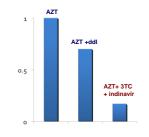
## Scaling up access to treatment for HCV: lessons from HIV

Melbourne, 18-19 July 2014

Dr Nathan Ford



#### The treatment revolution: 1996





 Greater mortality reduction than observed with penicillin for treatment of bacterial sepsis

Fischi MA et al, New Engl J Med 1987, Lancet 1997, Hammer SM et al, New Engl J Med 1997



# Challenges to scaling up access to antiretroviral therapy

- Affordable medicines
- Simplification
- Models of delivery
- Funding
- Tracking progress
- Civil society



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4 Public health, innovation and intellectual property



## **Access to fluconazole**

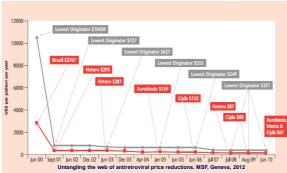
Manufacturer	Country	Price (\$US)
Biolab	Thailand	(0.29 )
Cipla	India	0.64
Pfizer	Thailand	6.20
Pfizer	South Africa	8.25
Pfizer	Kenya	10.50
Pfizer	USA	12.20
Pfizer	Guatemala	27.60

Perez et al, Lancet 2000





## **Cost of Antiretroviral therapy**



### Mechanisms to improve access to ART

- Increased funding and emergence of a generic ARV market creating economies of scale
- Political will at national and international level; political activism
- Creation of the UN/WHO prequalification programme
- Compulsory and voluntary licenses
- Creation of the Medicines Patent Pool
- Patent oppositions in key producing countries
- Price reductions and price negotiations, including by bulk purchasers
- Enhanced price transparency: WHO Global Price Reporting Mechanism, MSF Untangling the Web report....



Voluntary licenses in the area of HIV/AIDS						
Company	Medicine	Indication	Geographical scope	No of licensees	No of countries	
BMS	ATV ddl; d4T	HIV/AIDS	SSA, India	7 >3	48 50	
Boehringer- Ingelheim	NVP;TPV	HIV/AIDS	All Africa, LDC, LIC; India	Several	75	
Gilead / MPP	TDF (+FDC) EVG COBI	HIV/AIDS	Country list	Several; unlimited with MPP	112 100 103	
MSD (Merck)	EFV RAL	HIV/AIDS	SA SSA, LIC	6 2	1 60	
Roche	SQV	HIV/AIDS	SSA; LDC	13	65	
Tibotec (J&J)	DRV RIL(+FDC)	HIV/AIDS	SSA; LDC Country list	1 5	65 112	
ViiV (GSK& Pfizer)	AZT; 3TC; ABC pediatric ABC (with	HIV/AIDS	SSA; LDC; LIC Country list	11	68 118	

Recent compulsory licenses & government use						
Country	Medicine	Indication	Measure	Period	Royalties	Remarks
Ecuador	Abacavir+la mivudine	HIV/AIDS	Gov use	2012	5% of US price adjusted by diff. in GDP	Local prod.
Indonesia	Seven products	HIV/AIDS; hepatitis	Gov use	2012	0.5%	Local prod.
India	Sorafenib	Cancer	CL	2012	6%	Local prod.
Ecuador	Ritonavir	HIV/AIDS	Gov use	2010	0.42% of US price	Import; local prod.
Thailand	erlotinib; letrozole; docetaxel; clopidogrel; lopinavir/rito navir	Cancer; heart disease; HIV/AIDS	Gov use	2006-2008	3-5%	Import
Brazil	Efavirenz	HIV/AIDS	Gov use	2007	1.5%	Import & local prod.
Thailand	Efavirenz	HIV/AIDS	Gov use	2006	0.5%	Import

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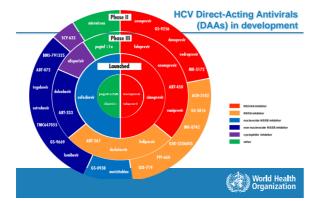


### More is not necessarily better

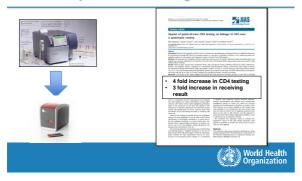


## Towards a single, prefered once daily pill





## Simplification of diagnostics



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#### Health worker distribution

Density per 100,000 population

	Physicians	Nurses	Pharmacy personnel
Low income	2.4	5.4	0.5
Lower-middle income	7.8	17.8	4.2
Upper-middle income	15.5	25.34	3.1
High-income	29.4	86.9	8.4

WHO, World Health Statistics 2014



## Task shifting to address health worker shortage



Expansion of primary-care nurses' roles to include ART initiation and prescribing can be done safely, and improve health outcomes and quality of care





#### **Decentralization of care**



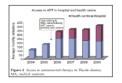
Long distance to services associated with:

- -Poor uptake
- -Poor adherence
- -Loss to follow-up



# Better outcomes through decentralization of ART service delivery





Attrition lower at health centres

Time to ART initiation decreased from nearly 100 days to <3 weeks

Kredo et al, Cochrane Database of systematic reviews, 2013; Bemelmans et al. TMIH, 2010



### Task shifting and decentralization for HCV



#### **ECHO** project, New Mexico

Comparison of outcomes at primary care clinics versus dedicated hepatitis clinics

- SVR: 58% PHC vs 58%: HCV clinic
- SAEs: 14% PHC site vs 7%: HCV clinic

Arora, NEJM 201



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#### guardian.co.uk

#### Government u-turn on Aids crisis

Emphasis to move from prevention to treatment

Sarah Boseley, health editor The Guardian, Wednesday 26 November 2003 02:33 GMT

In a radical policy change the government is now prepared to hard drug treatment for the millions in poor countries who will otherwise do in the coulating HIV/Adds epidemic, development externey History from recordal systerating. Clare Short, his predocessor, insided that the priority of the Department for international Development (DFID) had to be presenting our compaigns and building the handbases infrastructure of developing countries. But Mr Bons, at a UN bridging to reveal alerming figures on the epidemic, was trank in his admission that the policy hat changed.

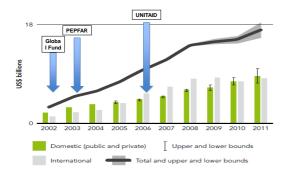
Behind the n-turn in the drup in the price of drugs as the major pharmaceutical companies have been forced to respond to the public outry over their relative high cost in the developing world. Yesterday's report revealed that 40 million people - some eminates say of a million - are now infected, mostly in poor countries, and three million died last year alone.

"We should have done more sooner, and we could all be doing more now"

DFID, November 2003



#### Resources available for HIV in lowand middle-income countries, 2002–2011

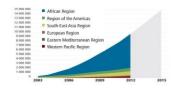


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#### **Global Access to Treatment**

• Nearly 13 million people on ART by end of 2013



WHO, Global Treatment Report



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## **Evolving role of civil society**

# Activism Care provision Watchdog

Barrier	HIV 2010	HIV 2014	HCV 2014
Limited data on epidemiological situation in low and middle-income countries			
High stigma and discrimination			
Lack of political and financial commitment			
Complexity of drug regimens, high pill burden Side effects that complicate adherence			
Complexity of screening, treatment and follow-up monitoring			
High cost of drugs and tests			
Highly specialized vertical services			
Limited patient and community engagement			

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