

Market Access: Understanding the Private Sector

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Access Challenge

 Make sure that new regimens reach patients

- AAA Mandate
 - Affordability
 - Availability
 - Adoptability



New Regimen Adoption Needs Help of SHA

- Timing of past regimen change
- Process & timing for revising global guidelines
- Feasibility of early diagnosis of TB & resistance
- Quality of treatment delivery system
- Champions of new regimens

TB Alliance's Market Access Strategy

- Know the TB market
- Form partnerships
- Learn from other product introductions
- Prepare for moxifloxacin introduction
- Develop MDR strategies
 - Help launch planning of TMC 207
 - Publicize economic case for new regimens

Understanding the TB Market

- Pathway to Patients (with IMS, 2006)
 - Understand flow of TB drugs in high burden & high income countries
 - Size the 2007 global TB drug market
- Value Proposition Study (with IMS, 2007)
 - What TB stakeholders would value, tolerate, or reject with regards to a new, shorter first-line TB regimen
- Country Introduction Study (with MSH, 2008/09)
 - Key issues in 22 High Burden Countries
 - Understand process of regimen change
- **Patient Study** (2010-11)
 - Document patient opinion about current and future regimens



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Tuberculosis regimen change in high-burden countries

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BACKGROUND: Experience with past tuberculosis [T regimes changes can guide future regimes changes. METHODS: To explore the process, major players as procedural success factors for recent public sector. T regimes changes, we conducted 166 interviews of contry stateholders in 21 of the TB high-barden country (HBCs).

[HBGA].

RESULYS: Stakeholders described 40 distinct regime changes for drug-susceptible TB. Once countries con mitted to considering a change, the average timing war—1 year for decision-making and 2-2 years for rol out. Stakeholders more often cited concerns that were program-based (e.g., logistics and cost) rather that patient-focused (e.g., side) (fexes), and patient represent ratios were selded on part of decision making. Decision

able to the control of the control o

CONCLUSIONS: Future decision makers will benet from strengthened decision-making bodies, patient inpu early and comprehensive planning, and regimens and ev dense that address local, practical implementation issue KEY WORDS: regimen change; tuberculosis druge; hig burden countries

THE DEVELOPMENT of new drugs for tuberculosis (TB) is an identified global priority; 2 but adoption will undoubtedly bring challenges. For TB regimen change, existing examples can provide guidance for future efforts. In the present study, we examine control experiences with regimen change in 21 of the 22 high TB burden countries.

Regimens for drug-susceptible TB have been shor ened based on clinical trials* and altered due to wide spread human immunodeficiency virus (HIV) infetion, leaving the two main variants as 2HRZE/self, and 2HRZE/self, "The World Health Organizatio (WHO) initially recommended both," but then fi Some of the resulting changes from 0 to 6 nonregimens are documented in this enday, as it the addregimens are documented in this enday, as it the add-ITB drugs, FIDC process monotherapy, if and can is plify regimens for patients, physicians, and procunered and durbulous systems, thus potentially he ing to reduce medications errors and stock-contraing, to reduce medications errors and stock-contraing circumenter for the second stock of the coning evidence for this is secare, ¹⁶¹¹ Adoption of FID shas sometimes been delayed by the lack of accountter of FILC with process bought and the contraction of FILC with process bought and the to FILC with process bought and the second of the total contraction of the con-

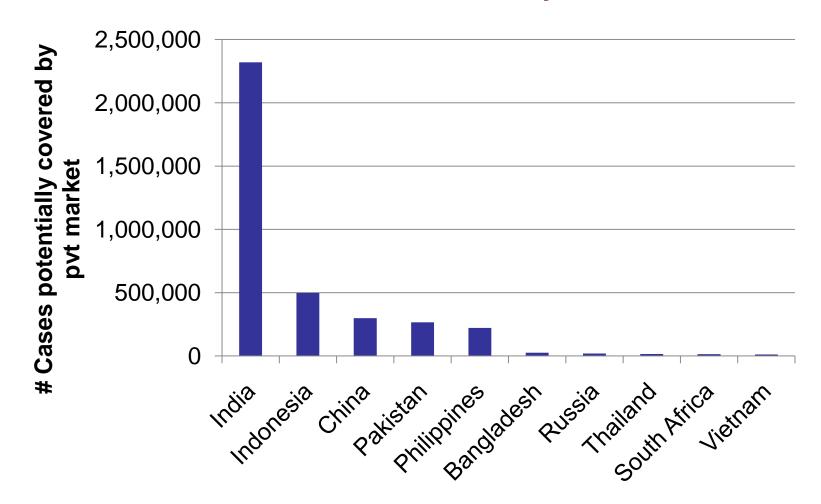
Decision making during regimen change re-



Private Sector Study (2010)

- All high burden countries with IMS' private sector drug sales data (except Brazil)
 - India, China, Indonesia, South Africa,
 Bangladesh, Pakistan, Philippines, Russia,
 Vietnam & Thailand
- All 1st and 2nd line drugs on WHO list plus ciprofloxacin, gatifloxacin & clofazamine
- Seeking information about affordability, uptake, availability of WHO recommended treatments in private sector

Drug



1st Line

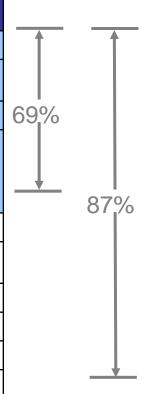
Drug

Form

4 Manufacturers Make Most FDCs

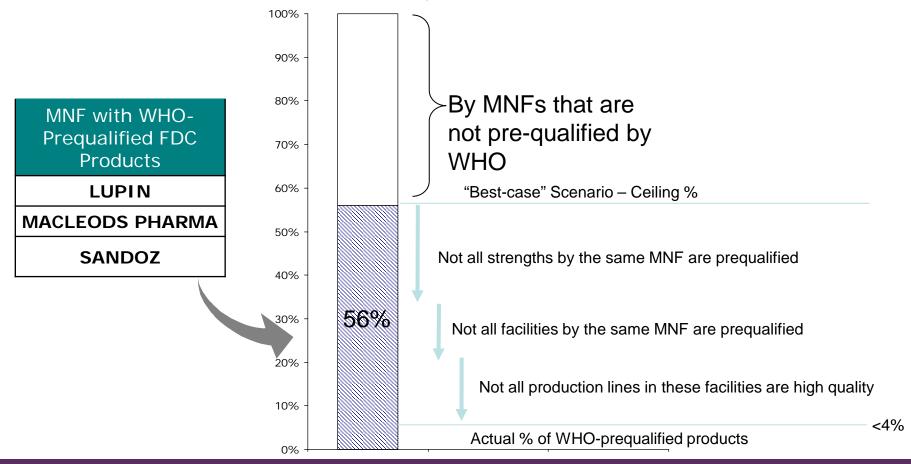
Top 10 manufacturers make 87% of FDC volume in 10 countries; top 4 manufacturers make 69%

MNF	Country of Coverage	Total FDC Volume	% FDC Vol
LUPIN	India, Vietnam	232,678,238	28.3%
MACLEODS PHARMA	India	132,452,038	16.1%
WYETH	Philippines, Pakistan	101,865,910	12.4%
SANDOZ	India, Indonesia, Philippines, Bangladesh, SA, Thailand, Vietnam, Pakistan	98,503,468	12.0%
CONCEPT PHARMA	India	40,115,330	4.9%
SCHAZOO ZAKA PVT L	Pakistan	31,391,860	3.8%
MEDICHEM PHARM	Philippines	24,025,800	2.9%
NATRAPHARM	Philippines	22,686,800	2.8%
PLETHICO	India	19,407,291	2.4%
OVERSEAS	India	14,655,442	1.8%



Major Manufacturers Capable of Quality If Purchasers/Regulators Demand It

% of FDCs that could be made to WHO-PQ Standards



Drug

of FDCs of Different Strengths

Country	RH	HE	HZ	RHE	RHZ	RHZE
India	15	2		8	15	8
Philippines	7	4		3	3	2
Pakistan	5	3		3	4	2
Indonesia	3	6			1	1
Bangladesh	5				4	1
Vietnam	3	1		1	1	1
South Africa	4				1	1
Thailand	2				1	1
Russia	1	1	1			1
China	1				1	

Total in Country
48
19
17
11
10
7
6
4
4
2

10-country Total	20	13	1	11	18	11
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74

Some 2nd line drugs are missing

Category	API	Bangladesh	China	India	Indonesia	Pakistan	Philippines	Russia	SA	Thailand	Vietnam
	Streptomycin										
	Capreomycin										
	Amikacin										
	Kanamycin										
Fluoroquinolones	Ofloxacin										
	Moxifloxacin										
	Levofloxacin										
	Protionamide										
	Ethionamide										
	Terizidone										
	Cycloserine										
	Aminosalicylic Acid										

Grey= units available; White= units not available

• Capreomycin and the oral bacteriostatic agents are often not available, for any indication.

Private Sector Market

First Line

- Private sector provides large volume of treatments and can't be ignored
- Capability to make quality FDCs is there, but only if demanded by purchasers or regulators
- Small number of manufacturers influence most of the FDC market

Second Line

- Not too many MDR
 patients being treated in
 the private sector, at least
 with a full regimen
- Scale up a real challenge in some countries due to lack of availability



Scale up Costs of MDR-TB

- Cost of MDR-TB drugs per patient \$2000-9000
- WHO projected cost of treating 357,000 people with MDR-TB in 2015: US\$2.7 b
- Lower cost of a new MDR regimen is crucial to effective scale up



Savings with New MDR-TB Regimen

- Cost of new regimen would be no more than 10% of current drug costs
- Potential to save billions on drug treatment costs alone
- Further savings on health systems costs from shorter treatment, no hospitalization
- Could provide complete regimen to at least 1.2 million patients for the same cost as drugs for 150,000 patients today