcare:

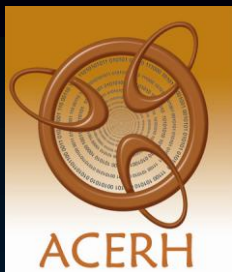
<u>Public sector (40% of THE)</u>	<u>Private sector (60% of THE)</u>
Universal tax-funded with allocated budgets for public healthcare facilities.	VPHI market (1889) known as 'medical schemes' since 1967 covering on a voluntary basis 15% of the population (i.e. high-income groups)
64% of the population depends on it for all conventional healthcare services	A further 21% of the population use private GP and pharmacies on OOP-basis and for the rest relies on the public scheme
Salaried staff	FFS
Care is virtually 'free' at the point of service for unemployed and low-income people (e.g. user charges with exemption policies)	Deductibles and copayments



South Africa (2)

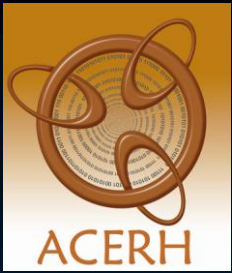
■ *VPHI features:*

- *Substitutive* coverage & delivery via private healthcare providers, predominantly fee-for-service.
- Not for-profit MS, owned by their members.
- **Brokers** are paid commissions for taking members to open schemes – 9,742 individual health brokers while there are only 7,000 GPs.
- Fiercely competitive market (i.e. high switching rates).



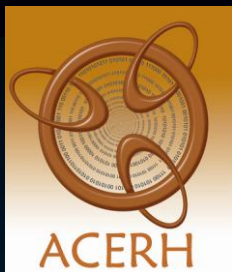
Part 2.

VPHI & RE in the 3-countries



Outline of VPHI markets

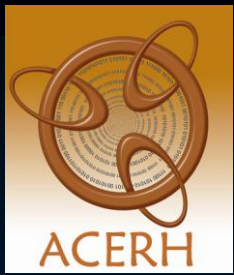
	Australia	Ireland	South Africa
% population covered by VPHI	47%	52%	15%
People covered by VPHI	10.9 million	2.2 million	7.8 million
VPHI expenses as % of total national hc expenses	8 %	12%	55%
Do consumers have free choice of insurer to enroll within?	Yes, 93% are in open schemes	Yes, 95% are in open schemes	Yes, 67% enrolees in open schemes
Financial responsibility of individual insurance entities	Very low. Costs >AU\$50,000 are shared.	100%	100%



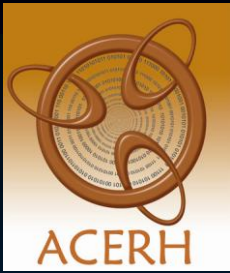
Market structure for VPHI

	Australia	Ireland	South Africa
Number of open undertakings	25	3	41
Market share largest insurer	30%	66%	25%
Market share largest 4 insurers	70%	100%	44%
Premium subsidies and/or tax-credits for PHI purchase?	Yes (Rebate and Medicare Levy Surcharge)	Yes	Yes (but no subsidies for people earning below tax-threshold)
Premium restrictions?	Community-rated premiums	Community-rated premiums	Community-rated premiums
Flexibility for benefit package design	Very high	Very high	Very high

Common elements VPHI-markets

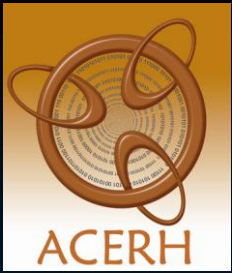


- Flexibility for benefit package design is an effective tool for market segmentation and thereby *undermines community rating*: indirect premium differentiation via product differentiation.
- Adverse and risk selection are significant problems!



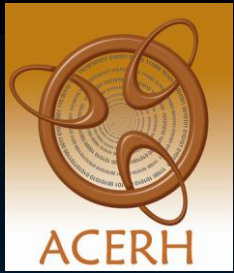
Risk selection: tools

	Australia	Ireland	South Africa
Preferred risk selection by insurers	<ul style="list-style-type: none">▪ Selective advertising;▪ Premium differentiation via Product differentiation;▪ Voluntary deductibles.	<ul style="list-style-type: none">▪ Selective marketing;▪ Restricted product enhancement;▪ Voluntary deductibles.	<ul style="list-style-type: none">▪ Selective marketing;▪ Benefits above the prescribed minimum benefits.



Subsidising VPHI: HOW?

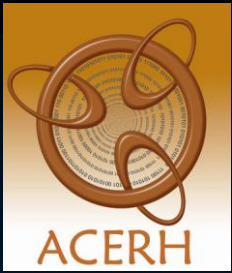
- Competitive VPHI markets require the enforcement of regulations/subsidies to achieve affordability, efficiency and prevent **selection**.
- The current forms of subsidies for VPHI in the 3 countries:
 - a. Premium-adjusted **subsidies**;
 - b. **Community rating** per insurer per product;
 - c. Risk-adjusted subsidies (e.g. **risk-equalisation**)?



a. Premium-adjusted subsidies

- Effective in achieving affordability.
- But, not optimal:
 - They reduce the consumers' and insurers' incentives for efficiency:
 - » Less effective price-competition and risk of *premium inflation*;
 - » A welfare loss because of the *moral hazard* due to over-insurance.
 - They create a *misallocation* of subsidies.

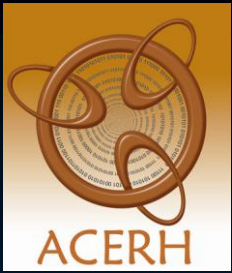
→ tradeoff affordability - efficiency



b. Community rating

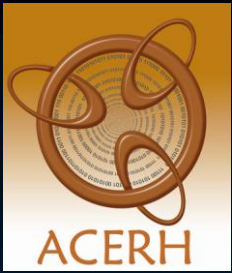
- Goal: to create implicit cross-subsidies from the low-risks to the high-risks.
- Effect: Such pooling of people with different risks creates substantial predictable profits and losses for subgroups → and thereby create incentives for risk-selection.

→ tradeoff affordability - selection



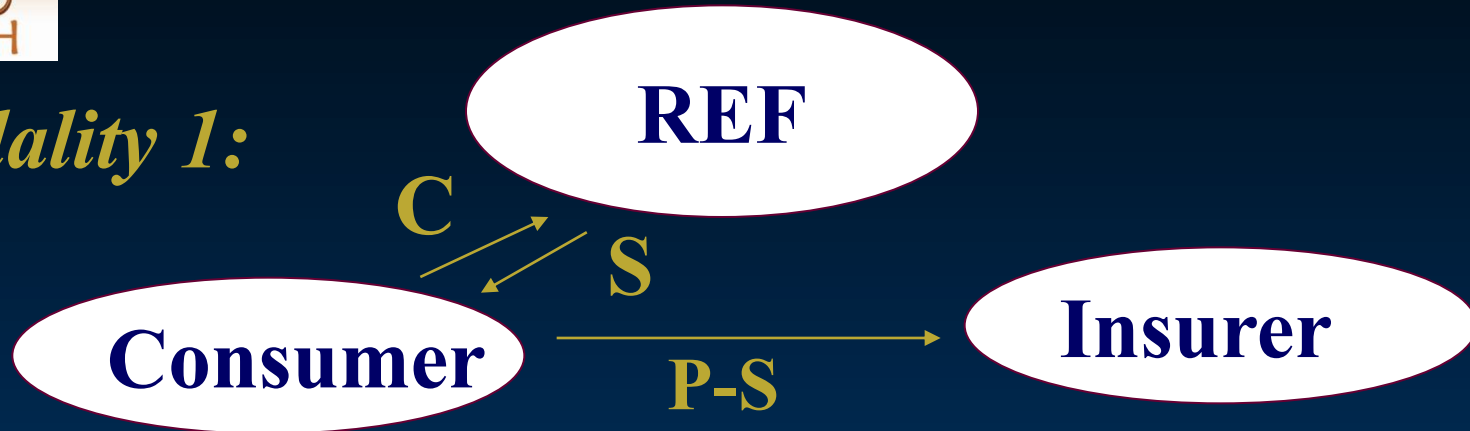
c. Risk-equalisation

- A usual definition of **risk equalisation**:
 - ‘A mechanism to **equalise** the risk profiles among insurers with the objective that the *ex-ante* risk profiles of each insurer become identical.’
- This is done by calculating premium **subsidies** based on **risk-adjusted predicted** individual health expenses. These subsidies are given to the insurer who deducts it from the premium of the relevant consumer.

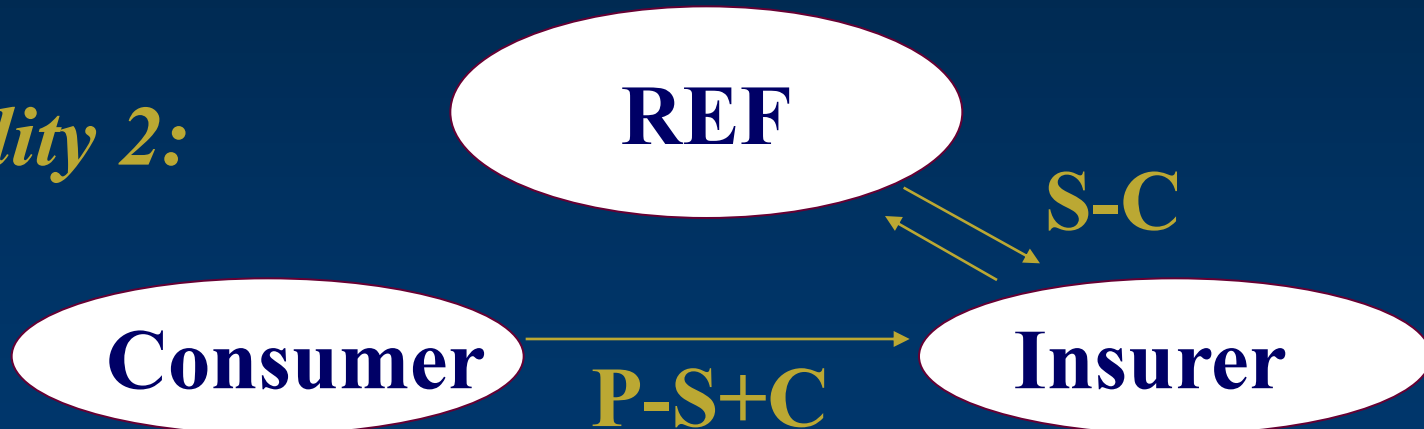


Modalities of risk equalisation

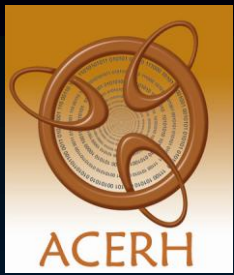
Modality 1:



Modality 2:

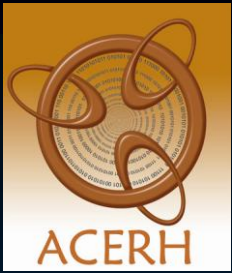


C=Contribution; S=Subsidy; P=Premium.



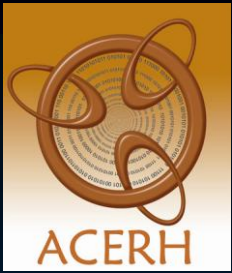
Effects of RE

- Eliminate incentives for risk-selection;
- No distortions of premium competition (*efficiency*);
- Achieve *affordability* in competitive PHI markets.



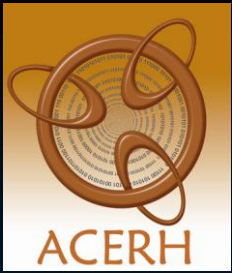
Australia: is it RE?

- Although in Australia it is called ‘risk equalisation’, it is a *claims cost equalisation (CE)*:
 - ‘A mechanism to **equalise** the **claims-costs** among insurers with the objective that the *ex-post costs* per person of each insurer become identical.’
- This is done by enforcing ex-post costs-based compensations between insurers.



Benefits / Services

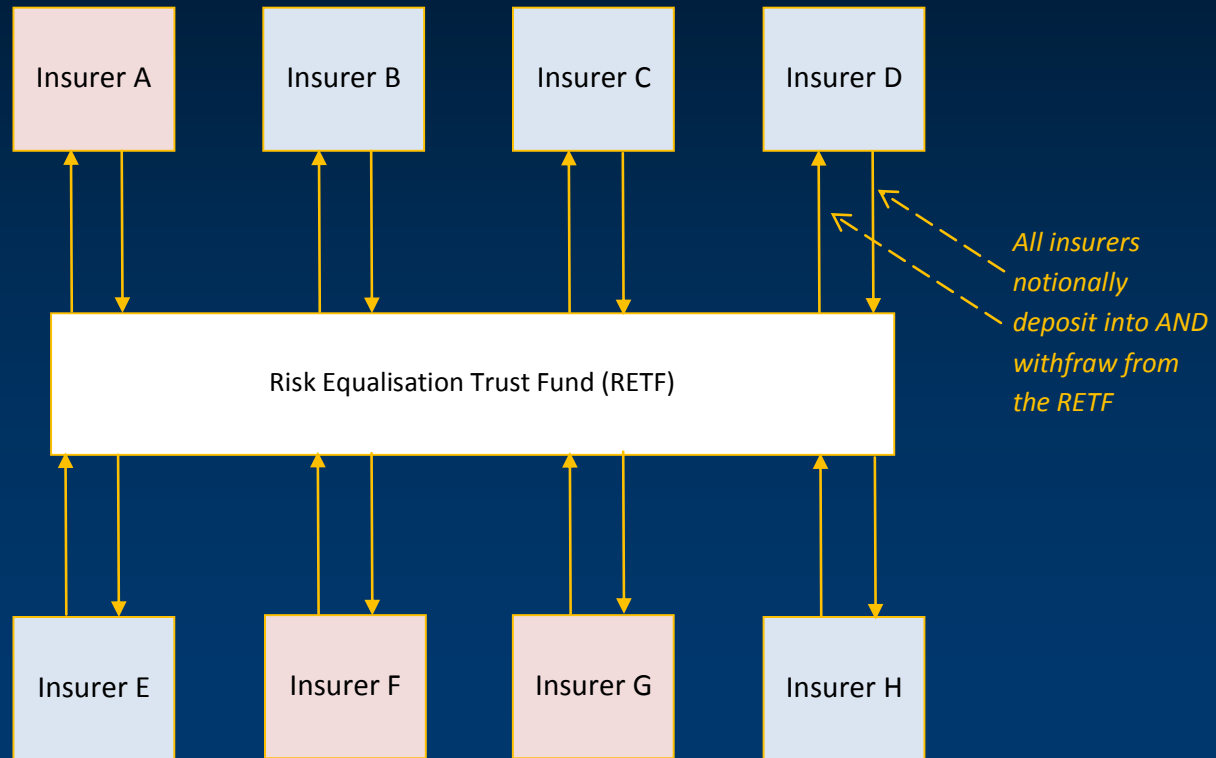
- Services covered under the Australian scheme (figures in parentheses are the proportion of the total benefits being equalised):
 - Hospital benefits (97.6%)
 - Hospital substitute benefits (0.05%)
 - Chronic Disease Management Program benefits (0.07%)
 - High Cost Claimant benefits (2.28%)

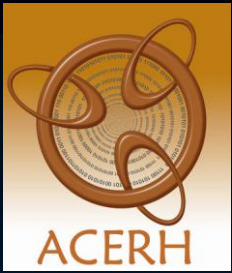


Flows

Sum of payments into the RETF = Sum of payments out of the RETF (zero sum game)

Individual insurers make or receive a net transfer, depending on claims experience





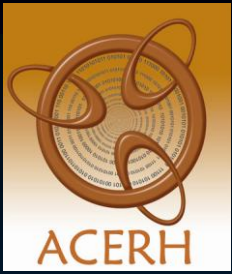
'Risk' vs. 'Claims cost'

- **Risk** equalisation:

A mechanism to equalise the **risk profiles** among insurers with the objective that the *ex-ante risk profiles* of each insurer become identical.

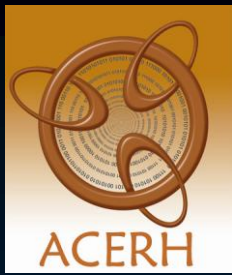
- **Claims cost** equalisation:

A mechanism to equalise the **claims cost** among insurers with the objective that the *ex-post costs* per person of each insurer become identical.



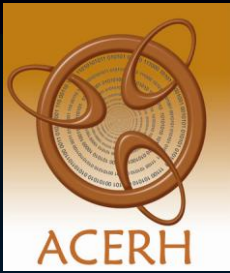
Effects of CE

- Highly imperfect matching with the ‘true’ risk structure of insurers’ population resulting in over/under compensations (i.e. misallocation of subsidies).
- Strong incentives for selection (historically a constant threat to the stability of PHI market in Australia).
- Lack of incentives for efficiency.



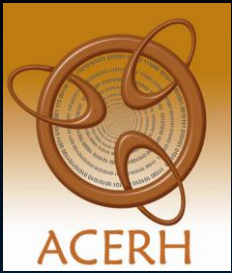
The preferred strategy

- Effects of 'PAS' and 'CE': reduction of incentives for efficiency;
- Effects of 'CRP': risk selection; and premium differentiation via product differentiation.
- Risk equalisation (*RE*) first-best strategy to escape from the tradeoffs between affordability, efficiency and selection (van de Ven & Schut 2008-7; Paolucci et al. 2006):
 - In the case of perfect risk equalisation there is no need for any other strategy and no tradeoff exists.
 - Each of the other strategies inevitably confronts policymakers with a tradeoff.



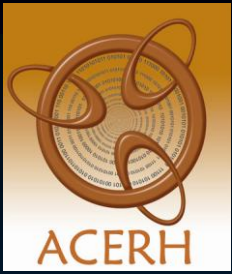
'Risk Equalisation'

	Australia	Ireland	South Africa
'RE': year of implementation	2007	No transfers (most recent regulations 2003)	planned for 2010, but legislation still not passed
Policy rationale for 'RE'	<ul style="list-style-type: none"> ▪ To support CRP (risk-solidarity) ▪ To increase industry stability i.e. prevent selection 	<ul style="list-style-type: none"> ▪ To support CRP (risk-solidarity) ▪ To increase industry stability 	<ul style="list-style-type: none"> ▪ To support CRP (risk-solidarity) ▪ To facilitate the introduction of Social Health Insurance
Risk factors	<ul style="list-style-type: none"> ▪ age ▪ health status proxy, i.e. a cap on the maximum insurer's costs per person over a rolling 12-month period. 	<ul style="list-style-type: none"> ▪ age, gender; ▪ reserve power for health status proxy, i.e. private bed nights. 	<ul style="list-style-type: none"> ▪ age; ▪ numbers with 25 defined chronic diseases, with HIV and with multiple chronic diseases; ▪ maternity events.



Part 3.

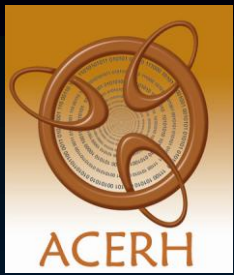
Conclusions and discussion



Similarities between A, I & SA

Similarities:

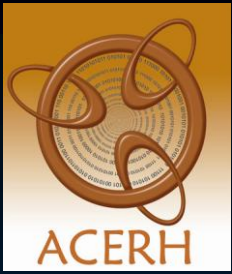
- Universal basic *public* system;
- Voluntary private health insurance (*VPHI*) market with consumer choice of ‘level’ of coverage and competition among ‘risk-bearing’ insurers;
- Regulation & *subsidies* in VPHI markets:
 - Restrictions on the ability of insurers to charge risk-related premiums (i.e. community rating);
 - Other incentives and subsidies in place for particular policy objectives.
 - *Risk equalisation*.



Differences between A, I & SA

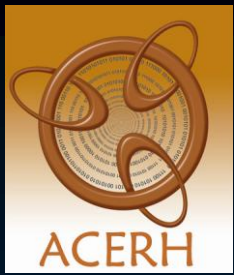
Differences:

- history;
- relative level of wealth;
- the role of VPHI in the overall health system;
-
- Definition of *'Risk Equalisation'*!



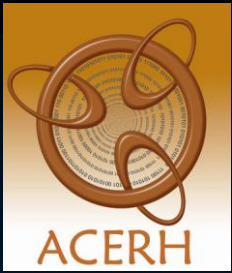
Conclusions and discussion

- *Risk selection* is a significant problem;
- In case of voluntary health insurance: *adverse selection* is an additional problem;
- Risk equalisation is very complex, both technically and politically; and also the *legal* issues;
- Community rating: goal or tool?
- Rationale for (subsidising) VPHI?
- From VPHI towards NHI?



Community rating: goal or tool?

- As a Goal: Each person in the community pays more or less the same premium.
- As a Tool: Regulation that creates predictable profits/losses, and thereby incentives for selection that undermines the goal of community rating;
- Are there more effective tools to achieve the goal?



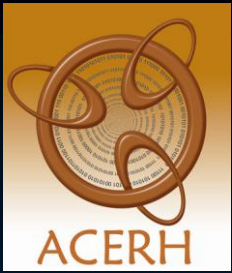
Rationale for (subsidising) VPHI?

1. What is the rationale for buying voluntary private health insurance (VPHI), given a universal basic public system?

Answer: to pass the queue and reduce waiting times and to receive care with better (perceived) quality.

2. What then is the rationale for subsidising (tax penalties, premium subsidies 30-40%, 'risk equalisation'), and regulating (open enrolment, community rating) VPVI?

Answer: reduce pressure on public system (& finance) and increase choice.

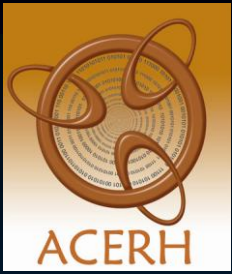


From VPHI to SHI?

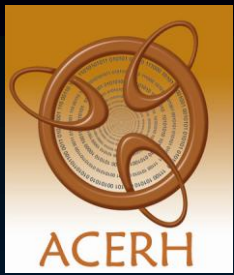
All 3-countries have been considering the introduction of *Social Health Insurance (NHI)* in the sense of universal mandatory insurance with consumer choice of (competing) health funds:

- **Australia:** National Health & Hospitals Reforms Commission (NHHRC) – “*Medicare Select*”;
- **Ireland:** Fine Gael’s “*FairCare*”;
- **South Africa:**
 - ‘*Social Health Insurance*’ proposed since 1994;
 - New elected Government in 2009: “within 5 years” National Health Insurance.

From VPHI to NHI: Preconditions

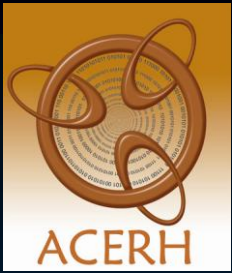


- Good *risk equalisation*;
- Effective competition policy;
- Consumer information (price, quality);
- Transparency (e.g. insurance products);
- Product classification system;
- Supervision of quality of care;
- Sufficient contracting freedom (price, quality, selective contracting);
- Political support (bi-partisan) for sequential implementation;
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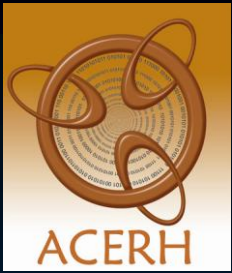
Risk equalisation is critical

- Good risk equalisation is an essential (but not the only) precondition to efficient competitive health insurance/provision markets (with open enrollment & community rating).
- Without good risk equalisation the disadvantages of competition might outweigh advantages of a competitive market.
- Risk equalisation should not only be based on age/gender, but also on health status.



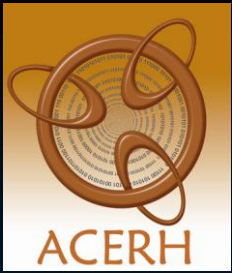
US reforms?

- The Patient Protection and Affordable Care Act (ACA) establishes various tiers of health insurance coverage for three *primary purposes*:
 - To set the **universal mandatory coverage for a minimum standardised package of services** (or pay a federal tax penalty beginning in 2014).
 - Premium and cost-sharing **subsidies** provided to lower and middle income people buying their own insurance in Exchanges.



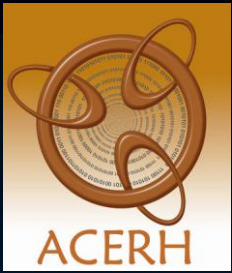
ACA (I)

- **Four actuarial value levels:** 60% (a bronze plan), 70% (a silver plan), 80% (a gold plan), and 90% (a platinum plan).
- The ACA also requires that plans cap the **maximum out-of-pocket costs** for enrollees, based on the out-of-pocket limits in high-deductible plans that are eligible to be paired with a Health Savings Account.
- Most people will be required to have insurance that is at least at the **bronze level** (a 60% actuarial value) or pay a federal tax penalty.



ACA (II)

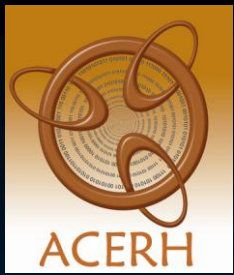
- People who buy coverage on their own through an Exchange and have family income up to four times the poverty level (\$89,400 for a family of four and \$43,560 for a single individual in 2011) may be eligible for **premium and cost-sharing subsidies**:
 - The premium subsidies are based on family income and the premium (adjusted for age) of the second lowest cost silver plan (70% actuarial value) in an Exchange.
 - Low and modest income people buying insurance in Exchanges may be eligible for coverage with a higher actuarial value and lower out-of-pocket maximum.



Subsidies

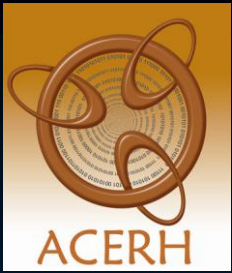
- a. Premium-related subsidies;
 - b. Cost-sharing subsidies;
 - c. Community rating per product.
- Effects of a and b: reduction of incentives for efficiency (e.g. premium inflation, moral hazard...);
 - Effects of c: risk selection; and premium differentiation via product differentiation.

Why not risk-adjusted subsidies?



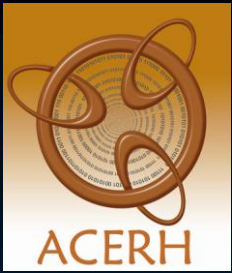
Universal Mandatory Coverage

- Many OECD countries have introduced *universal* mandatory coverage for a *uniform* benefits or services package (BP).
- Policy-makers see universal/uniform mandatory coverage as a *tool* to achieve the *goal* of affordable access to (the coverage of) health care services to vulnerable groups (e.g. low-income or high-risks individuals).



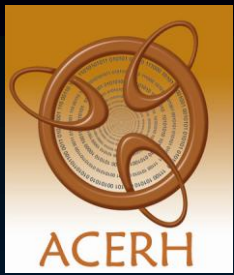
Problem

- If the financing/insurance of uniform BP is not sustainable/affordable for certain groups of individuals it does not make sense to mandate to buy it;
- If subsidies guarantee affordable access to health care services/coverage for vulnerable groups, what is the rationale for universal/uniform mandatory coverage?



Proposition

- Proposition: the arguments that motivate a system of mandatory cross-subsidies differ substantially from those that motivate mandatory coverage.
- What are the economic rationales for governments to enforce a system of mandatory cross-subsidies and to implement mandatory coverage for a set of predefined services?



Promising directions to proceed

- Single-option scheme with voluntary income-related deductibles (i.e. the higher the income, the higher the deductible).
- Allow insurers to risk rate & replace community rating by a premium rate band;
- Replace the premium and cost-sharing subsidies by risk-adjusted subsidies.

Effects:

- Less selection, both by consumers and by insurers;
- Policy goal of affordability more likely to be achieved;
- Increase incentives for efficiency (consumers, insurers).