Pharmacovigilance in Public Health Programmes

Shanthi Pal Essential Medicines and Health Products



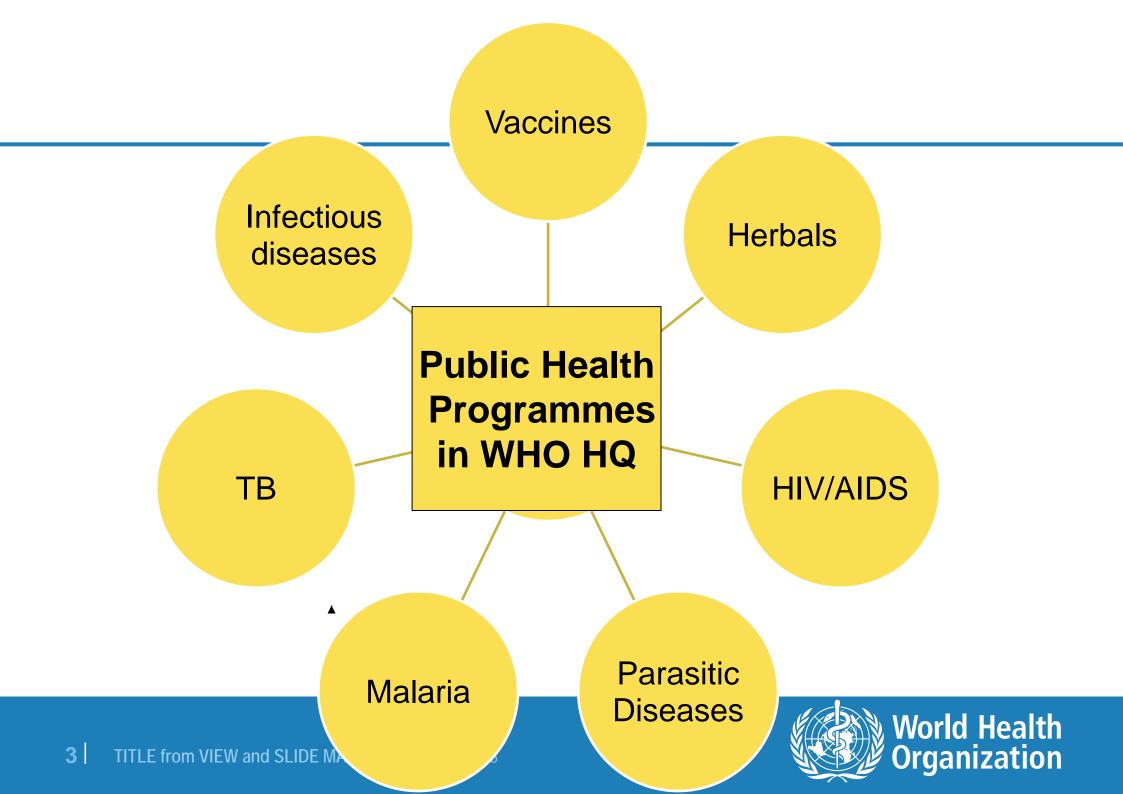
Public Health Programs (PHP)

Objective – promote, protect, and restore health

- Components education, environment, nutrition, lifestyle/behavior, prevention (immunization), pharmacotherapy
- Priority in developing countries reducing morbidity and mortality of major common diseases



World Health



 Prevent, treat and control infectious diseases: malaria, TB, HIV/AIDS

Immunization programmes

Mass distribution of free medicines

- national MOH
- donors: WHO, UNICEF, GF, USAID, etc.

World Health

PV is at the heart of public health

To:

- ✓ prevent harm and cost of medicines
- ✓ improve clinical practice
- ✓ promote rational use of drugs
- \checkmark participate in research and education



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Arguments for PV of 'old' medicines in Public Health Programmes

- It is not always the product that determines medicine safety but how it is used
- There is a high risk of misuse of drugs: presumptive treatment
- Urgent need to educate staff in public health programmes on the need for PV



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Medicines in priority diseases: HIV, TB, Malaria

We are accelerating the use of new drugs in new environments, which are mostly devoid of pharmacovigilance activities

- Faster scale up of public health programs due to availability of new funding from major donors such as the Global Fund, World Bank, PEPFAR, PMI, etc
- New drugs are reaching developing countries in greater numbers and more quickly because of new funding from several donors, including the Bill and Melinda Gates Foundation



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Importance of pharmacovigilance

Cannot extrapolate data from developed countries:

- Type of drug use is different
 - Do not use the co-formulated ARVs
 - Minimally use anti-TB, anti-malarial and anti-diarrhoeal drugs
- Patient genotype, phenotype, social and economic conditions are markedly distinct
 - Large number of malnourished patients
 - Patients with concomitant diseases
 - High rates of illiteracy and poverty, increases likelihood of inappropriate use by pregnant women, breast feeding mothers, young children, elderly
 - Large number of patients using herbal and other traditional medicines



Background

Global Drug Facility (GDF):

- procurement agency;
- in 2009 delivered over 2.4 million patient treatments
- In 2011 brought upwards of 60,000 additional MDR-TB patients to treatment

Large-scale interventions

Lymphatic filariasis Onchocerciasis Schistosomiasis Soil-transmitted Helminthiasis Trachoma Albendazole Azithromycin Diethylcarbamazine Ivermectin Mebendazole Praziquantel in 2008

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Impact of ADRs on PHP

- Significant cause of morbidity and mortality
- Affect treatment adherence
- Increase risk of drug resistance
- Public confidence in PHP
- Wasted financial resources

In most settings PV and PHPs operate in isolation, as

independent vertical programmes





World Health Organization

Urgent need for synergistic collaboration

PHP

- ✓ Financially well-supported
- Offer a cohort of patients under controlled conditions
- ✓ But usually no PV capacity
- ✓ Conflict of interest

PV centres

- ✓ detect , evaluate, and prevent adverse events
- ✓ Good expertise, capacity
- ✓ Independence
- ✓ But little funds





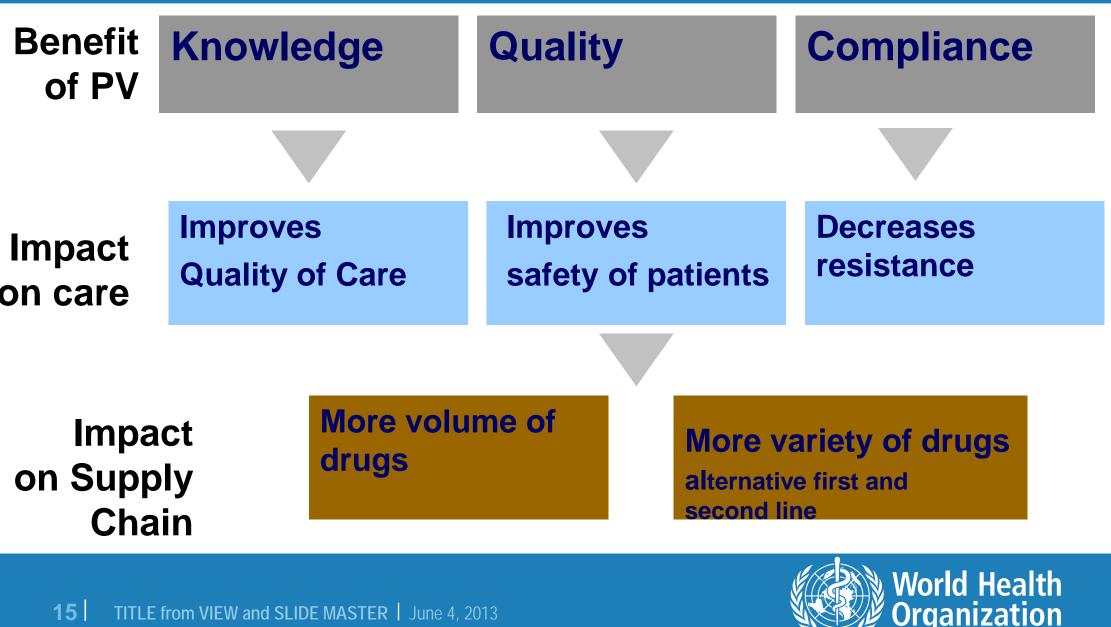
- Initiating, organizing, carrying, advising and guiding safety monitoring
- PHPs funding the PV activities
- Best practices in PHP; National PV offices strengthened through service provided



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Benefit of Pharmacovigilance—beyond Safety



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