

Pharmaceutical pricing and reimbursement policies: perspectives for the future

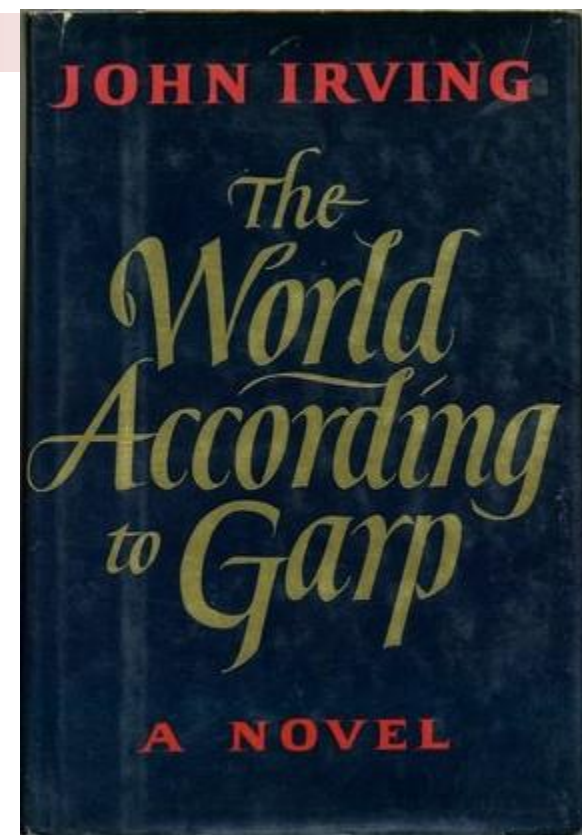


Andy Gray

Division of Pharmacology

Discipline of Pharmaceutical Sciences

Am I really here
at last?



Grillparzertorte



Outline

- Looking backwards – where have we come from, and why?
- The overwhelming demands of Universal Health Coverage (UHC) – all change
- South Africa as an exemplar
 - NDP 1996
 - Challenges, missteps and realignments
- The future – we're all in this together

Where have we come from, and why?

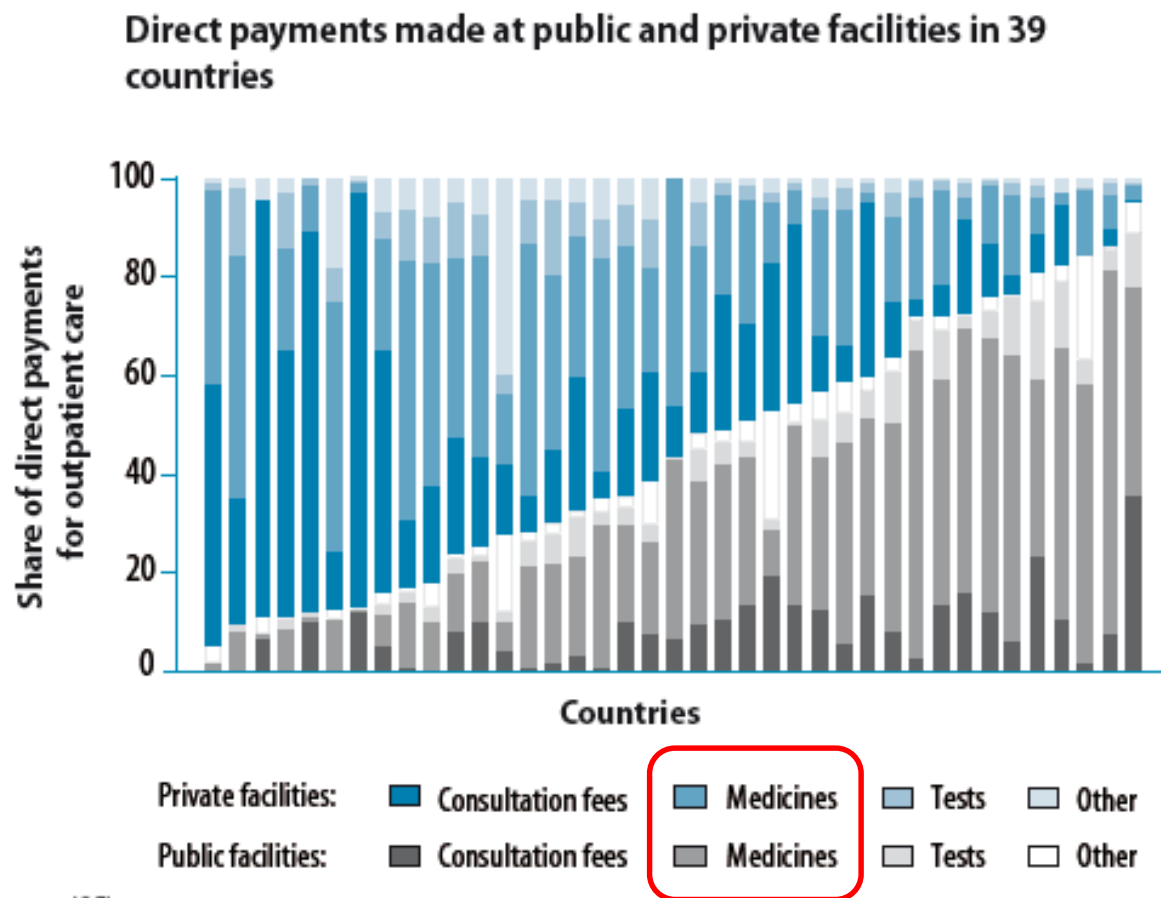
■ Developing countries

- Fragmented health systems
- Public sector funded by the fiscus + donor + user fees
- A national Essential Medicines List
- Public sector procurement based on competitive bids (tender), largely of generics
- Rational use assumed, based on guidelines

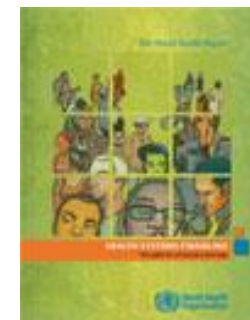
■ Developed countries

- National or social health insurance
- Purchaser-provider split
- Wide range of pricing interventions – generic policies, distribution chain price controls, co-pays (as a disincentive to overuse)
- Reimbursement, perhaps informed by Health Technology Assessment (HTA)

But are we ignoring the similarities?



Source (95).



World
Health
Report
2010

And what of industrial policies...

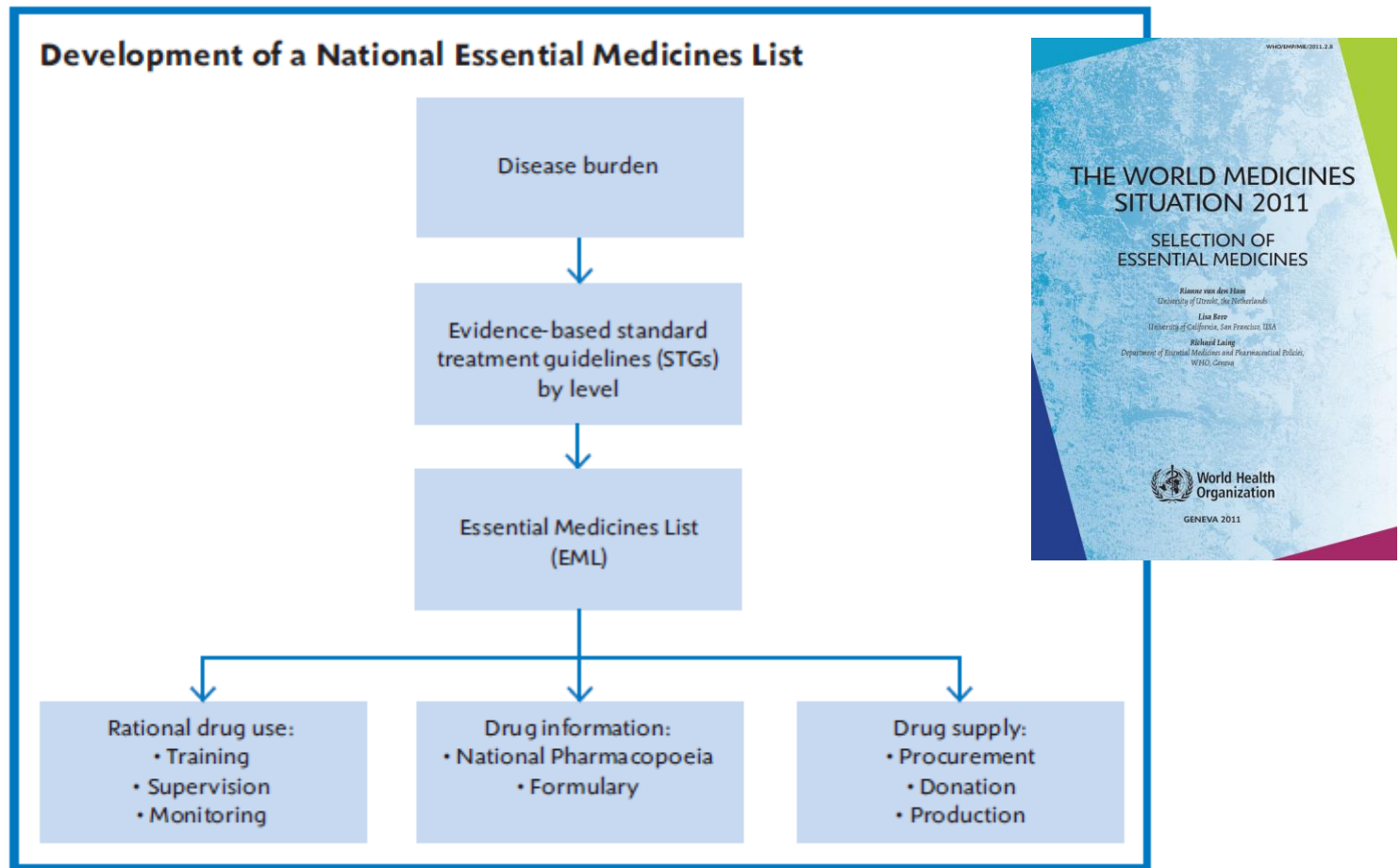
■ Developing countries

- Some nods to the need to stimulate local production capacity, but of subsidiary interest (or highly dependent on development partners)
- Locally-relevant innovation delinked from pharmaceutical policies

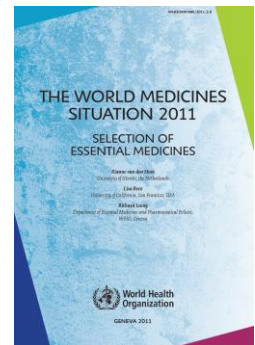
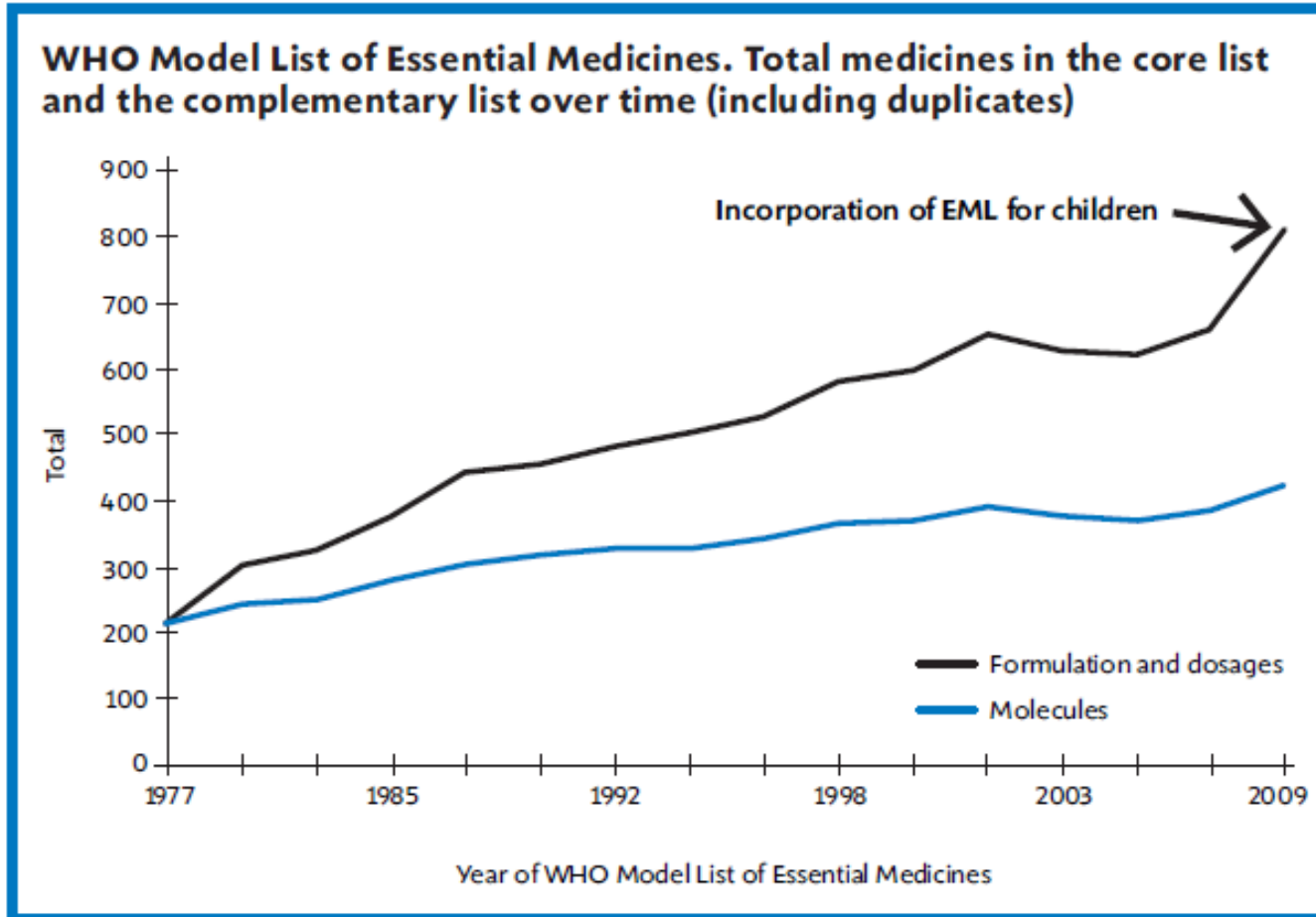
■ Developed countries

- In some settings (but by no means all), a strong pro-industry stance
- Innovation driven almost exclusively by the protection of intellectual property (IP)

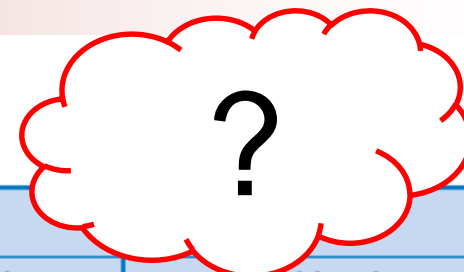
We all know this (in theory)



We have also watched this....



Details of national essential medicines lists by country income level

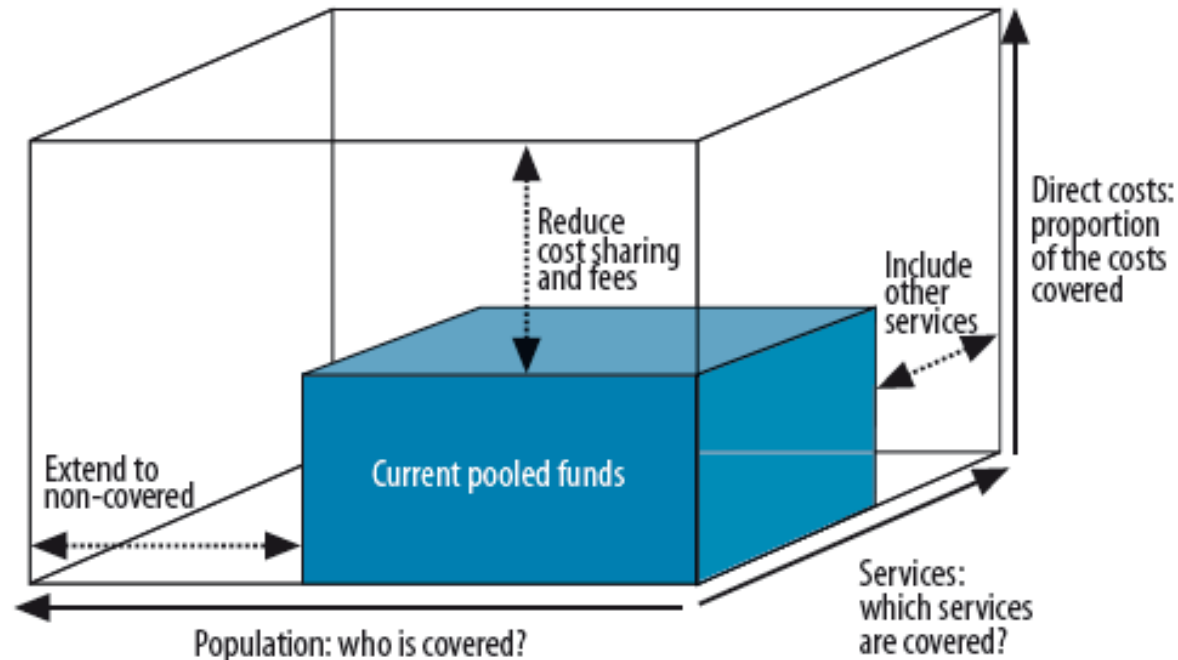


	Country income level ^a							
	Low (48)		Middle (73)		High (35)		Global (156)	
	yes/resp. countries	% yes	yes/resp. countries	% yes	yes/resp. countries	% yes	yes/resp. countries	% yes
Existence of national EML	48/48	100%	63/73	86%	23/34	68%	134/155	86%
Update of EML within last 5 years ^b	39/48	81%	54/73	74%	14/34	41%	107/155	69%
Use of EML in different sectors								
Public sector procurement	44/46	96%	59/65	91%	22/22 ^c	100%	125/133	94%
Public insurance reimbursement ^c	14/40	35%	20/50 ^c	40%	13/18 ^c	72%	47/108 ^c	44%
Private insurance reimbursement ^c	4/35	11%	6/49 ^c	12%	2/8 ^c	25%	12/92 ^c	13%
Committee for EML medicines selection	38/44	86%	59/67	88%	19/19 ^c	100%	116/130	89%
Number of medicines in EML	Median [25th, 75th percentile]		Median [25th, 75th percentile]		Median [25th, 75th percentile]		Median [25th, 75th percentile]	
	355		441		1706		397	
	[272, 384]		[350, 601]		[1143, 3272]		[334, 580]	
	n=34		n=52		n=8 ^c		n=94 ^c	

a. World Bank list

The challenge of UHC

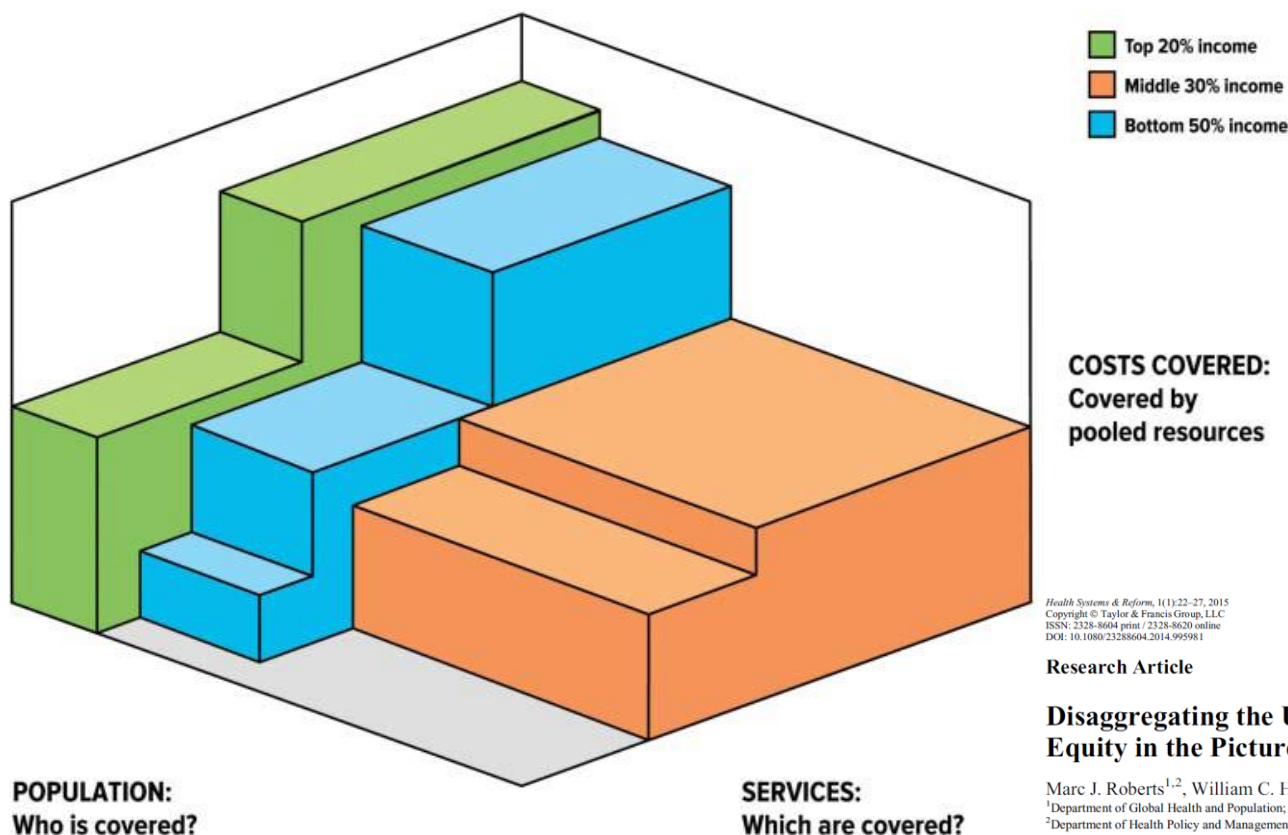
Three dimensions to consider when moving towards universal coverage



The World Health Report: health systems financing: the path to universal coverage. 2010

But don't forget this ...

Carefully....



Source: Authors

Health Systems & Reform, 1(1):22-27, 2015
Copyright © Taylor & Francis Group, LLC
ISSN: 2328-8604 print / 2328-8620 online
DOI: 10.1080/23288604.2014.995981

Research Article

Disaggregating the Universal Coverage Cube: Putting Equity in the Picture

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Do we have the evidence?

Int J Clin Pharm
DOI 10.1007/s11096-015-0156-6



REVIEW ARTICLE

The relevance of systematic reviews on pharmaceutical policy to low- and middle-income countries

Andrew Loftis Gray¹ · Fatima Suleman²

Received: 9 December 2014 / Accepted: 29 June 2015
© Koninklijke Nederlandse Maatschappij ter bevordering der Pharmacie 2015

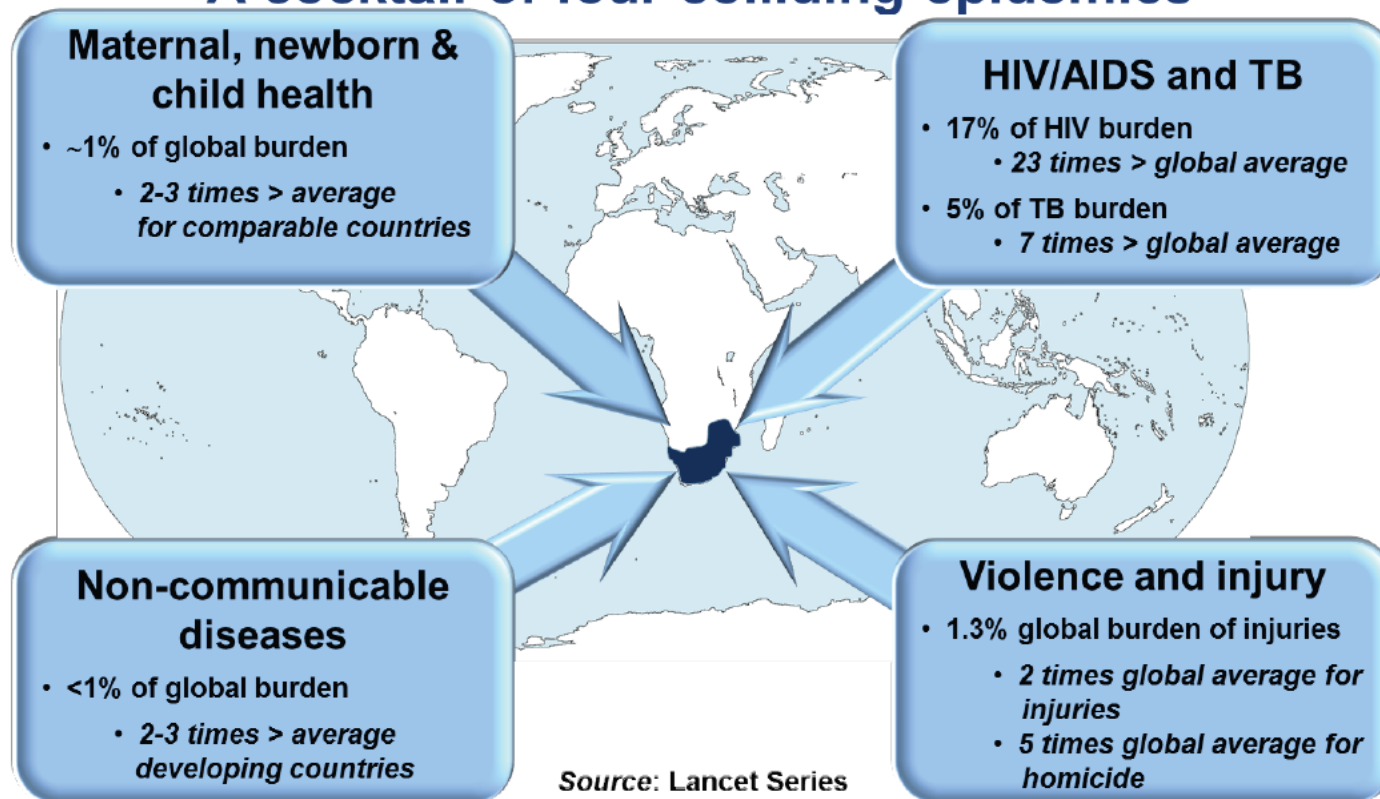


Unpacking the challenges of UHC

- a range of pharmaceutical pricing and reimbursement policies ...
- that also stimulate necessary and appropriate innovation ...
- that ensure a responsible and stable pharmaceutical industry, in alignment with national and regional industrial policies ...
- that are patient-centred and cognisant of human rights ...

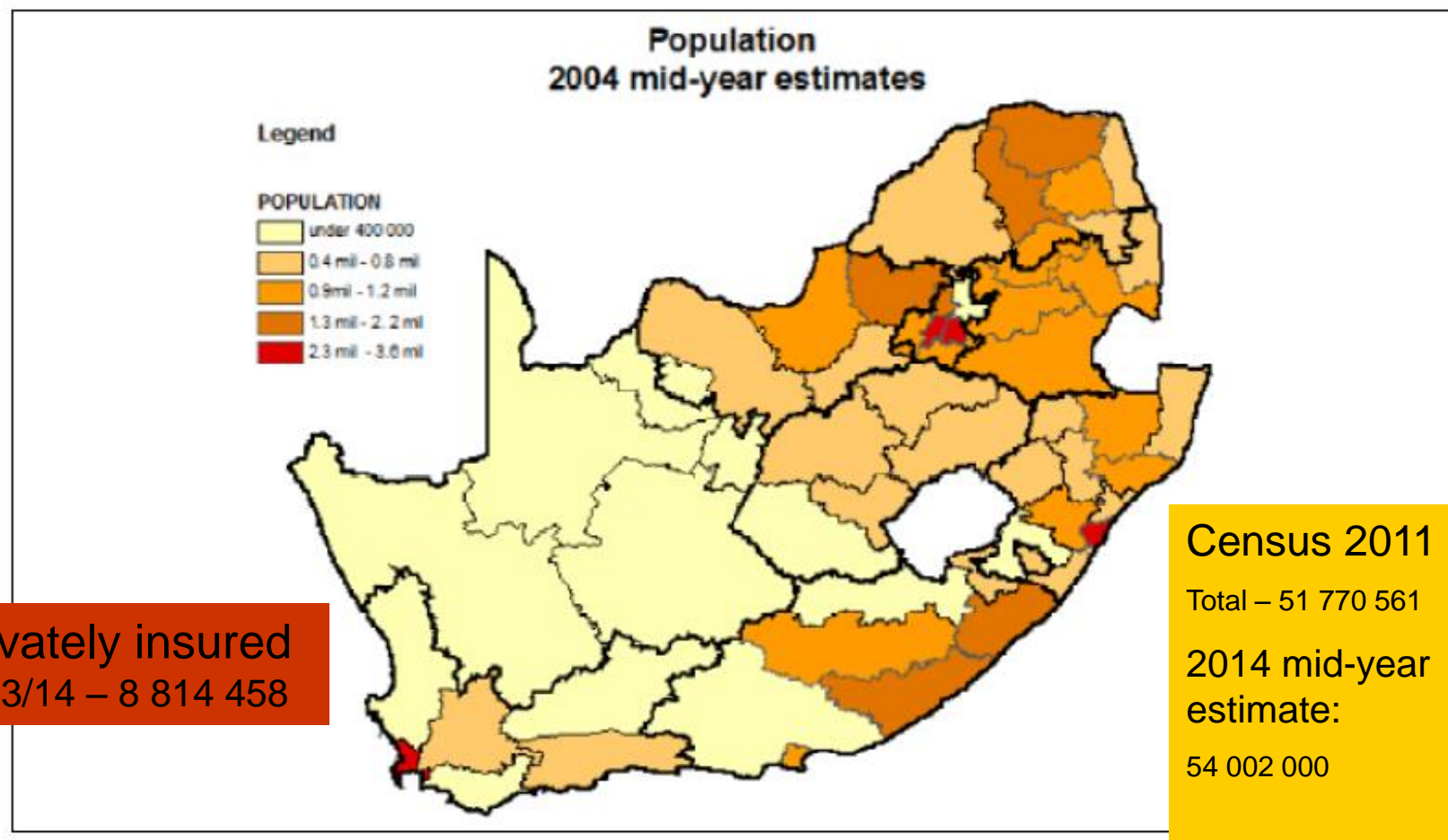
South Africa – an exemplar

The quadruple burden of disease in South Africa: A cocktail of four colliding epidemics



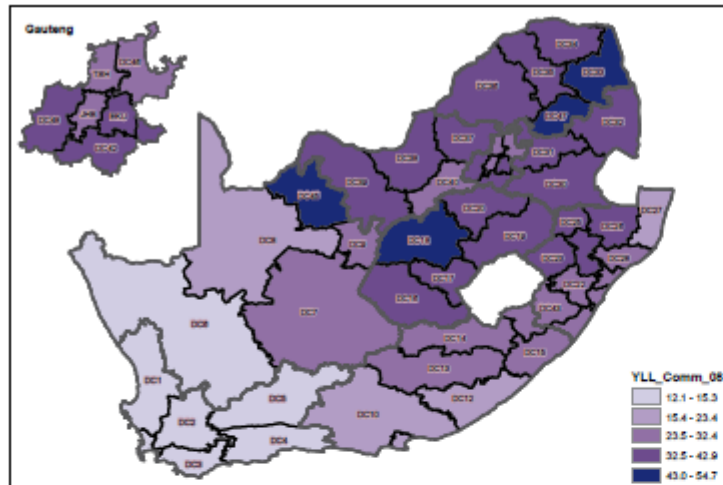
The district system – 52 districts

Map 1: Population by Health District in South Africa

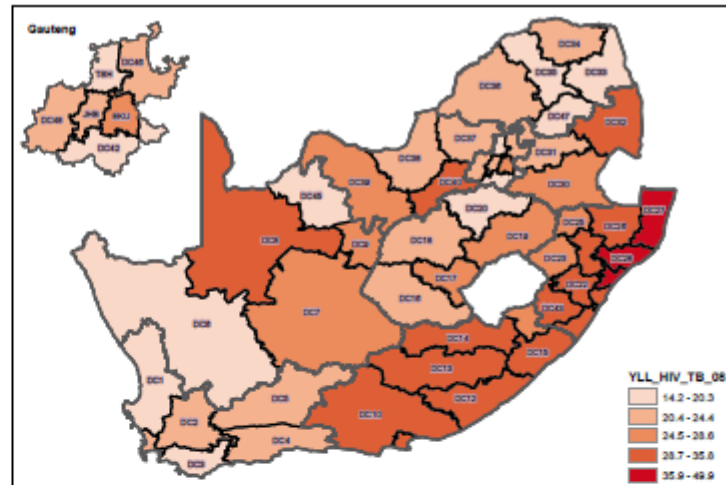


South Africa – unequal in every way

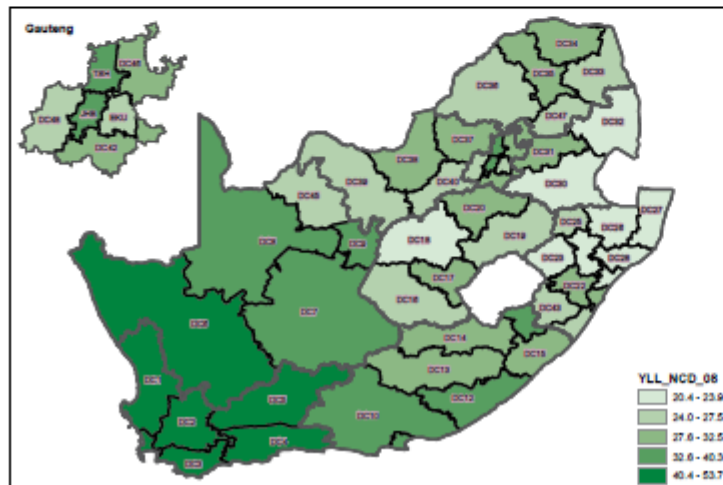
Comm/Mat/Peri/Nut



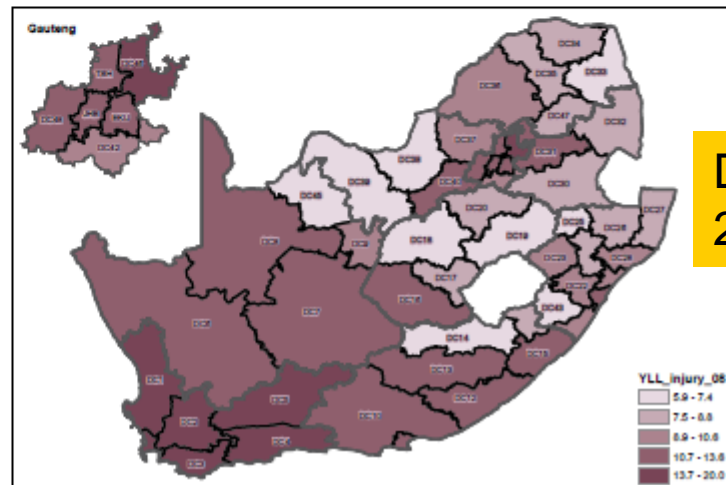
HIV and TB



Non-communicable diseases



Injuries



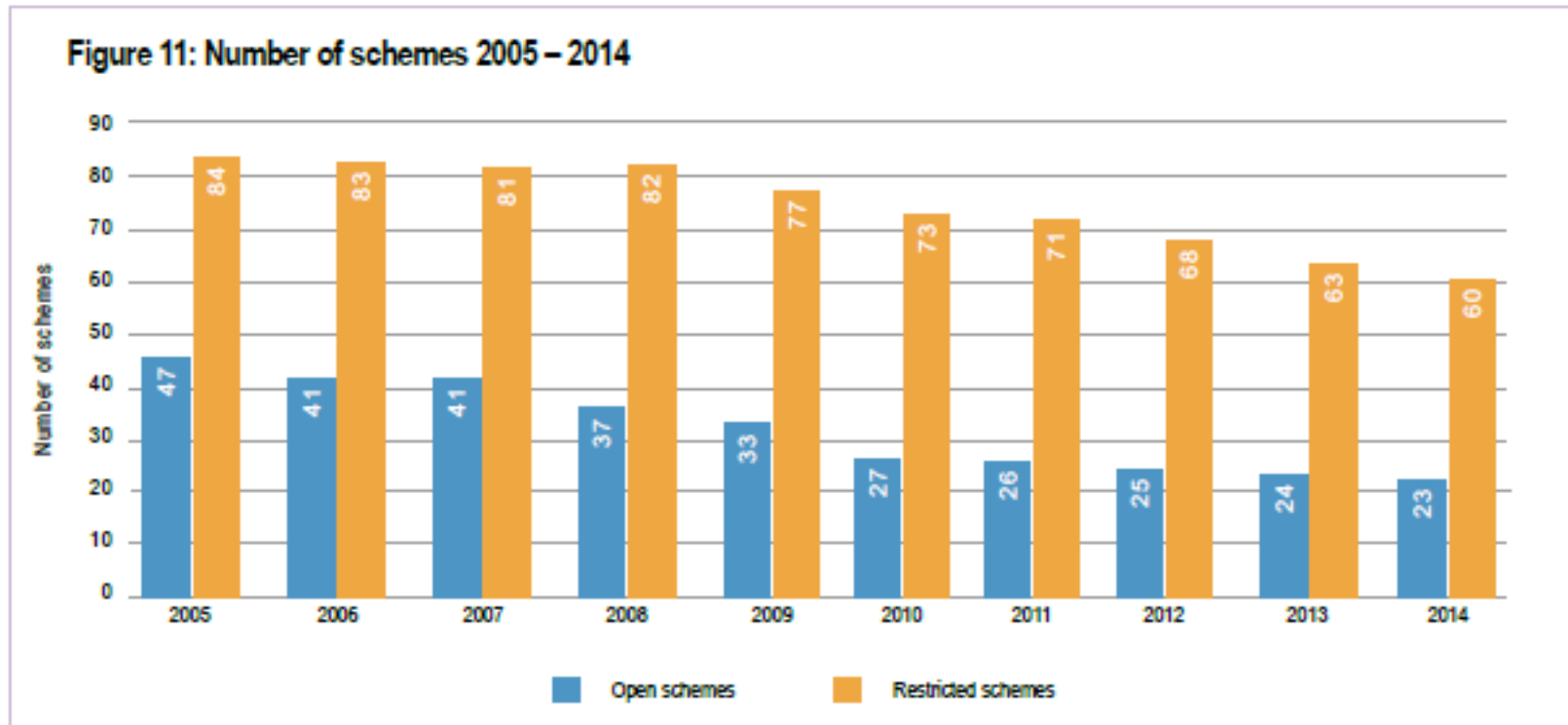
DHB
2011



HOW AIDS CHANGED EVERY THING

MDG 6: 15 YEARS, 15 LESSONS OF HOPE FROM THE AIDS RESPONSE

Slowly consolidating

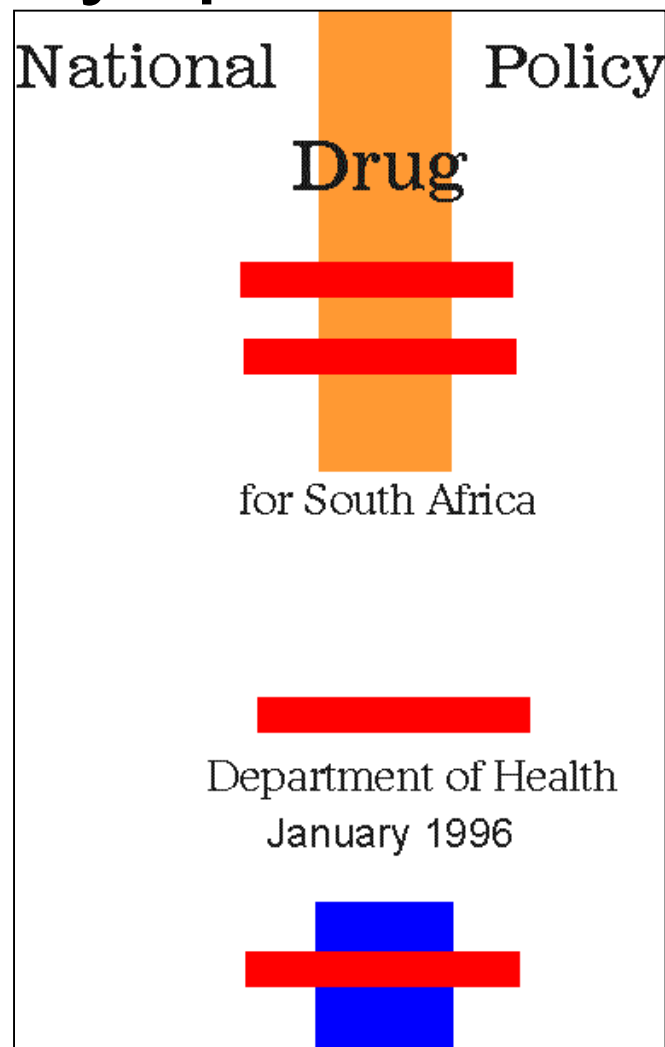


Number of benefit options:

All schemes: 3.3 Open schemes: 6.0 Restricted schemes: 2.3

Dr Dlamini-Zuma's 7 key questions

- To develop a pricing plan for drugs (public/private)
- To develop a plan to ensure all drugs are tested and evaluated for effectiveness
- To develop an Essential Drugs List and Standard Treatment Guidelines (pub)
- To develop a generics strategy
- To prepare a plan for effective procurement and distribution
- To investigate traditional medicines
- To rationalise the structure for Pharmaceutical Services



The National Drug Policy 1996

■ Health objectives

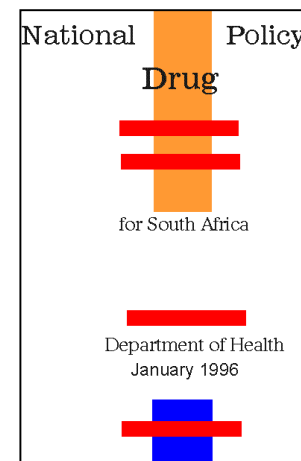
- To ensure the availability, accessibility of essential drugs to all
- To ensure the safety, quality and efficacy of all drugs
- To ensure good dispensing and prescribing
- To promote rational use by all
- To promote the concept of individual responsibility



NDP (2)

■ Economic objectives

- To lower costs in both sectors
- To promote cost effective and rational use
- To ensure complementary partnerships between government bodies and private providers in the pharmaceutical sector
- To optimise the use of scarce resources through international co-operation



NDP (3)



■ National development objectives

- To improve skills of pharmaceutical personnel
- To re-orient medical, paramedical and pharmaceutical education
- To support the development of local industry
- To build capacity in rational drug use, pharmacoeconomics and other aspects

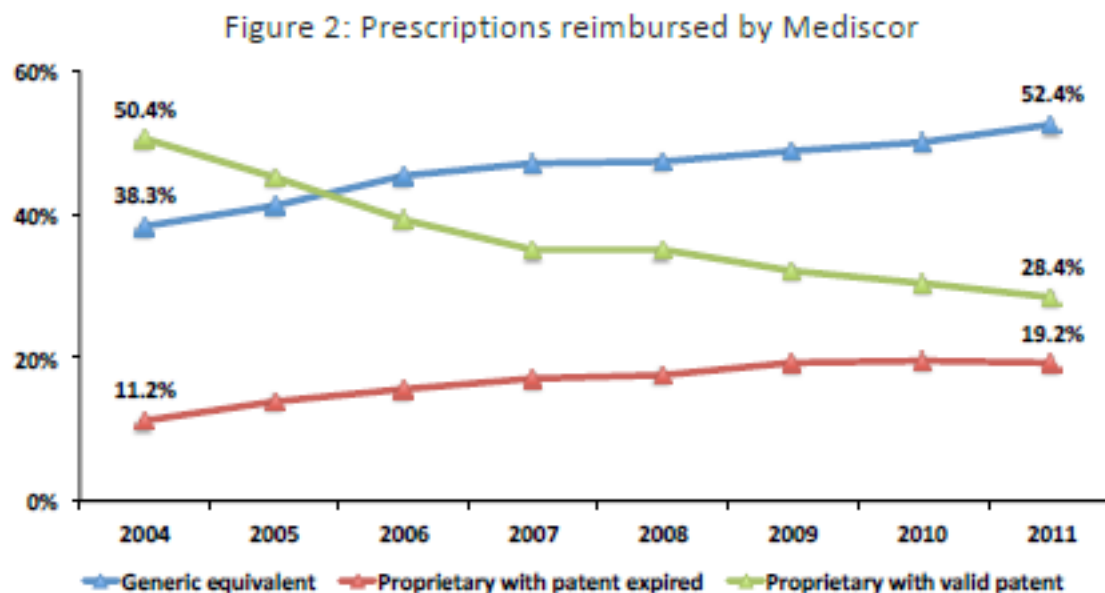


An immediate challenge

- 1997 – passage of the Medicines and Related Substances Control Amendment Act
- 1998 – interdicted by a court action
(Pharmaceutical Manufacturers' Association and Others vs. President of the Republic of South Africa and Others. Case no. 4183/98, High Court of South Africa (Transvaal Provincial Division))
- 2001 – case withdrawn by the applicants
- 2003 – promulgation of the Amendment Act (after a 2002 addition)

Elements of SA pricing intervention

- Mandatory offer of generic substitution, with some safeguards
 - Mainly affecting the private sector



Source: Mediscor 2012 (21)

SA pricing interventions

- A non-discriminatory single exit price, with a ban on volume discounts (and samples) (**only in the private sector**), maximum annual increases, maximum dispensing fees

Table 3. Medicine expenditure in the private-sector medical scheme (insured) environment

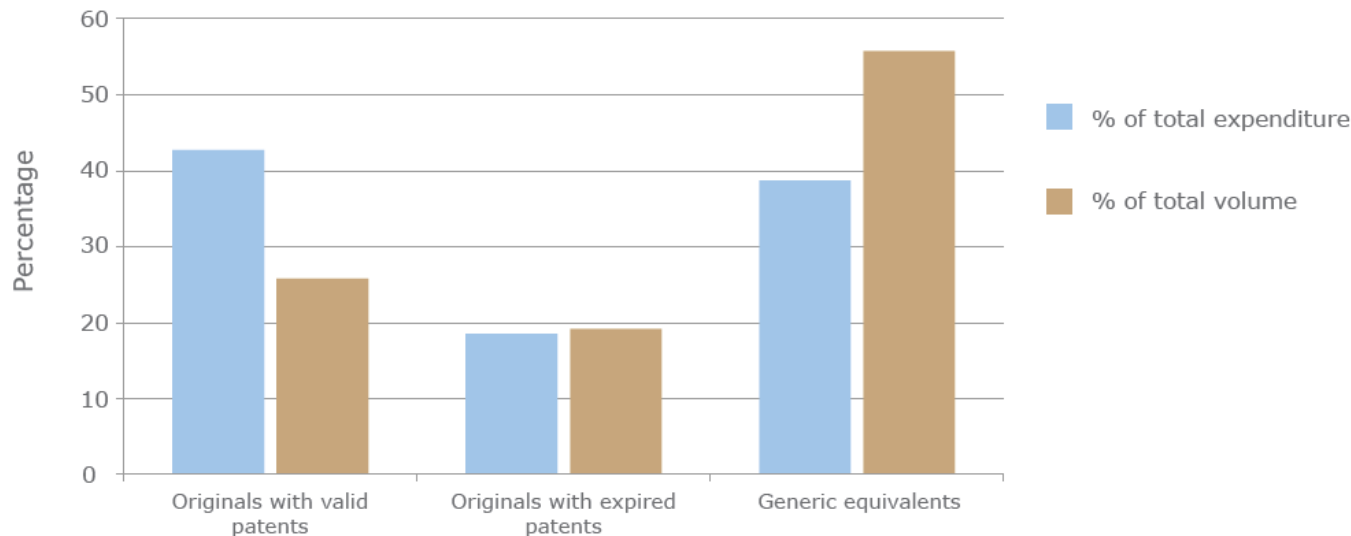
Year	% Expenditure on medicines	Medicine expenditure per beneficiary (annual) in South African Rand (unadjusted for inflation)	Annual maximum single exit price adjustments (%)*
2002	23.5	1206.39	–
2003	22.3	1241.93	–
2004	19.2	1156.79	–
2005	15.7	1053.31	–
2006	16.9	1220.65	–
2007	16.7	1257.01	5.2
2008	17.3	1422.25	6.5
2009	17.4	648.38	13.2
2010	17.0	1683.56	7.4
2011	16.3	1782.70	0
2012	15.8	1877.99	2.14
2013	16.0	2050.98	5.8

Source: Council for Medical Schemes Annual Reports 2002–2013.

Note: *The single exit price mechanism was announced in 2004 but was implemented only in 2006 and therefore adjustments came into effect as from 2007. Mandatory offer of generic substitution was implemented from 2003.

Dearth of data....but some hints

Figure 7 Expenditure and volume distribution by product type: 2014



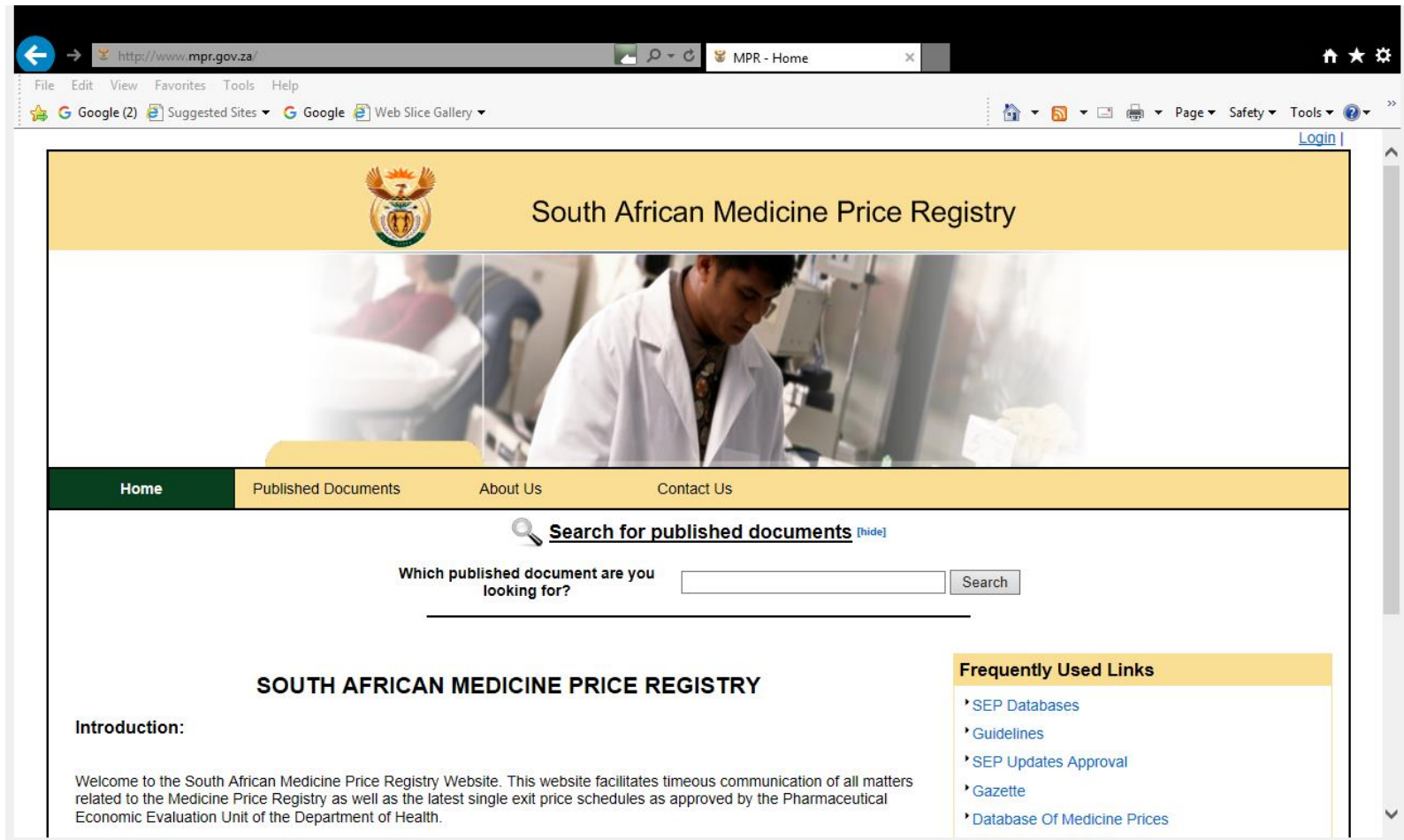
Patients and funders are increasingly being burdened by the rising costs associated with the use of speciality medicines, typically the high-cost biological medicines used to treat complex medical conditions. This phenomenon has been noted by many role players in the healthcare industry, both locally and internationally.

Medicines
Review 2014

w.mediscor.net

mediscor pbm
Pharmaceutical Benefit Management

Transparency – a key goal



Database Of Medicine Prices 24th September 2015 [Read-Only] [Compatibility Mode] - Excel

FILEHOMEINSERTPAGE LAYOUTFORMULASDATAREVIEWVIEWADD-INS

C9X/20.1.1/229

A dark corner - still

Database Of Medicine Prices																					
MCC Medicine Reg. No.	Nappi Code	ATC 4	Medicine Schedule	Proprietary Name	Active Ingredients	Strength	Unit	Dosage Form	Pack Size	Quantity	Manufacturer Price	Logistics Fee	VAT	SEP	Unit Price	Effective Date	Status	Originator or Supplier	Vol		
U4/104	703312001	N01BA	S4	Xylestesin-A	Lidocaine	20	mg/ml	INJ	50	1	161.09	26.42	26.25	213.76	4.28	27 March 2015		Originator			
A38/4/0430	710488001	N01BB	S4	Ubistesin	Articoaine	40	mg/ml	INJ	50	1	195.86	32.12	31.92	259.89	5.20	27 March 2015		Originator			
A38/4/0431	710497001	N01BB	S4	Ubistesin Forte	Articoaine	40	mg/ml	INJ	50	1	195.86	32.12	31.92	259.89	5.20	27 March 2015		Originator			
X/20.1.1/229	704032001	J01FA	S4	Clacee 250mg	Clarithromycin	250	mg	TAB	10	1	64.52	11.39	10.63	86.54	8.65	31 March 2015		Generic			
29/20.1.1/0163	704033001	J01FA	S4	Clacee 500mg	Clarithromycin	500	mg	TAB	10	1	68.26	12.04	11.24	91.54	9.15	31 March 2015		Generic			
29/20.1.1/0163	704033002	J01FA	S4	Clacee 500mg	Clarithromycin	500	mg	TAB	14	1	95.56	16.86	15.74	128.16	9.15	31 March 2015		Generic			
A39/7.1.3/0531	708279001	C09AA	S3	Mavik (was Gopten)	Trandolapril	4	mg	CAP	30	1	128.25	15.05	20.07	163.37	5.45	31 March 2015		Originator			
33/11.3/0027	710256001	A08AA	S5	Ectiva 10mg	Sibutramine hydrochloride	10	mg	CAP	30	1	153.00	27.00	25.20	205.20	6.84	31 March 2015		Generic			
33/11.3/0028	710257001	A08AA	S5	Ectiva 15mg	Sibutramine hydrochloride	15	mg	CAP	30	1	178.50	31.50	29.40	239.40	7.98	31 March 2015		Generic			
34/3.3/0178	710392001	R05CA	S2	Muculator	Acetylcysteine	200	mg	SAC	30	1	38.45	5.87	6.20	50.52	1.68	31 March 2015		Generic			
R/3.1/71	710849109	M01AE	S3	Brufen	Ibuprofen	600	mg	TAB	20	1	40.06	6.79	6.56	53.40	2.67	31 March 2015		Originator			
R/3.1/71	710849125	M01AE	S3	Brufen	Ibuprofen	600	mg	TAB	100	1	201.68	31.82	32.69	266.19	2.66	31 March 2015		Originator			
Q/3.1/323	710857004	M01AE	S3	Brufen Paediatric	Ibuprofen	100	mg/5ml	SUS	100	1	35.11	5.49	5.68	46.28	0.46	31 March 2015		Originator			
A39/7.1.3/0508	714624001	C09BB	S3	Tarka Bilayer	Verapamil HCl/Trandolapril	180	mg	TAB	30	1	259.97	30.46	40.66	331.10	11.04	31 March 2015		Originator			
A39/7.1.3/0547	714625001	C09BB	S3	Tarka Bilayer	Verapamil HCl/Trandolapril	240	mg	TAB	30	1	259.97	30.46	40.66	331.10	11.04	31 March 2015		Originator			
42/21.3/0670	716571001	H03A0	S3	Synthroid 25 µg	Levothyroxine Sodium	25	µg	TAB	90	1	40.10	2.41	5.95	48.45	0.54	31 March 2015		Originator			
42/21.3/0671	716574001	H03A0	S3	Synthroid 50 µg	Levothyroxine Sodium	50	µg	TAB	90	1	52.29	3.14	7.76	63.19	0.70	31 March 2015		Originator			
42/21.3/0673	716575001	H03A0	S3	Synthroid 88 µg	Levothyroxine Sodium	88	µg	TAB	90	1	66.24	3.97	9.83	80.05	0.89	31 March 2015		Originator			
42/21.3/0674	716576001	H03A0	S3	Synthroid 100 µg	Levothyroxine Sodium	100	µg	TAB	90	1	74.08	4.45	10.99	89.52	0.99	31 March 2015		Originator			

Database Of Medicine PricesSheet2Sheet3

READY75%

For every action, a reaction ...

- Potential incentive schemes to reward larger buyers
 - Data fees; co-marketing fees; off-invoice bonusing

STAATSKOERANT, 22 AUGUSTUS 2014		No. 37936 3
GOVERNMENT NOTICE		
DEPARTMENT OF HEALTH		
No. R. 642	22 August 2014	
MEDICINES AND RELATED SUBSTANCES ACT, 1965 (ACT NO. 101 OF 1965)		
GENERAL REGULATIONS RELATING TO BONUSING AND SAMPLING		
The Minister of Health, in consultation with the Pricing Committee, in terms of Section 35(1) of the Medicines and Related Substances Act, 1965 (Act No. 101 of 1965) intends to make the Regulations set out in the Schedule.		

International benchmarking

- Australia, New Zealand, Canada, Spain
- Two-phase introduction proposed

GOVERNMENT NOTICE

DEPARTMENT OF HEALTH

No. R. 354 12 May 2014

MEDICINES AND RELATED SUBSTANCES ACT (ACT NO. 101 OF 1965)

**REGULATIONS RELATING TO A TRANSPARENT PRICING SYSTEM FOR
MEDICINES AND SCHEDULED SUBSTANCES:
(BENCHMARK METHODOLOGY)**

The Minister of Health, in terms of Regulation 5(2)(e) of the Regulations relating to a Transparent Pricing System for Medicines and Scheduled Substances ("the Regulations"), as amended, and after recommendation from the Pricing Committee, intends to publish the methodology for medicines and scheduled substances prices to conform with international benchmarks.



Pharmacoeconomic submissions

- Guidelines for such submissions published in 2013
- Submission remains voluntary
- Consequences of the analysis by the Department of Health are somewhat unclear



EMBARGOED UNTIL 5h00 FRIDAY 12 AUGUST

NATIONAL HEALTH INSURANCE
IN SOUTH AFRICA

POLICY PAPER

NHI Green Paper published for comment in August 2011

White Paper (the final version) expected “imminently”

GOVERNMENT NOTICE

No. 657

DEPARTMENT OF HEALTH

12 August 2011

NATIONAL HEALTH ACT, 2003

POLICY ON NATIONAL HEALTH INSURANCE

The Minister of Health intends, in terms of section 85 of the Constitution of the Republic of South Africa, 1996 (Act No.108 of 1996) and section 3 of the National Health Act, 2003, (Act No. 61 of 2003) after consultation with the National Health Council, to determine the policy in the Schedule.

Interested persons are invited to submit any substantiated comments or representations on the proposed policy to the Director-General: Health, Private Bag X828, Pretoria, 0001, within a period of two months from the date of publication of this notice.

A long gestation

- Commission on Old Age Pension and National Insurance (1928)
- Committee of Enquiry into National Health Insurance (1935)
- National Health Service Commission (1942 – 1944) - **Gluckman**
- Health Care Finance Committee (1994)
- Committee of Inquiry on National Health Insurance (1995) - **Broomberg-Shisana**
- The Social Health Insurance Working Group (1997)
- Committee of Inquiry into a Comprehensive Social Security for South Africa (2002) - **Taylor**
 - Ministerial Task Team on Social Health Insurance (2002)
- Polokwane Resolution 53 (2007)
- Advisory Committee on National Health Insurance (2009)
- And 14 years to go, fromwhen?

So what has to change?

■ Public sector

- Based on centralised tender system, a standard EML (usually 1 product per class; often 1 supplier)
- No purchaser-provider split
- Almost no user fees
- No other pricing policies

■ Private sector

- Some pricing policies in place (generics)
- Disparate (and at times illogical or even perverse) reimbursement lists
- Some internal reference pricing
- Many issues pending





Other elements to consider

- Significant manufacturing capacity
- A commitment to build the local industry, including active pharmaceutical ingredient (API) production; vaccine capacity
- A slow process to reform intellectual property policies (SA already TRIPS+)

Some observations on the future

#1: we're all in this together

“Trastuzumab price would need to decrease between 69.6 percent to 94.9 percent to become CE in LA.”

International Journal of Technology Assessment in Health Care, 31:1/2 (2015), 2–11.
© Cambridge University Press 2015
doi:10.1017/S0266412215000094

Assessments

IMPLICATIONS OF GLOBAL PRICING POLICIES ON ACCESS TO INNOVATIVE DRUGS: THE CASE OF TRASTUZUMAB IN SEVEN LATIN AMERICAN COUNTRIES

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Mario del Pilar Navia Bueno

Universidad de San Andrés

Alarico Rodríguez

Fondo Nacional de Recursos (FNR)

Carlos José Coelho de Andrade

Brazilian National Cancer Institute-ANCA

Jefferson Antonio Buendía

Department of Pharmacology, School of Medicine, University of Antioquia

Michael Drummond

Centre for Health Economics, University of York



Some observations on the future

#2: expanding the process of health technology assessment to low- and middle-income countries?

- greater transparency
- data sharing
- publication of models that can be repopulated with locally-determined cost data
- application of this suite of methods to the selection and appropriate pricing of the bulk of reimbursed medicines, as well as to new and expensive medicines

Some observations on the future

#3: greater emphasis on the means to ensure responsible use of medicines



The responsible use of medicines means:

- *That a medicine is only used when necessary and that the choice of medicine is appropriate based on what is proven by scientific and/or clinical evidence to be most effective and least likely to cause harm. This choice also considers patient preferences and makes the best use of limited healthcare resources.*
- *There is timely access to and the availability of quality medicine that is properly administered and monitored for effectiveness and safety.*
- *A multidisciplinary collaborative approach is used that includes patients and those in addition to health professionals assisting in their care.*



Some observations on the future

#4: more attention to systems which allow for a reliable estimate of the value of medicines under typical use

BUT, performance-based pricing must not provide a fig-leaf behind which unacceptable launch prices can be hidden



Some observations on the future

#5: reimbursement policies and processes will also need to be measured against their effects on responsible use, and adjusted where their effects are shown to be perverse and not in the interests of patients

#6: consideration will need to be paid to the effect of pricing and reimbursement policies on necessary and appropriate innovation

Finally

- Standing still is not an option, and complacency is entirely unwarranted

