

Regulatory Enforcement and the Risk of Counterfeit and Substandard Medicines in Africa

The case of Tanzania

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Outline

- Tanzania Food and Drugs Authority
- Counterfeit and substandard medicines in Africa
 - The case of Tanzania
- Challenges in combating counterfeit medicines
- Challenges in the supervision of overseas vs local manufacturers
- Examples of cases of counterfeit medicines cases in Tanzania
- Combating counterfeit medicines
- Conclusions & Way Forward



Tanzania

- Located in Eastern Africa, sharing borders with 8 countries
 - Burundi, Rwanda, Uganda, Kenya, Malawi,
 Mozambique, Zambia, Democratic Republic of Congo
 - & the Indian Ocean with a coastline of 1,424km
- The largest nation in East Africa, both in land area and population (44, 929,002 million - 2012 census)
- Many tourist attractions
 - National parks
 - Mount Kilimanjaro (highest peak in Africa)



Tanzania (2)





Medicines Regulation in Tanzania

- Tanzania Food, Drugs and Cosmetics Act, No.1, 2003
 - Provides for regulation of food, medicines, cosmetics and medical devices
 - Prohibits sale of unregistered products
 - Lays down conditions for registration of regulated products
 - Provides punishment for violations
 - Empowers the Ministers to make regulations & the Director General to make guidelines
- Established the Tanzania Food and Drugs Authority (TFDA)



Tanzania Food and Drugs Authority

► Tanzania Food and Drugs Authority (TFDA) is an Executive Agency under the MoHSW established in 2003.

- ► Headquarters in Dar es Salaam & 5 zone offices across the country.
- ►TFDA is a regulatory body mandated to regulate safety, quality and effectiveness of food, medicines (including veterinary, vaccines and herbal medicines), cosmetics and medical devices.



Tanzania Food and Drugs Authority (TFDA)

- TFDA Mission "to protect and promote public health by ensuring safety, quality and effectiveness of food, medicines, cosmetics and medical devices".
- **TFDA Vision** "to be the leading African Regulatory" Authority in ensuring safety, quality and effectiveness of food, medicines, cosmetics and medical devices for all".
- Key milestones achieved (2003 2012)
 - Key regulatory systems, processes and procedures in place
 - Quality Management System certified to <u>ISO</u> 9001:2008 since June 2009.
 - Medicines testing laboratory <u>WHO Prequalified since</u> **January**, 2011.
 - Food and Microbiology laboratories accredited to ISO/IEC 17025:2005 since September, 2012.



TFDA HQ in Dar es Salaam





Counterfeit and Substandard Medicines

- Medicines save lives and prevent diseases and epidemics <u>only when</u> they are efficacious, safe, of good quality and rationally used
- However, counterfeit and substandard medicines circulate alongside approved quality medicines.
- Counterfeiting of medicines
 - is a serious global public health problem
 - affects both developed and developing countries
 - counterfeit medicines resemble a silent murderer when they are used to treat life threatening conditions e.g. malaria
 - is a national problem with "international dimensions"

 FDA

 www.tfda.or.tz

Impact of counterfeit medicines

On Public Health

- Counterfeit medicines have potential to kill
- They are dangerous to patients as;
 - they may not respond as quickly to treatment
 - counterfeit antibiotics can increase resistance
 - counterfeit vaccines do not immunize
 - direct harm if they contain impurity or poisonous substances



On Health Systems

- Erosion of public confidence
 - Healthcare professions
 - National Medicines Regulatory Authorities
- Public money is used to buy medicines of unknown safety and quality

On Economy

- Legitimate sale and tax revenue lost
- Reduction on economic growth (reduce financial returns on investment in innovation)



Challenges in combating counterfeit medicines

- Inadequate legal framework and weak penal sanctions
- Un-harmonized regulatory systems with bordering countries
 - Many porous borders between countries
- Limited number of drug inspectors vs. the size of the country and number of ports of entry.
- Inadequate access to essential medicines including insufficient coverage of health insurance schemes
- Wide price gaps or extremely high prices since many countries do not regulate medicines prices



Challenges on supervision of overseas vs. local manufacturers

- Costs involved in conducting and follow GMP inspections.
- Limited number of qualified GMP inspectors to conduct regular inspections of overseas manufacturers.
- Policies in producing countries that promote exports vs. compliance to regulatory requirements e.g. GMP
- Lack of harmonized GMP requirements and inspection procedures among NMRAs in importing and exporting countries.
- Contract (third-party manufacturing) that is difficult to monitor
- Capacity to inspect all batches imported at port of entries



Examples of counterfeit medicines cases in Tanzania

 Tanzania has experienced a number of cases of counterfeit medicines

Documented cases from 1999 onwards

- Actions have been taken to address the public health challenge.
- Five examples outlined in the next slides

Counterfeit Chloroquine in 2001

Expired Chloroquine Injection (from an unregistered manufacturer) was relabeled as Quinine Dihydrochloride Injection 600mg/2ml purported to be from a manufacturer in Cyprus.

Culprit prosecuted but case abetted due to death of culprit







Counterfeit Metakelfin tablets in March 2009

- Counterfeit anti-malarial, Metakelfin tablets were found on the market.
 - Lab analysis confirmed lack of <u>Pyrimethamine 25mg</u>, one of the active ingredients while <u>Sulphamethoxypyrazine</u> was available at 0.4% (acceptance limits 90-110%)
 - Several batches were confiscated from the private pharmacies
- Suspended importation, distribution and use of Metakelfin in Tanzania.
- Recalled all batches of Metakelfin from the market and disposed off all stock
- 5 prosecutions court cases ongoing.
- Manufacturer changed packaging and re-introduced the product.





NAFDAC NO: 04-3861

Manufactured by Pharmacia Italia S.p.A. Ascoli Piceno under authority of Pfizer INC.N/Y.

Pharmacia & Upjohn Made in Italy 2 Counterfeit

Pfizer

NAFDAC NO: 04-3861

Manufactured by Pharmacia Italia S.p.A. Ascoli Piceno under authority of Pfizer INC. N/Y.

Pharmacia & Upjohn Made in Italy

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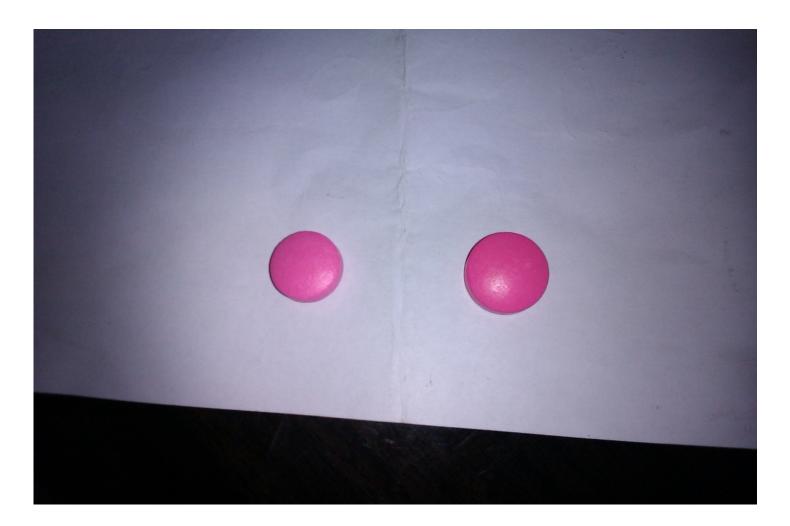
Counterfeit Laifin (with Sulphamethoxazole) was being sold/dispensed as Laefin (with Sulfametopyrazine) in September, 2011





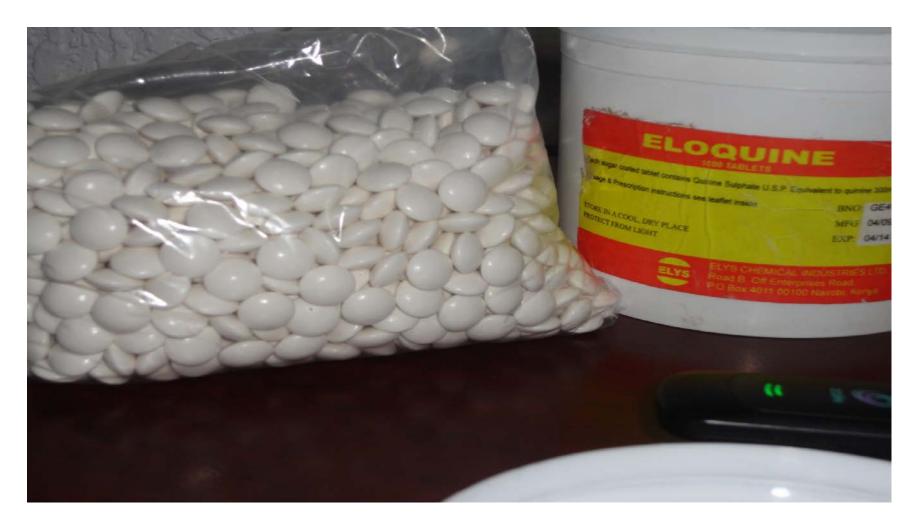


<u>Ibuprofen tablets</u> was found being sold/dispensed as <u>Erythromycin tablets</u> in August, 2011





<u>Metronidazole tablets</u> were found being sold as <u>Antimalarial</u> <u>Quinine Sulphate tablets</u> in February, 2012





Substandard Medicines: Operation Mamba 2008





Combating counterfeit medicines

- Combating counterfeit medicines requires collaboration at national, regional and international level
 - Political will and commitment
 - Legal framework that clearly defines counterfeit medicines and recognizes it as a crime that is different and more serious than counterfeiting other kinds of goods e.g. t-shirts, cassettes
 - Strong medicines regulatory framework backed by legislation

Combating counterfeit medicines (2)

- Collaboration at regional and international level
 - Bordering countries
 - New Member State Mechanism established by WHA in 2012
- Role of pharmaceutical manufacturers and their associations in identifying counterfeited products
- Pharmaceutical distributors, wholesalers, importers, exporters – apply principles of good distribution practices



Efforts in Tanzania

- Implementation of Medicines Quality Assurance program with primary screening at ports of entry (PoEs) and at identified centres using Minilab Kits
- Establishment of the Drug Quality Control Laboratory
 - WHO Prequalified in January, 2011
- Implementation of structured Post-Marketing Surveillance Programme
 - Surveillance of a basket of medicines annually
- Implementation of Accredited Drugs Dispending Outlets (ADDOs)
 - Conversion of poorly regulated small drug outlets into ADDOs



Efforts in Tanzania --- (2)

- Establishment of joint TFDA Police and Customs taskforce on counterfeit medicines
 - Tasked to carry out regular joint operations to identify and confiscate counterfeit medicines.
- Combating counterfeit and substandard medicines is one of TFDA's priority areas in its 5-year Strategic Plan (20012/13 - 20116/17).
- Public education programs on public health implications of counterfeit and substandard medicines on TVs, radio, exhibitions.
- Launch of the EAC medicines regulatory harmonization project, in March 2012
 - Harmonized medicines regulatory systems, processes and procedures.



Conclusions and way forward

- Counterfeit medicines is a real and serious public health problem
 - affects both developed and developing countries
 - collaboration and co-operation among NMRAs and law enforcement agencies at national, regional and international levels is the only way to win this war
 - Especially in Africa where regulatory systems are still weak or non-existent in some countries coupled with limited skilled human resources
- New Member State Mechanism established by WHA in 2012
- Improved co-operation among law enforcement agencies at national and regional levels (NMRA, Police, Customs)



Thank you

