

Substandard and Falsified (SF) Medical Products



World Health Organization

6th Cycle Regional Training Seminar for OIE Focal Points for Veterinary Products (Africa)
Addis Ababa, Ethiopia, 10 July 2019 (Remote Presentation)





SUBSTANDARD

Also called 'out of specification', these are authorized medical products that fail to meet either their quality standards or their specifications, or both. e.g. Manufacturing error, expired or degraded



FALSIFIED

Medical products that deliberately/fraudulently misrepresent their identity, composition or source.



UNREGISTERED / UNLICENSED

Medical products that have not undergone evaluation and/or approval by the NRRRA for the market in which they are marketed/distributed or used, subject to conditions under national or regional regulation and legislation.

Source: <https://www.who.int/medicines/regulation/ssffc/definitions/en/>

African Customs Seizure

Customs agents conducting a routine search of a cargo shipping container found this inside...



Coartem – Anti malarial
1.383,528 packs



Postinor 2 – Emergency Contraceptive
4930 packs



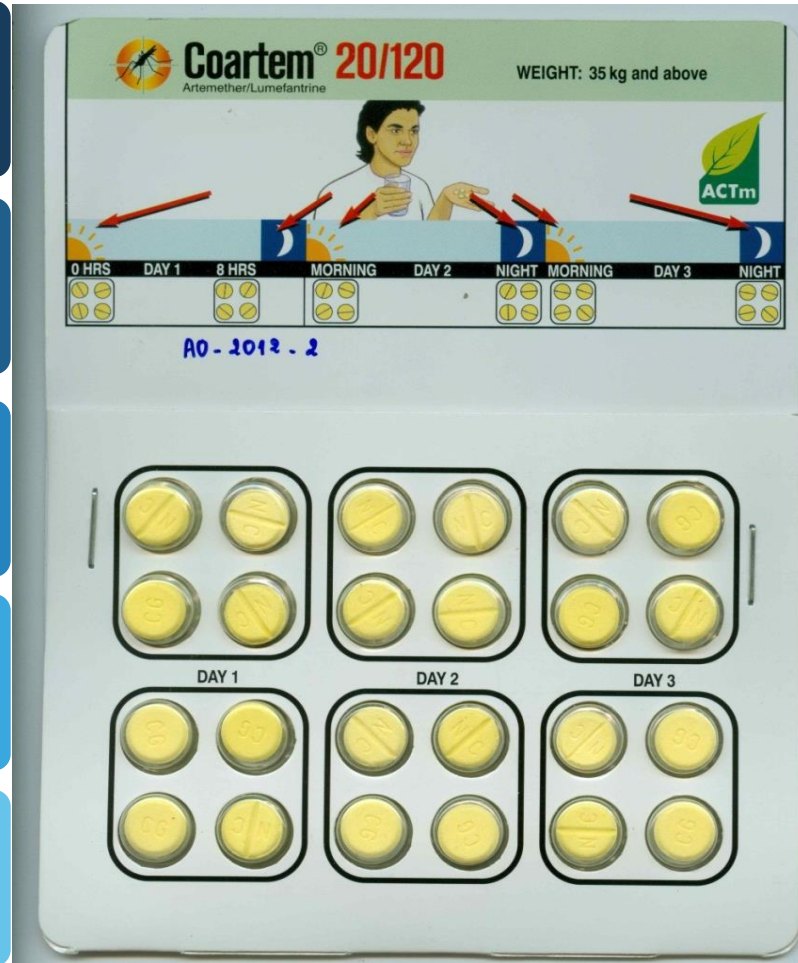
Vermox – Worming treatment
1534 packs



Clomid – Fertility treatment
36,550 packs



Clamoxyl - Antibiotic
744 packs



European Customs Seizure

Customs agents intercepted these shipments of separated packaging components at the airport...



1 million empty capsules



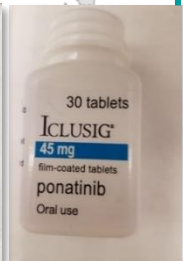
Disguised as Ceylon Stevia Sweetener



1 Manual Capsule-Filling Machine +
1 Carton-Folding Machine

PGN 300
Pflizer

WHO Global Alerts 2019



- 31 Jan: rabies vaccines
- 31 Jan, 21 Feb: leukemia treatment traded globally
- 21 Mar: oral cholera vaccines
- 28 Mar: meningitis vaccines
- 16 Apr: contaminated antihypertensive
- 24 Apr: leishmaniasis treatment

Risk Communication

- Therapeutic use
- Where and when discovered
- Product specific
- Batch Specific
- Manf and exp dates
- Clarify if falsified or substandard

World Health Organization
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Ref: EMP/SA/Alert N° 4/2019 24 May 2019

Medical Product Alert N° 4/2019
Falsified oral cholera vaccines circulating in Bangladesh

This Medical Product Alert relates to the circulation of confirmed falsified DUKORAL in the WHO region of South East Asia. Genuine **Dukoral** is a WHO pre-qualified oral cholera vaccine.

WHO was recently informed by the manufacturer **Valnevo**, that 8000 falsified packs of the oral cholera vaccine **Dukoral** were distributed in Bangladesh. WHO country office and health authorities in Bangladesh have quantitated the falsified vaccines identified to date.

Product Name	Dukoral (Oral cholera vaccine) / Dukoral (oral contre le cholera)
Batch Number	KVK262B1
Expiry Date	2020-04
Stated manufacturer	Valnevo Canada Inc. <i>Note that the logo of the manufacturer Covid is also displayed</i>

The packaging of this falsified **Dukoral** displays text in English and French language.

Samples are being sent for laboratory analysis to determine their contents and better assess the risk to public health. This medical product alert n°4/2019 will subsequently be updated and posted on the WHO website once laboratory results are known. No serious adverse reactions attributed to these falsified vaccines have been reported to WHO at this stage.

The manufacturer of genuine **Dukoral** is **Valnevo** Sweden AB, formerly named **Covid** Sweden AB.


The above product claims to be manufactured by **Valnevo Canada Inc.** However, the manufacturer **Valnevo** Sweden AB has stated that:

- the displayed batch number does not correspond to genuine manufacturing records of either **Valnevo Canada Inc.** or **Covid**; and
- the combination of the manufacturers **Valnevo Canada Inc.** and **Covid** should not exist on any packaging in any market.

The next page shows photographs of the falsified **Dukoral** subject of this alert and provides advice for healthcare professionals and patients.

Ref: EMP/SA/Alert N°4/2019
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PHOTOGRAPHS OF FALSIFIED DUKORAL, BATCH NUMBER KVK262B1



WHO requests increased vigilance within the supply chains of countries likely to be affected by these falsified vaccines. Increased vigilance should include hospitals, clinics, health centres, wholesalers, distributors, pharmacies and any other suppliers of vaccines or medical products.

If you are in possession of the above falsified vaccines, please do not use. If you have taken this falsified vaccine, or if you suffer an adverse event or an unexpected lack of efficacy, please seek immediate advice from a qualified healthcare professional, and ensure they report the incident to your local Ministry of Health, National Medicines Regulatory Authorities or National Pharmacovigilance Centre.

All medical products must be obtained from authentic and reliable sources. Their authenticity and condition should be carefully checked. Seek advice from a healthcare professional in case of doubt.

National health authorities are asked to immediately notify WHO if these falsified vaccines are discovered in their country. If you have any information concerning the manufacture, distribution, or supply of these products, please contact qa@who.int.

**WHO Global Surveillance and Monitoring System
for Substandard and Falsified Medical Products**

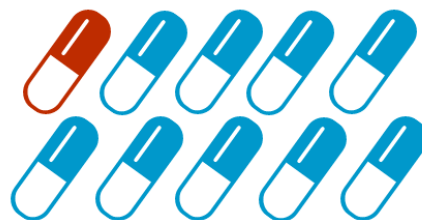
- Clear photos
- secondary packaging
- WHO guide on taking good photos
- Advice to patients and health care workers

← Accurate Information, Advice and Reassurance →

WHO Estimates 2017*

**Limited to medical products for human use*

10.5%



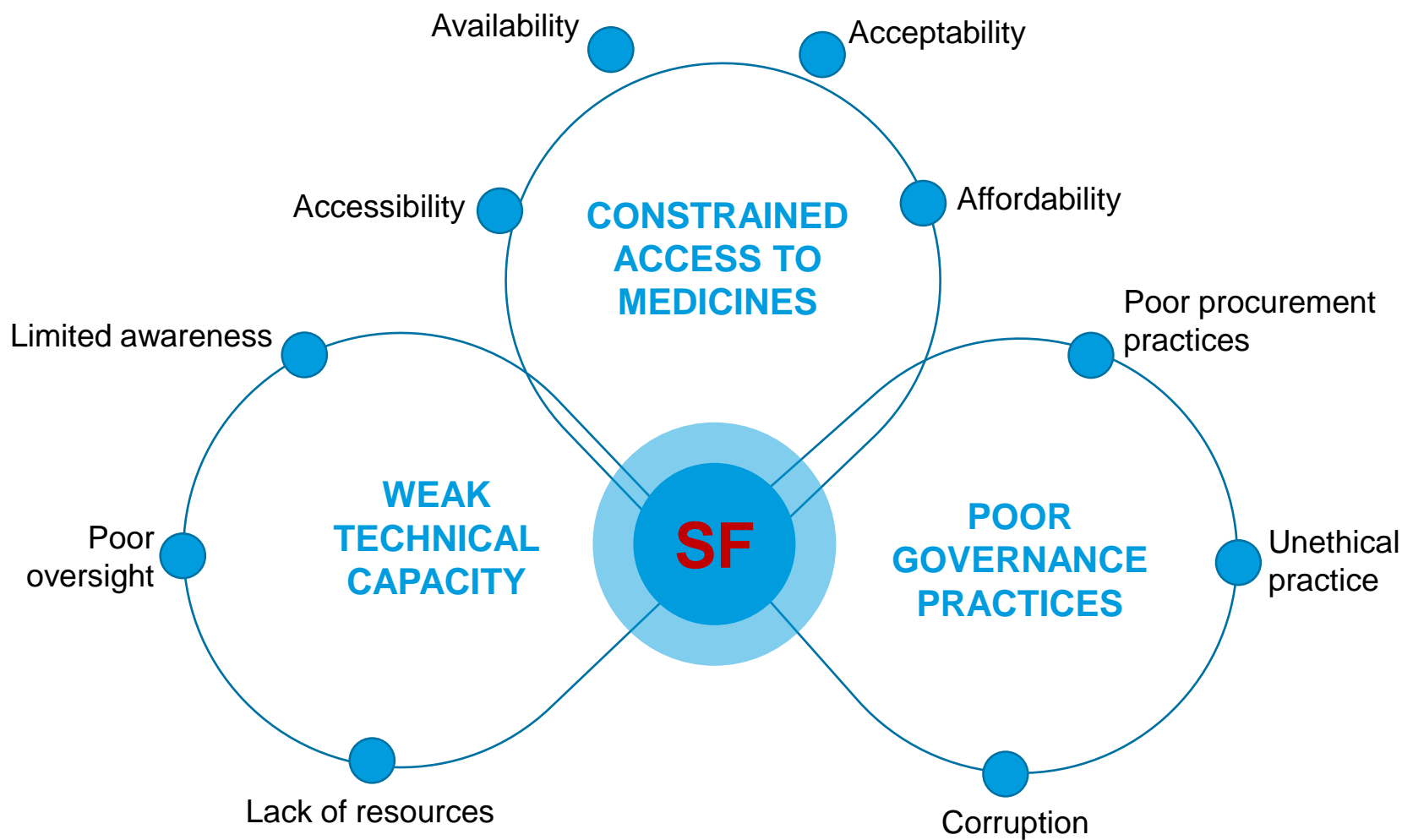
Observed failure rate of analysed medical product samples from low and middle-income countries

US\$ 30.5 Billion

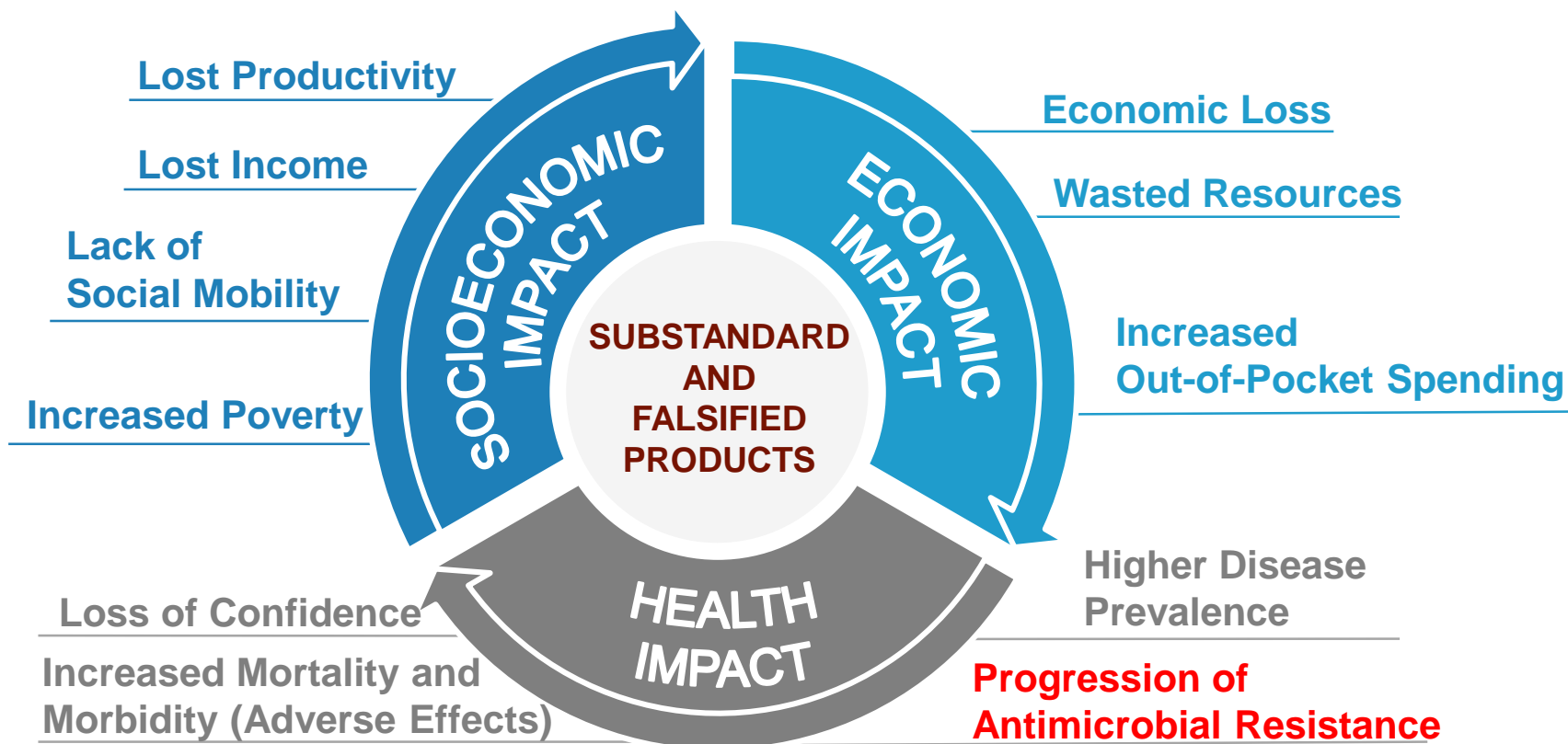


Estimated spending on SF medical products in low and middle-income countries based on un-weighted estimates of pharmaceutical sales

Causes



Consequences



POLITICAL RESPONSE

Member State Mechanism

- Political support
- Promote access to affordable, safe, efficacious, and quality medical products
- Effective Member States' collaboration and coordination

OPERATIONAL RESPONSE

Global Surveillance and Monitoring System

- Immediate technical and operational support
- Regulatory capacity building and policy guidance
- Improve current knowledge for in depth analyses. landscape, etc.

PROTECT

PUBLIC

HEALTH

WHO Member State Mechanism

MANDATE



**World Health Assembly
65.19 ; 2012**

*Recognised as an
unacceptable threat to public
health*

PURPOSE



**International collaboration
from a public health
perspective on substandard
and falsified medical
products**

GOVERNANCE



- **Steering Committee**
- **1 Chair (India)**
- **11 Vice Chairs**
- **Regional Rotation**

2018-19 Prioritized Activities



As agreed by the Member State Mechanism

Develop and promote training material and guidance documents for the prevention, detection and response to SF medical products

Expand and maintain the global focal point network among national medicines regulatory authorities

Improve understanding of detection technologies, methodologies, and “track and trace” models

Increase knowledge of links between SF medical products and access to quality, safe, efficacious and affordable medical products

Develop and leverage risk communication and awareness campaigns

Expand awareness, effectiveness, impact and outreach

Promote understanding from a public health perspective regarding medical products in transit

Identify strategies for the distribution or supply of SF medical products via the Internet

WHO GLOBAL SURVEILLANCE and MONITORING SYSTEM



Available in **English, French and Spanish**

150 Member States trained



700+ Regulatory Personnel trained



18 Large Procurement Agencies sensitized



3 Languages for reporting and response



28 Training Workshops in all regions



111+ Countries reported incidents



2000+ Reports of suspect products



28 Global Drug Alerts (+ warnings and regional bulletins)




WHO Technical Assistance in **100+** cases

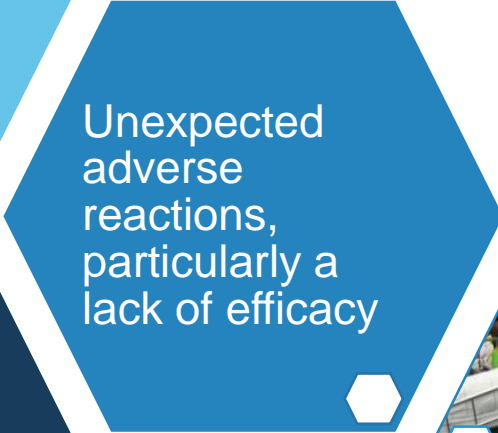



Landmark report in 2017

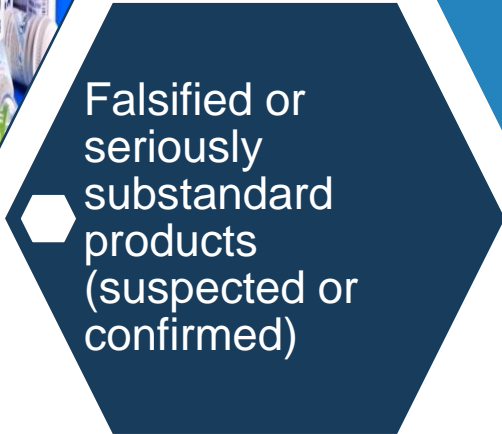

What to Report




Medical products
stolen from
public aid or
humanitarian
programmes



Unexpected
adverse
reactions,
particularly a
lack of efficacy



Falsified or
seriously
substandard
products
(suspected or
confirmed)



When to Report

The product and batch may have already been reported by another Country



The risk to public health may have already been assessed



Report suspicion early and search the WHO Portal



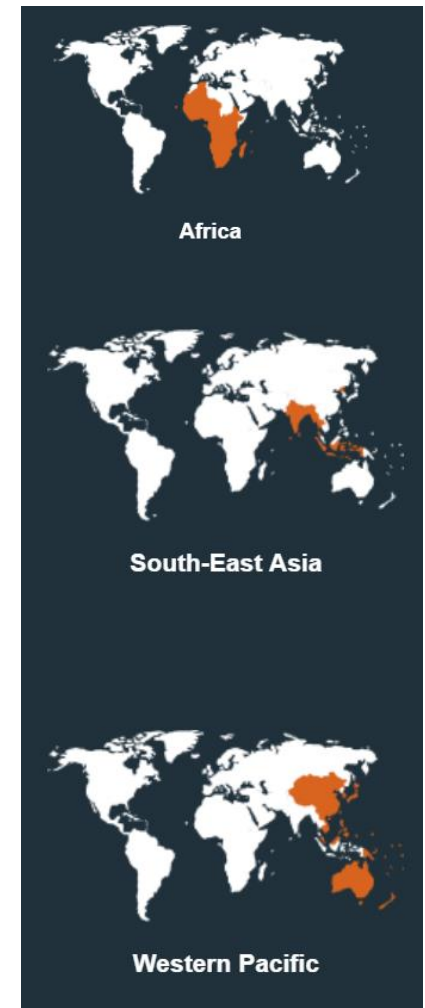
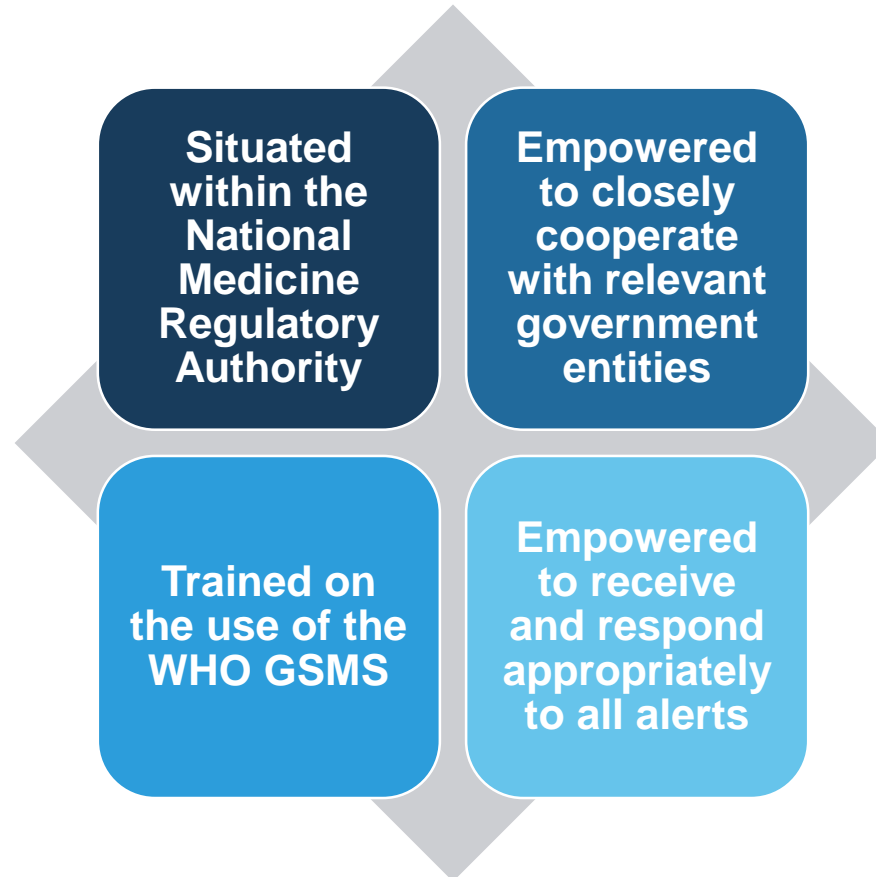
The suspicious product may have already undergone laboratory analysis which can be shared



Another country may be investigating the origin of the product and have helpful information

Who Reports

Terms of Reference for Global Focal Point Network



Coordination and Collaboration



WHO Global Surveillance and Monitoring System for substandard and falsified medical products

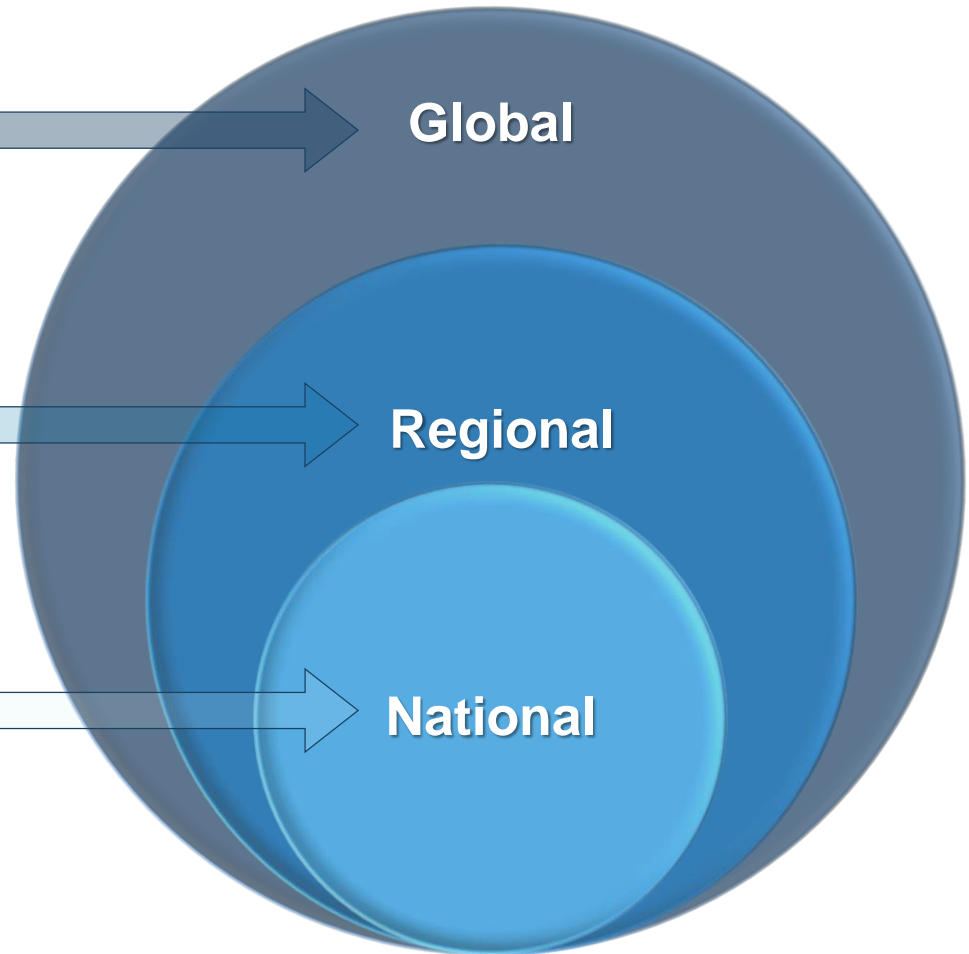
Global

Regional Rapid Alert Network

Regional

National risk based post market surveillance and reporting systems

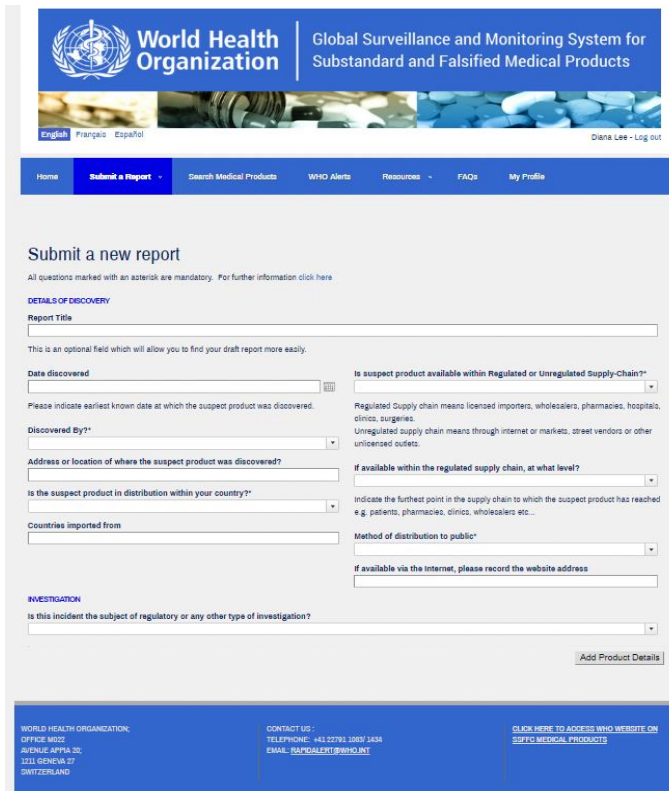
National



How to Report

Online Portal

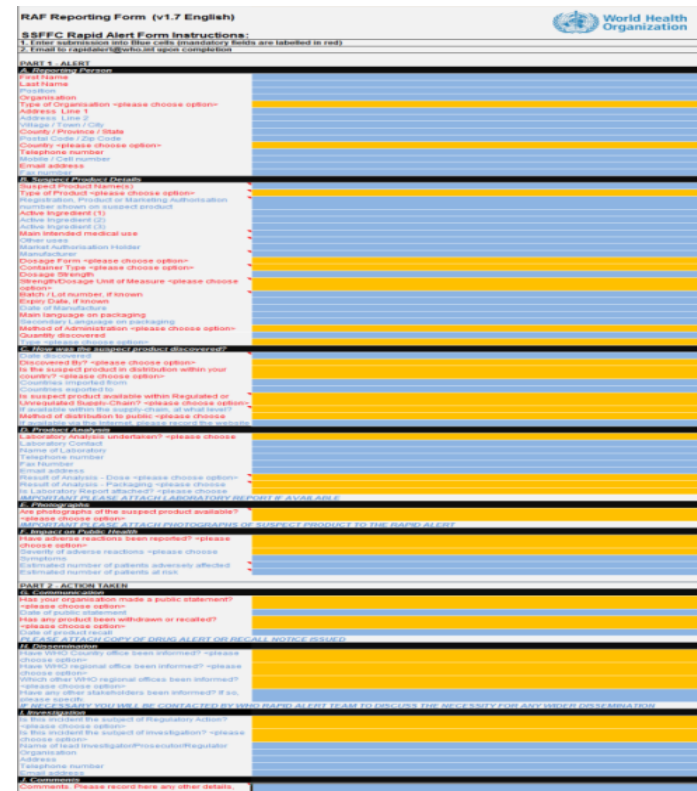
- 1 Via secure online portal, which is also used to search the database and access training material



The screenshot shows the WHO online reporting portal. At the top, there is a header with the WHO logo and the text "Global Surveillance and Monitoring System for Substandard and Falsified Medical Products". Below the header, there is a navigation menu with options like "Home", "Submit a Report", "Search Medical Products", "WHO Alerts", "Resources", "FAQs", and "My Profile". The main content area is titled "Submit a new report" and contains a form with various fields for reporting a suspected product. The form is divided into sections: "DETAILS OF DISCOVERY", "INVESTIGATION", and "CONTACT US". The "DETAILS OF DISCOVERY" section includes fields for "Report Title", "Date discovered", "Is suspect product available within Regulated or Unregulated Supply-Chain?", "Address or location of where the suspect product was discovered?", "Is the suspect product in distribution within your country?", "Countries imported from", and "Method of distribution to public". The "INVESTIGATION" section includes a field for "Is this incident the subject of regulatory or any other type of investigation?". The "CONTACT US" section provides contact information for the WHO office in Geneva, Switzerland.

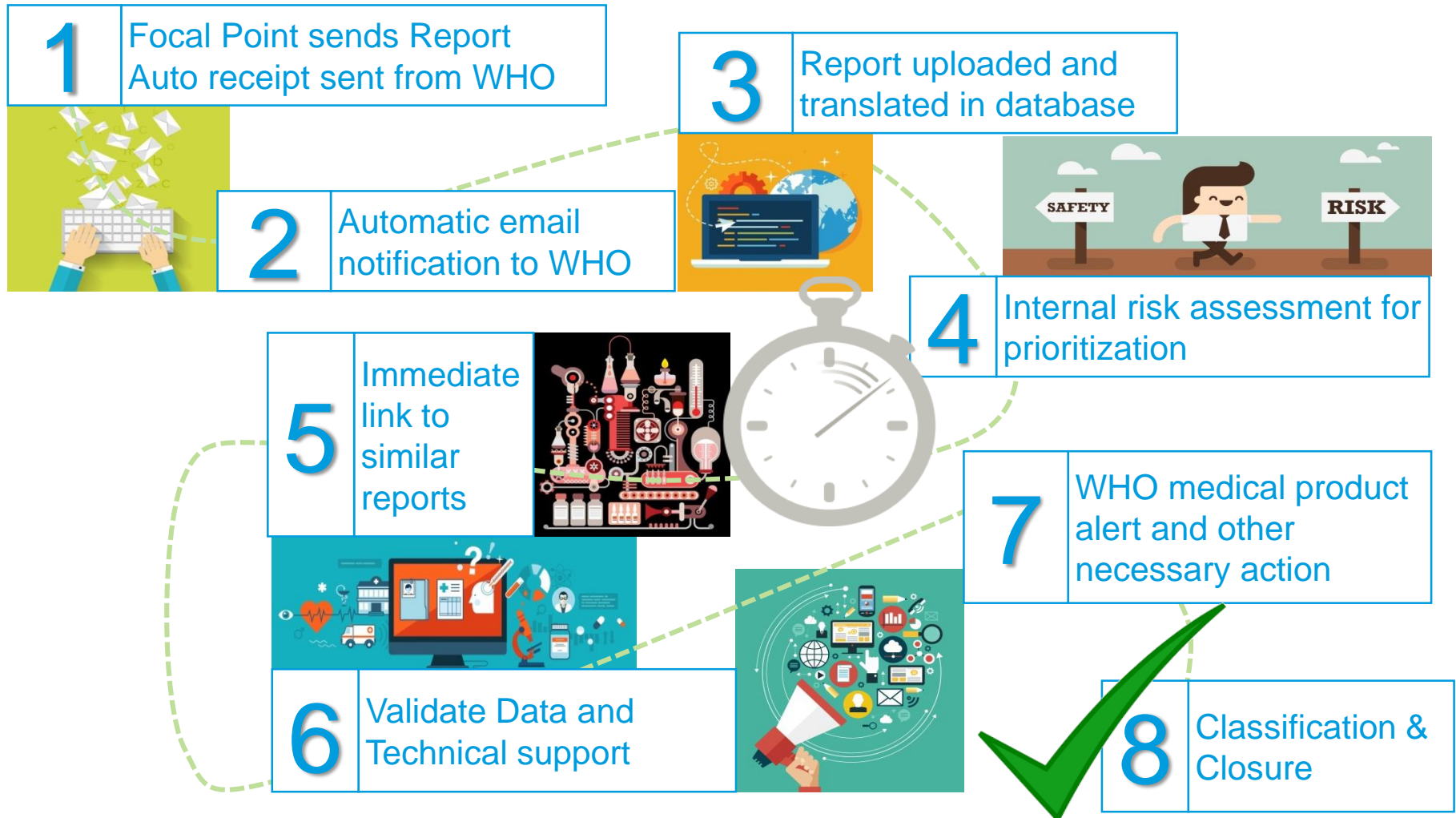
Excel Form

- 2 Offline reporting form in Excel and email to WHO

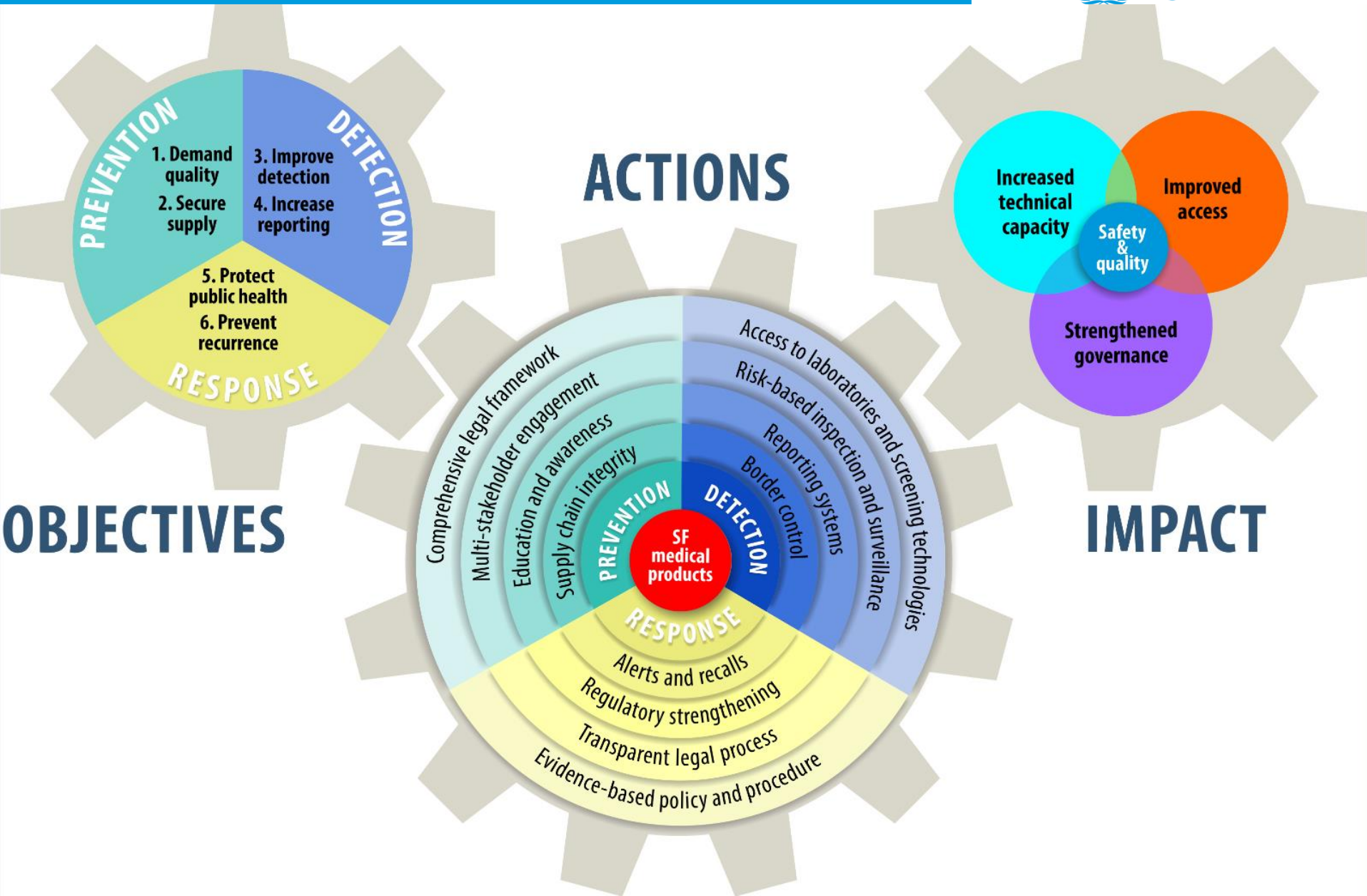


The screenshot shows the WHO Excel reporting form, titled "RAF Reporting Form (v1.7 English)". The form is a detailed spreadsheet with multiple columns and rows, designed for offline reporting. It includes sections for "SFFC Rapid Alert Form Instructions", "PART 1 - REPORTER INFORMATION", "PART 2 - SUSPECT PRODUCT INFORMATION", "PART 3 - INVESTIGATION INFORMATION", and "PART 4 - CONTACT INFORMATION". The form contains numerous fields for providing detailed information about the suspected product, including its name, manufacturer, active ingredients, and distribution details. It also includes sections for reporting the discovery of the product, the investigation process, and the reporter's contact information. The form is designed to be filled out and then emailed to WHO for processing.

WHO GLOBAL SURVEILLANCE and MONITORING SYSTEM



Prevent, Detect, Respond Strategy



One Health: Veterinary Meds



Year Overview of SF Veterinary Product Reports Received

2017	<ol style="list-style-type: none"> 1. Substandard Canigen LR rabies vaccines in France 2. Falsified Trisulfon powder in Ukraine 3. Falsified Neostomosan concentrate in Hungary 4. Substandard Tylosin 20 H in Germany 5. Substandard Cefshot DC in the UK 6. Substandard Rabies Vaccines in Thailand 7. Substandard Deparvax/Deparmune in Hungary, Poland and France 8. Substandard Avinew Neo vaccines in France 9. Substandard Colistina Solfato in Czech Republic 10. Substandard Amoxinject in Germany 11. Falsified Biocan R rabies vaccines in Poland 12. Substandard Aivlosin in the UK 13. Unregistered Nifuramycin Powder in Germany 14. Substandard Narcostop in Hungary
2018	<ol style="list-style-type: none"> 1. Substandard Oxytoxin in Germany, EU countries, Serbia, Egypt, UAE, Cuba and Sri Lanka 2. Contaminated Overvac EC in Spain 3. Substandard Lactaclox Intrammary Infusion in the UK 4. Substandard Willcain in the UK 5. Substandard Bovigam Lactacion in Spain 6. Suspension of Diethanolamine in the Netherlands 7. Substandard Vectormune ND vaccines in Hungary 8. Substandard Norocarp in Spain 9. Substandard Oxyvet 100 LP in Barbados and Jamaica
2019	<ol style="list-style-type: none"> 1. Falsified Micotil in the UK 2. Stolen Eravac, Eryseng Parvo PET, Suiseng PET, and Vepured Pet in Denmark 3. Substandard Meloxidolor in Spain 4. Substandard Anaestamine in Czech Republic, France and UK 5. Substandard Media Fill Simulation for Suite 11 Aseptic Manufacturing System 1 in UK, Croatia and France 6. Substandard Norocarp, Enrotril, Noromectin, Alamycin, and Paramectin Injectable in Spain 7. Substandard Pyceze 8. Substandard Carprosan in Spain



Lessons Learned



From global
policy to local
impact

POLITICAL WILL is required to translate policy agreed at the global level to **SUSTAINABLE ACTIONS** on the ground with **APPROPRIATE FINANCIAL AND HUMAN RESOURCES**



Sound
investment
strategies

STRENGTHENING REGULATORY CAPACITY AND SYSTEMS is a key step and **SOUND INVESTMENT** to safeguard the manufacture, distribution and supply of medical products



Cooperation
and
coordination

Improved **REPORTING SYSTEMS** and greater **TRANSPARENCY** within and between countries is required, together with wide and **EFFECTIVE MULTI STAKEHOLDER ENGAGEMENT**



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