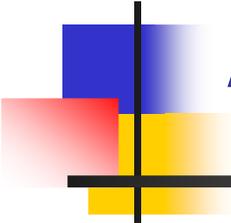


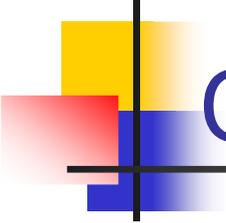
Indicators to Measure Pharmaceutical System Performance and Medicines Access



Dennis Ross-Degnan, ScD

Harvard Medical School and Harvard Pilgrim Health Care Institute
WHO Collaborating Center on Pharmaceutical Policy, Boston

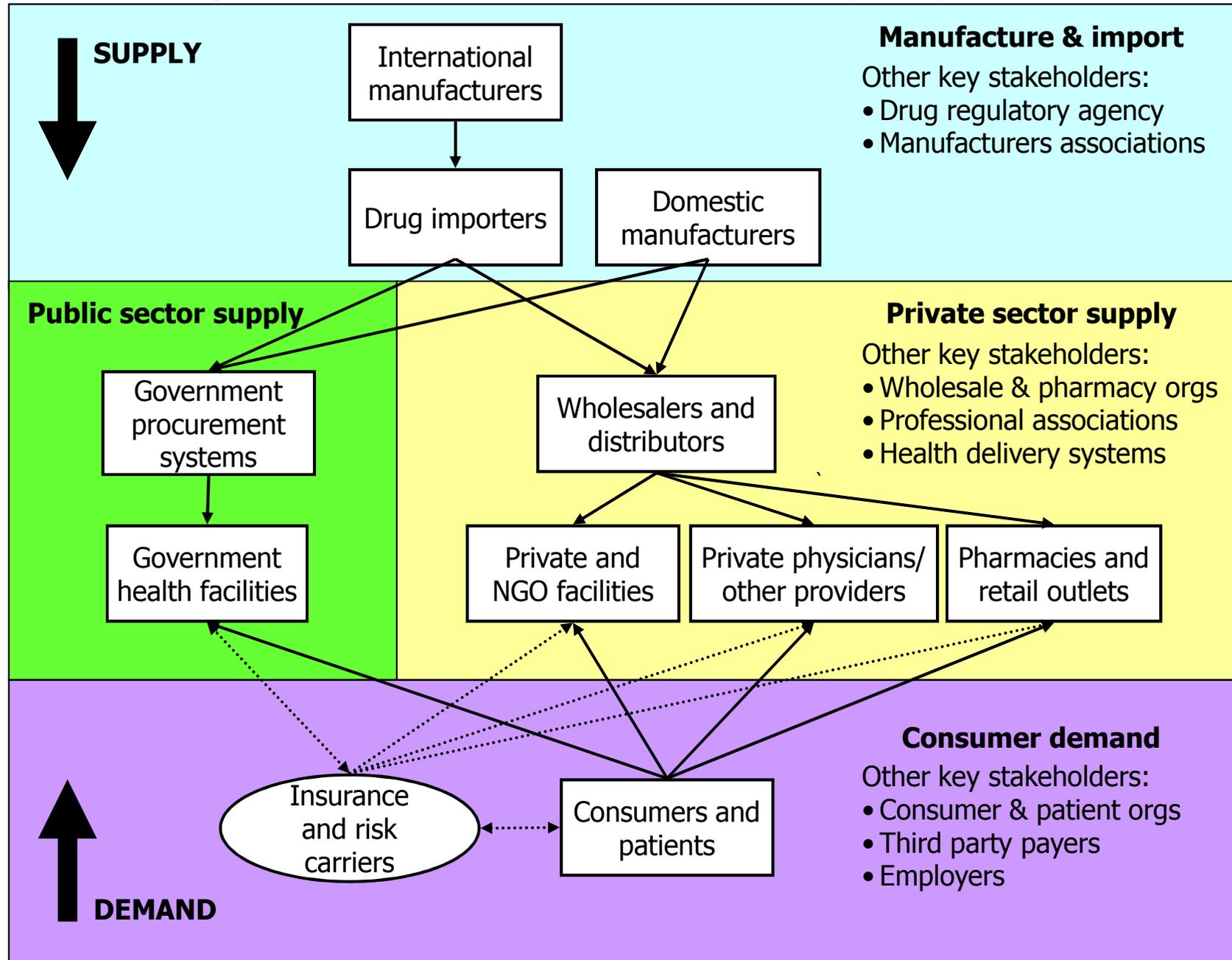
Pharmaceutical Policies and Evaluation Indicators
in the Region of the Americas
Pan American Health Organization, Dec 10, 2009



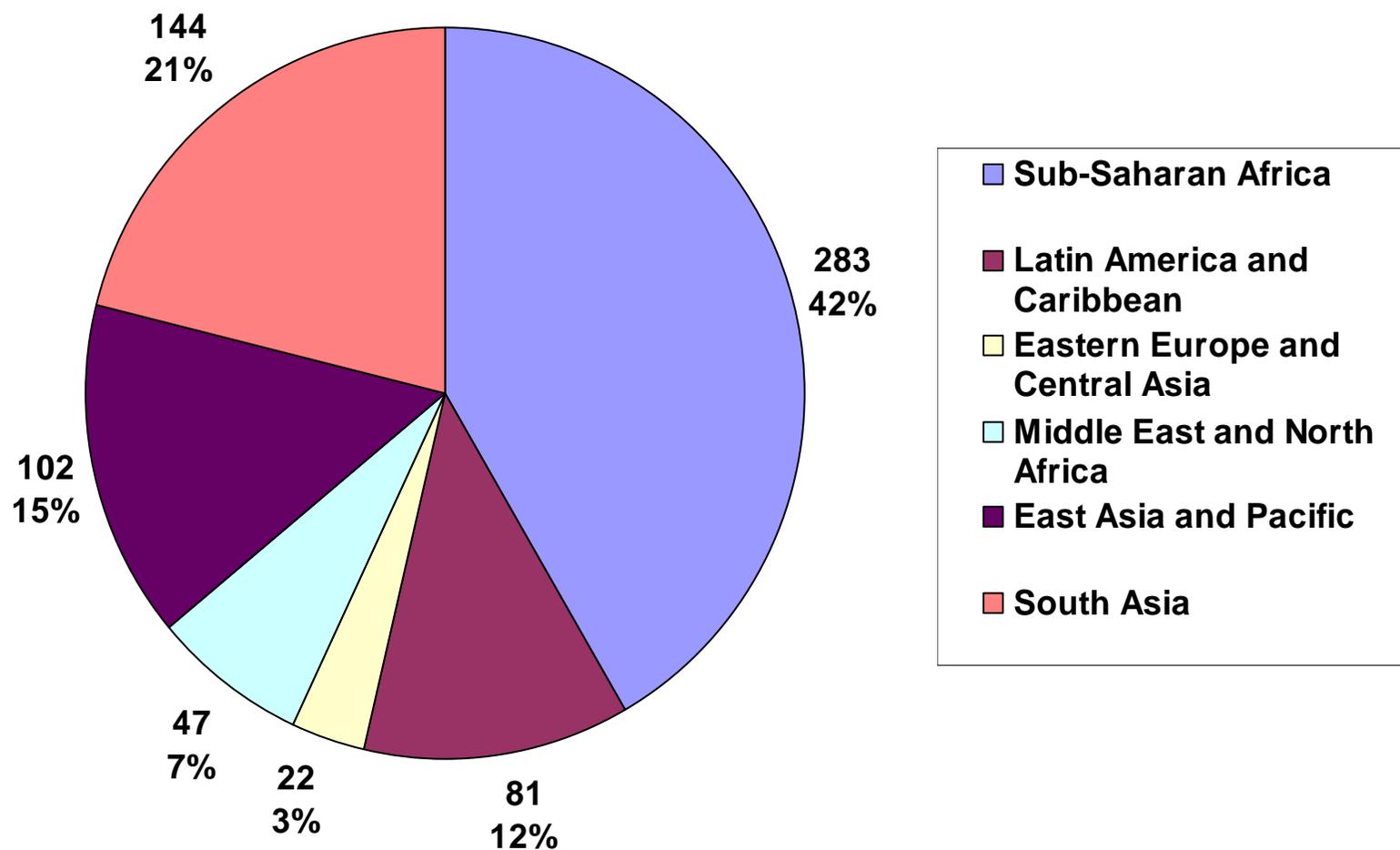
Overview

- Medicine use indicators
 - WHO/INRUD indicators
 - Disease specific indicators
 - Intervention effectiveness
- Pharmaceutical sector indicators
 - MeTA baseline surveys
 - Future developments in WHO monitoring
 - WHO-MeTA Community assessment
- Need for pharmaceutical sector observatory for the Americas?

Leverage Points for Pharmaceutical Policy Implementation

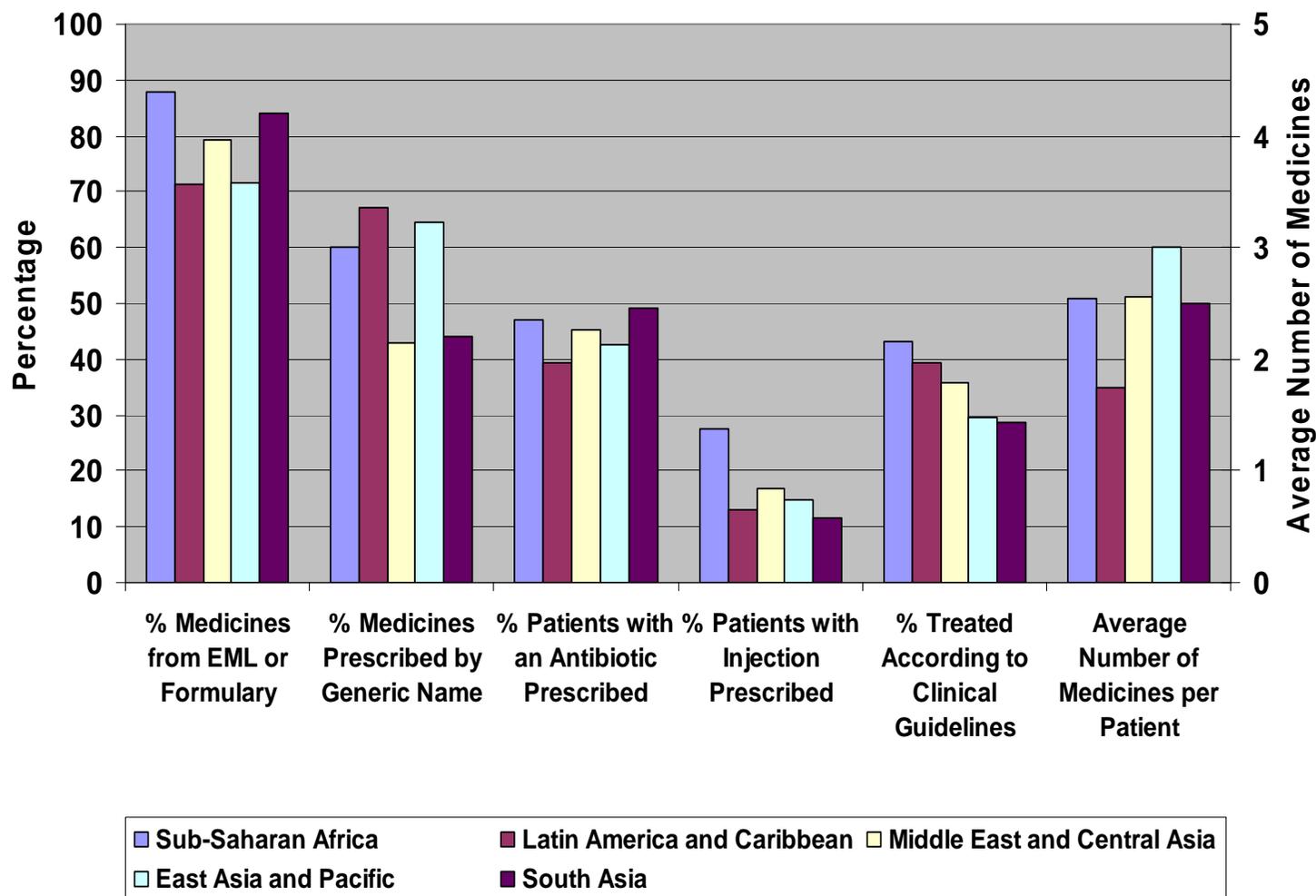


Medicine Use Studies in WHO Database by Region, 1990-2006

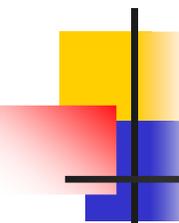


Source: Medicine use in primary care (WHO/EMP/MAR/2009.3)

WHO/INRUD Core Prescribing Indicators, by region, 1990-2006

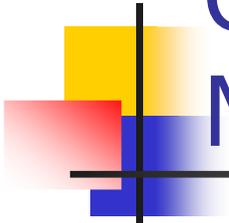


Source: Medicine use in primary care (WHO/EMP/MAR/2009.3)



Additional WHO-INRUD Medicine Use Indicators

- Patient care indicators
 - Average consultation time
 - Average dispensing time
 - Percentage of medicines actually dispensed
 - Percentage of medicines adequately labeled
 - Percentage of patients with knowledge of correct dose
- Facility indicators
 - Availability of EML or formulary to practitioners
 - Availability of clinical guidelines
 - Percentage of key medicines available in a facility
- Complementary medicine use indicators
 - Average medicine cost per encounter
 - Percentage of prescriptions in accordance with clinical guidelines
- Illness-specific indicators

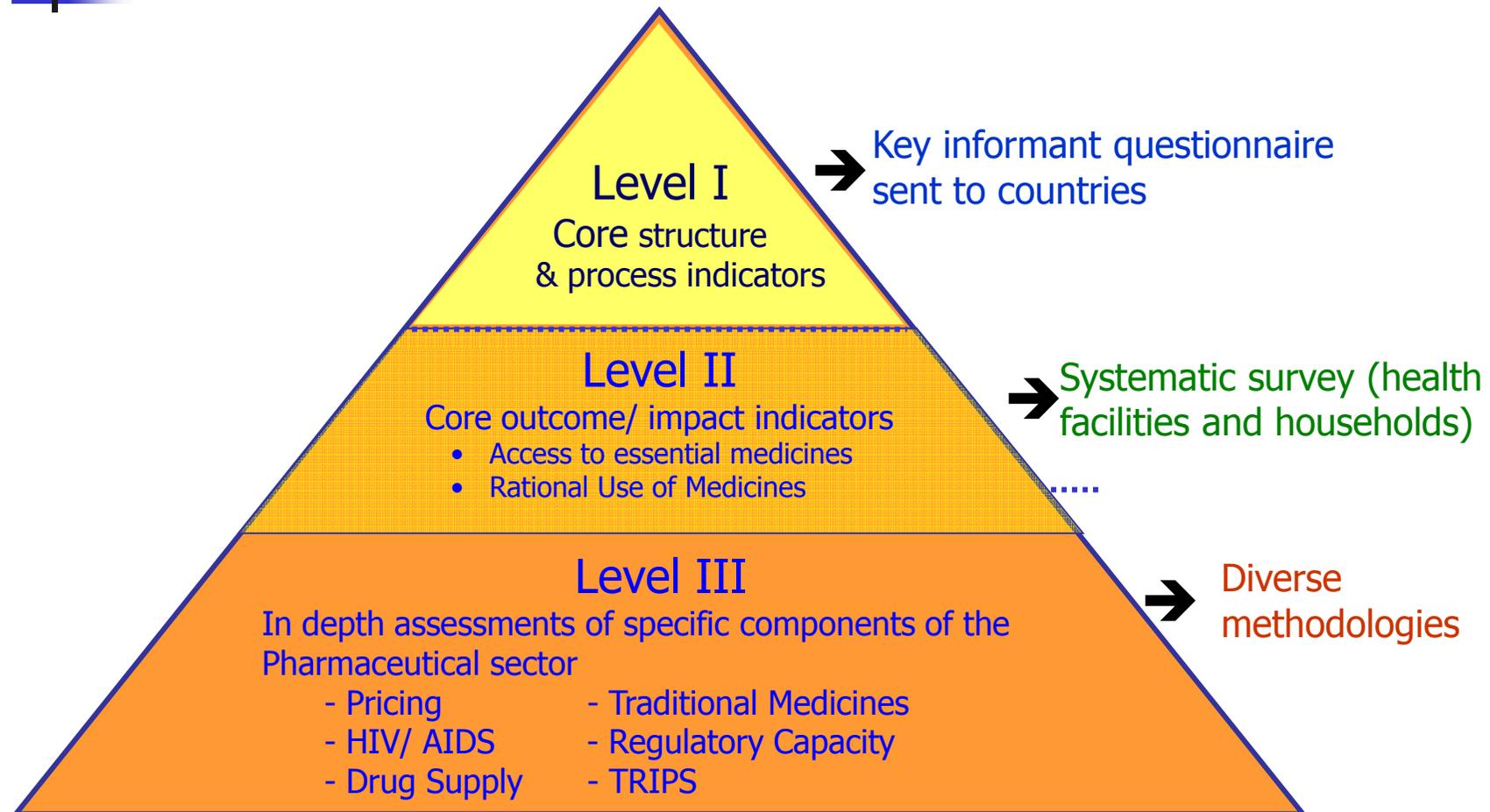


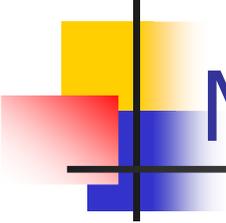
Quality of Interventions to Improve Medicines Use, by Region, 1990-2006

	Acceptable quality	Poor quality	All studies
Number of studies	82	235	317
Sub-Saharan Africa	28 34%	103 44%	131 41%
Europe and Central Asia	2 2%	6 3%	8 3%
Latin America and Caribbean	6 7%	38 16%	44 14%
Middle East and North Africa	3 4%	17 7%	20 6%
South Asia	27 33%	34 14%	61 19%
East Asia and Pacific	16 20%	37 16%	53 17%

Source: Medicine use in primary care (WHO/EMP/MAR/2009.3)

WHO Indicator-based Approaches to Monitor National Medicine Policy

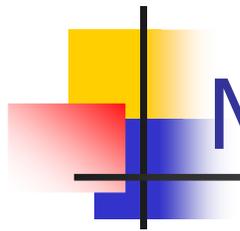




MeTA Baseline Sector Scan

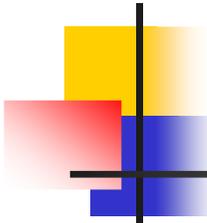
- Part of broad-based assessment of:
 - Pharmaceutical sector structure, process, outcomes
 - Disclosure status of key areas of data
 - Household access to medicines
 - Stakeholder engagement

- Integrates other sector scan approaches
 - WHO Level 1, 2
 - World Bank country profiles
 - MSH pharmaceutical system assessment



MeTA Sector Scan Components

1. Country Profile: Demographic and Socioeconomic Indicators.....
2. Country Profile: Mortality and Causes of Death.....
3. Country Profile: Health Care Expenditures
4. Country Profile: Health Personnel, Infrastructure, and Primary Health Care
5. Medicines Policy and Regulatory Framework.....
6. Medicines Market at Retail Price.....
7. Medicines Financing: Government Expenditures and Health Insurance.....
8. Medicines Financing: Public Programs Providing Free Medicines.....
9. Medicines Financing: Patient Fees and Copayments.....
10. Medicines Trade: Intellectual Property Laws.....
11. Medicines Trade: Registration
12. Medicines Trade: Manufacturing
13. Medicines Trade: Quality Assurance.....
14. Medicines Trade: Price Control and Transparency.....



MeTA Sector Scan Components

15. Medicines Trade: Price Comparison in the Private-for-Profit Sector
16. Medicines Trade: Consumer Prices of Medicines (HAI Global List)
17. Medicines Trade: Promotion and Advertising - Legal and Regulatory Provisions
18. Medicines Trade: Promotion and Advertising - Code of Conduct and Spending ..
19. Medicines Supply System: Selection.....
20. Medicines Supply System: Procurement in the Public Sector
21. Medicines Supply System: Procurement Price of Medicines (HAI Global List).....
22. Medicines Supply System: Distribution
23. Medicines Access
24. Medicines Use: National Structures
25. Medicines Use: Prescribing
26. Medicines Use: Dispensing.....
27. Medicines Use: Pharmacovigilance.....

Example of Data Collection Process for MeTA Assessment

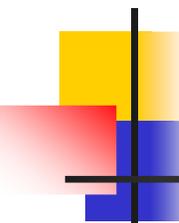
Medicines Market at Retail Price

	In this section, "medicines market" refers to public, private, and not-for-profit markets.	
6.1.	⇒ Possible sources: National legislative proceedings, MoH, Medicines Regulatory Agency, Ministry of Trade, National Bureau of Statistics, Manufacturer associations, Importer or	
6.2.	List wholesaler records, WHO Level I Survey 2003 ¹¹ and 2007, IMS country reports ¹⁴ , WHO	
	pa World Medicines Situation ¹⁵	
6.3.	Total annual market for medicines by value (local cur.) ⁶	
6.4.	Market share of generic medicines [branded and INN] by value (%)	
6.5.	Market share of medicines produced by local manufacturers by value (%)	
6.6.	List of top 2	
6.7.	Annual grow	
6.8.	Annual grow	

Document source of each item and year collected:

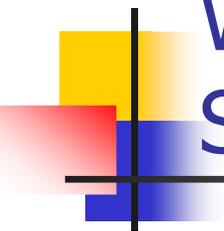
Item Number(s)	Source, Location, & Year	Comments

&: If yes, obtain li



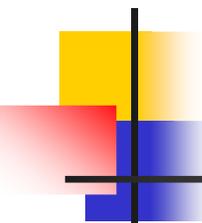
WHO Indicator-based Sector Assessment Activities Planned for 2010

- Consolidate indicator approaches
 - Glossary and definitions
 - Expert consensus on indicators
 - Prioritization of key indicators
 - Develop country profile formats
- Develop web-based interface
 - Data collection and updating
 - Reporting
- Pilot testing
 - Two countries per region
 - Final revision of indicator process



WHO(-MeTA) Community Assessment Survey Samples

- Sample: 30(-36) primary care facilities, 30(-72) retail outlets, & 900(-1080) households
- Topics in facility/outlet survey
 - Availability, quality, affordability, appropriate use
- Topics in household survey
 - Expenditures and assets (permanent income)
 - Care seeking, treatment, and reasons for non-treatment of acute and chronic illness
 - Household supply of medicines
 - Perceptions about access, affordability, and quality



Equity-oriented Indicators from WHO-MeTA Household Survey

- Illustrative indicators
 - Average HH medicine expenditures as percent of non-food expenditures
 - % of HHs with insurance coverage for medicines to treat a reported illness (acute, chronic, by illness)
 - % of respondents who agree that distance from source of medicines is a reason for not taking a medicine as prescribed for a reported illness
 - % of respondents who agree that medicines are available at point of distribution (public facility, private pharmacy, drug seller)
 - % of respondents who agree that locally made medicines are of lesser quality
- All can be examined by expenditure quintile or in defined low SES group

Need for Pharmaceutical Sector Observatory for the Americas?

The screenshot shows the homepage of the Eastern Mediterranean Regional Health System Observatory. The page features a blue header with the WHO logo and the title 'Eastern Mediterranean Regional Health System Observatory'. A navigation bar includes links for 'Help', 'Feedback', 'Useful Links', 'Disclaimer', 'Search', and 'Site Map'. A left sidebar contains a menu with categories: 'Home', 'Health System Profiles', 'Health System Database', 'Resource Center', and 'About us'. The main content area is titled 'Home' and includes a 'Regional Director's Message' with a photo of the director and a text block. Below this are links for 'Aims and Objectives' and 'Roles and Functions'. To the right are sections for 'Health System Profiles' and 'Health System Database', each with a small graphic. At the bottom, there is a 'Country Specific Information' section with a map of the region and a 'Capacity Building Workshop on Health System Development' announcement for Alexandria, Egypt, in June 2008.

Eastern Mediterranean Regional Health System Observatory

World Health Organization

Home

- Regional Director's Message
- Aims & Objectives of Observatory
- Roles and Functions
- Country Information

Health System Profiles

- Introduction
- Instruments and Tools
- Profiles by Country
- Profiles by Topic

Health System Database

- Introduction
- Quick Reference
- Query Manager
- Motion Chart
- Indicators Index

Resource Center

- Research
- Publications
- Capacity Building Workshops

About us

- Contact Us

Home

Regional Director's Message

Health systems are undergoing rapid change and the requirements for conforming to the new challenges of changing demographics, disease patterns, emerging and re-emerging diseases coupled with rising costs of health care delivery have forced a comprehensive review of health systems and their performance.

Full ([EN](#) - [AR](#) - [FR](#))

[Aims and Objectives](#)
[Roles and Functions](#)

Health System Profiles

Health System Database

Country Specific Information

Capacity Building Workshop on Health System Development
Alexandria, Egypt, 8-12 June, 2008