

Post-market surveillance for IVDs

Anita Sands

**WORKSHOP WITH NEGLECTED TROPICAL
DISEASES (NTD) DIAGNOSTICS
MANUFACTURERS**



World Health
Organization



Post-market surveillance by manufacturers

- Post-market surveillance is the process conducted by the manufacturer to collect and analyze experiences with a product on the market.
- Manufacturers should have a PMS plan to:
 - consider all **user feedback** (complaints, technical support callouts, maintenance, etc.)
 - review **scientific literature** and other information sources
 - review **production** records,
 - conduct **post-market performance follow-up**.



Incident reporting by manufacturers

- **Collects** user feedback
- **Classifies** feedback and determines **reportability to regulator**
 - Uses IMDRF N43 terminology
- **Undertakes** root cause analysis
- **Decides** if correction
 - repair, modification, adjustment, relabeling, destruction or inspection of a product without its physical removal to some other location
- **Implements** corrective/preventive actions
 - to eliminate the cause of detected nonconformity or undesirable situation or identify opportunities for improvement before a problem is identified

What to report	Time to report to NRA
Serious public health threat	Immediately but no later than 48 hours
Death, serious deterioration in state of health <u>occurred</u>	ASAP but no later than 10 calendar days
Death, serious deterioration in state of health <u>might have occurred</u>	ASAP but no later than 30 calendar days

Example: human African trypanosomiasis (HAT) RDT

- Suspect substandard HAT RDT
 - False positive results
 - Patients retested with another brand of RDT and found negative
- Action by authorities:
 - Facility manager notifies the manufacturer
 - Microscopy or presumptive treatment used instead
 - Specific lot number was quarantined nationwide



Manufacturer investigation report

Annex 2: Manufacturer investigation reporting form

- Incidents that represent a serious public health threat should be reported to the relevant NRAs **immediately and not later than 48 hours**.
- Other incidents, including death or serious deterioration in health, which *occurred* for the patient, end-user or other individual should be reported to the relevant NRAs within **10 calendar days**.
- Other incidents, including death or serious deterioration in health, which *might have occurred* for the patient, end user or other individual should be reported to the relevant NRAs **within 30 calendar days**.

Send to: relevant national regulatory authorities and, if applicable, to the World Health Organization (e-mail: rapidalert@who.int).

1 Report details

Name of recipient organization (name of NRA/WHO):	
Street name and no.:	City and postcode:
Country:	Telephone:
Name and position of recipient contact person:	E-mail of contact person:
Identifier assigned by the manufacturer:	Identifier assigned by NRA:
Type of report: <input type="checkbox"/> Initial report	State any other NRAs who were also sent this report:

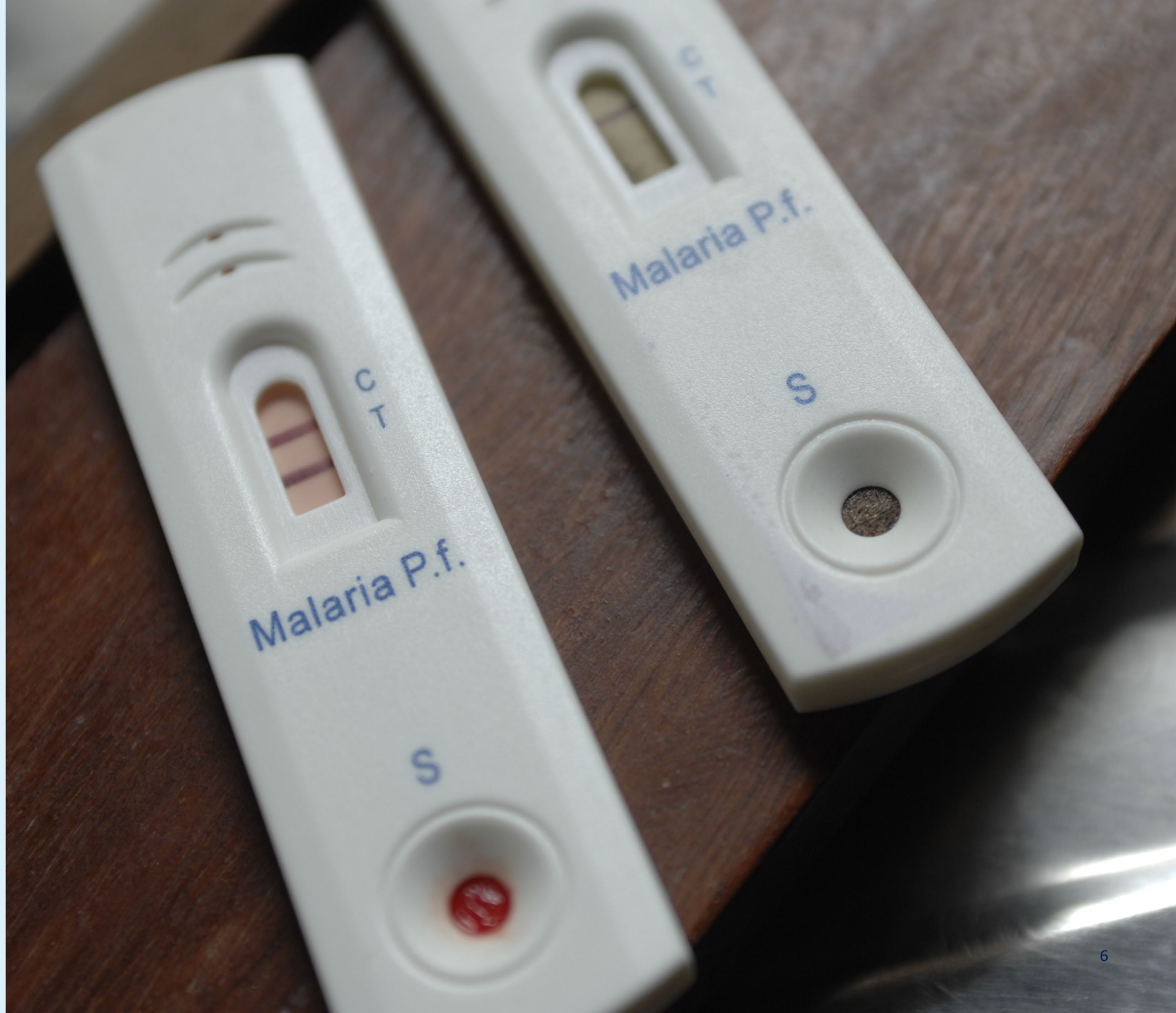
Templates can be found for

- User feedback form
- Manufacturer investigation form
- Field safety corrective action report

[Guidance for post-market surveillance and market surveillance of medical devices, including in vitro diagnostics](#)

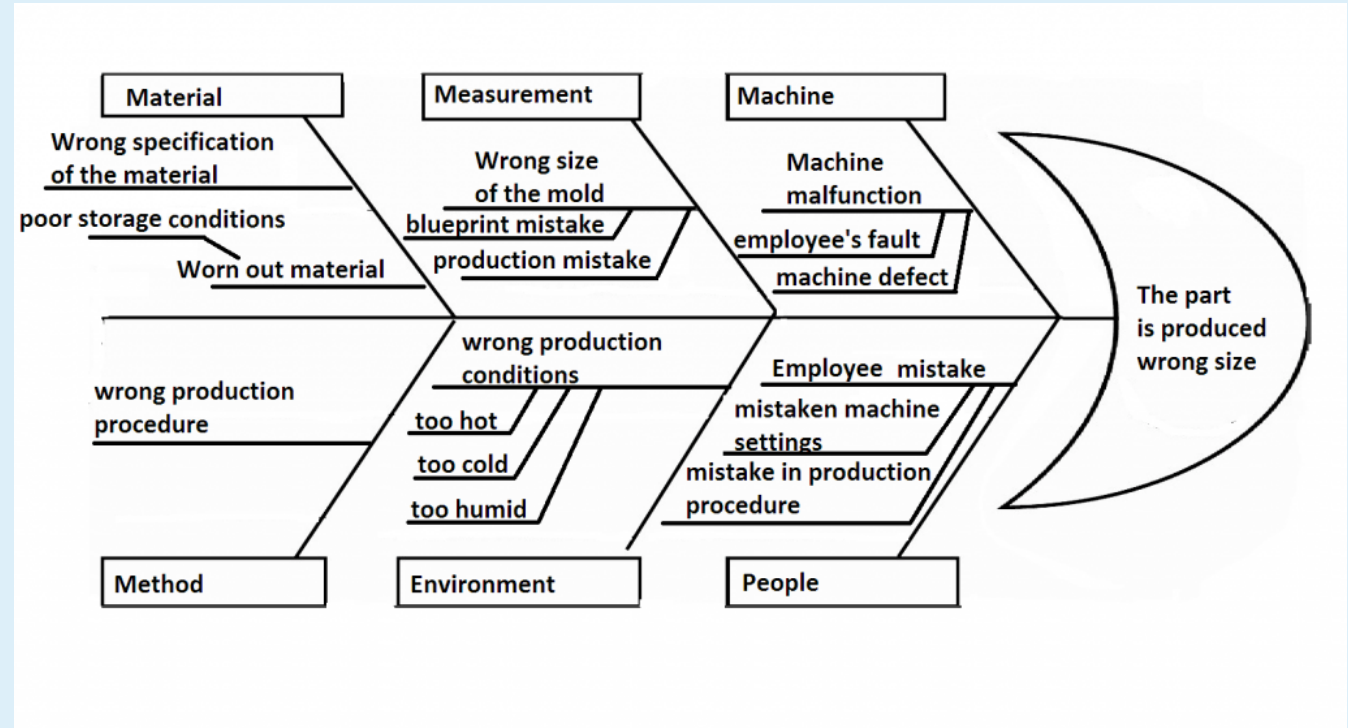
Manufacturer investigation report

- Manufacturer conducts investigation
 - Sends investigation report to NRA (and to WHO if PQ or EUL)
- Root cause analysis
 - Test retained samples of affected lot – **compiled with specifications yes/no**
 - Review complaint record for affected lot – **other complaints yes/no**
 - Review all complaints for the product – **other complaints yes/no**
 - Review batch manufacturing records for affected lot – **any deviations or nonconformances**



Root cause analysis

- Manufacturer investigation report should contain:
 - Root cause cause analysis (how/why did this happen)
 - Analysis regarding related areas (is this same issue occurring elsewhere)
 - Scale and scope of issue
- Manufacturer should use documented procedures and tools
 - Fishbone diagram, etc



Investigation report

Testing retained samples of affected lots

- What specimens were used?
 - Final QC lot release panel, or
 - Specific investigation panel,
 - Capillary or venous whole blood
- What was the acceptance criteria?
 - Same final QC lot release
 - Or against IFU claims
- Any physical inspection of components
 - Specimen transfer devices
 - Buffer vials



Closing out an incident

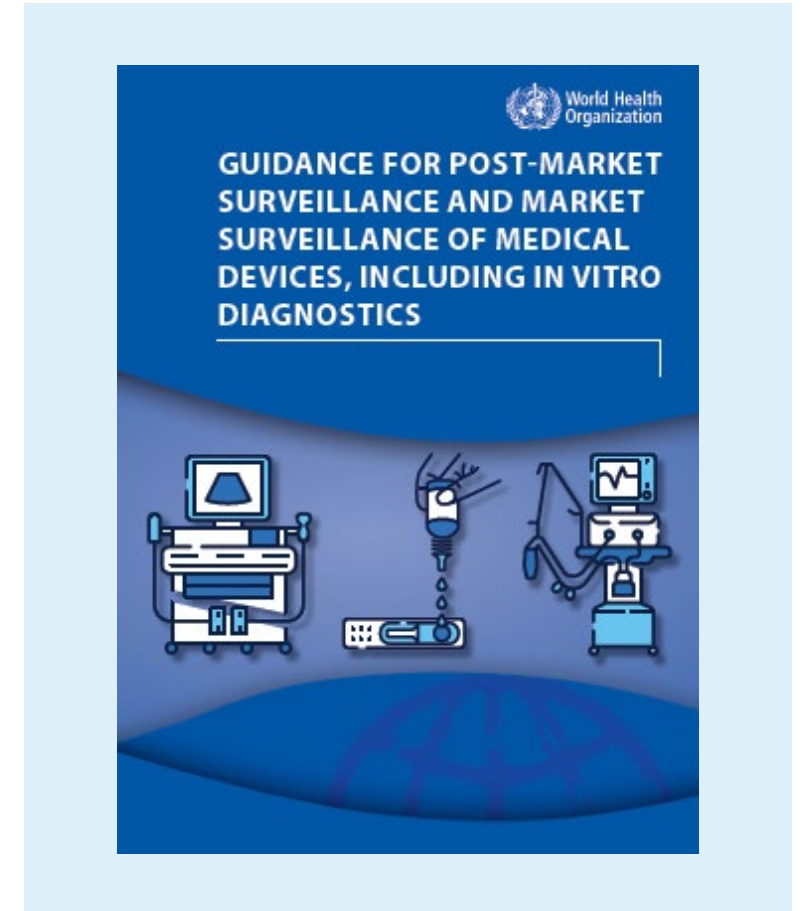
- Observations can't be replicated by the manufacturer
 - Manufacturing defect could be ruled out
 - Then what is probable root cause?
- Role of reliance
 - If another regulator reviewed the same investigation report
 - Sharing field safety notices
- Risk assessment (severity vs occurrence)
 - Not all sites affected , restricted to one lot?
 - Best case scenario
 - Over treatment – give empirical treatment, give treatment to false positives
 - Worst case scenarios
 - Under treatment – if no testing then no treatment (risk of death)
 - Testing services for malaria were interrupted

- IMDRF N43 terminology
 - [Annex A](#) - Medical Device Problem
 - [Annex G](#) - Medical Device Component
 - [Annex E](#) - Health Effects - Clinical Signs and Symptoms or Conditions
 - [Annex F](#) - Health Effects - Health Impact

WHO normative guidance

- Covers all medical devices, including IVDs, without prejudice to national legislation
- Describes
 - **Post-market surveillance** activities for manufacturers
 - **Feedback** procedure for users (rather than just complaints and adverse events)
 - **Market surveillance** activities for regulators
- Reflects international standards/guidance
 - [ISO/TR 20416:2020](#) Medical devices — Post-market surveillance for manufacturers
 - [IMDRF/AE WG/N43](#) Terminologies for Categorized Adverse Event Reporting (AER): terms, terminology and codes

https://www.who.int/health-topics/substandard-and-falsified-medical-products#tab=tab_1



Thank you

For more information, please contact:

Anita Sands

Technical Officer, Regulation and Prequalification

sandsa@who.int



**World Health
Organization**