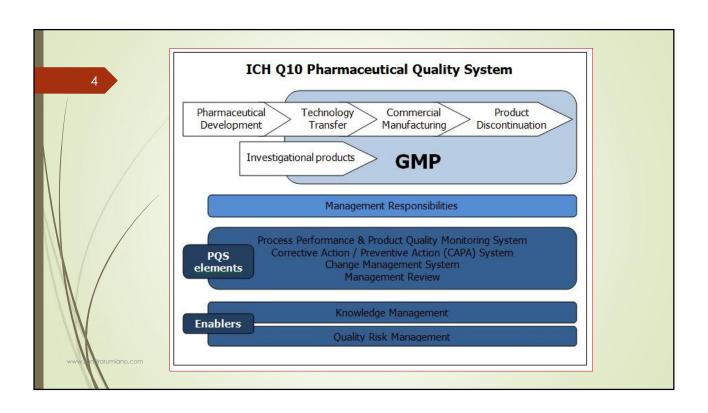
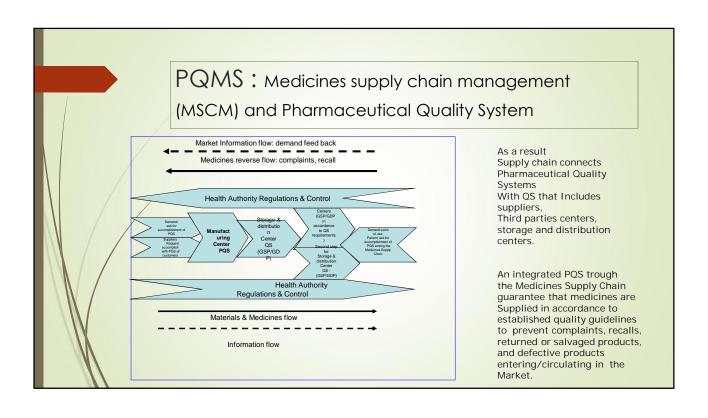
# Deviation Management DCVMN regional Workshop Sao Paulo, November 24-28<sup>th</sup> Dr. Sandra Olga Rumiano

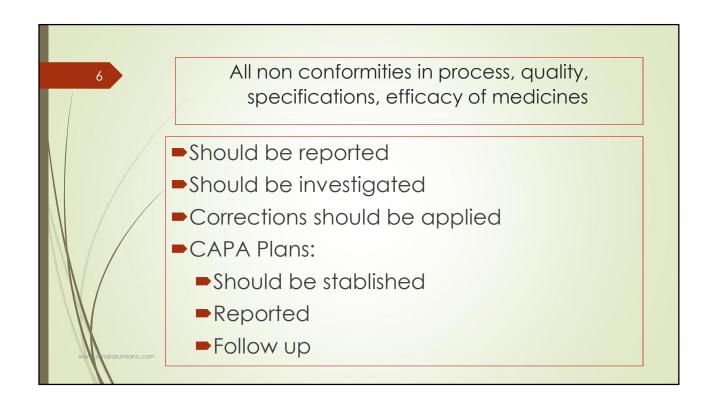
Agenda

- Worldwide Regulatory Requirements
- Deviations / Incidents / Observations / OOS (out of specifications) / OOT (out of trends) / OOE (out of expectations) / complaints what can go wrong in vaccines supply chain and how to manage it?
- Root Cause Analyses tools.
- Corrective Actions vs CAPA Plan.
- Root Cause Analyses : practical exercises:
- Questions open session.
- ► Attendants Evaluation.









Deviations / Incidents / Observations / OOS

(out of specifications) / OOT (out of trends) /

OOE (out of expectations) / complaints — what

can go wrong in vaccines supply chain and

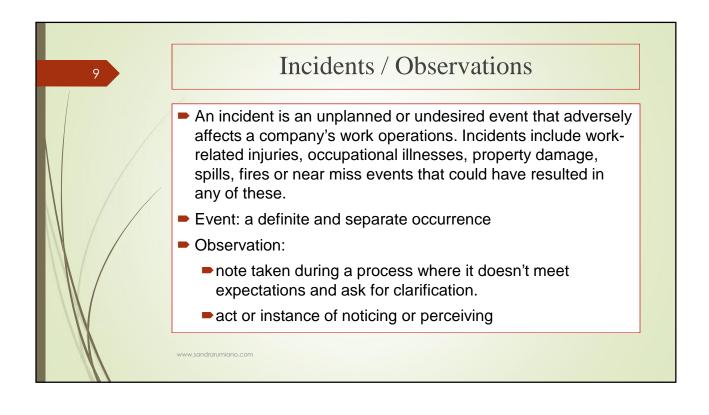
how to manage it?

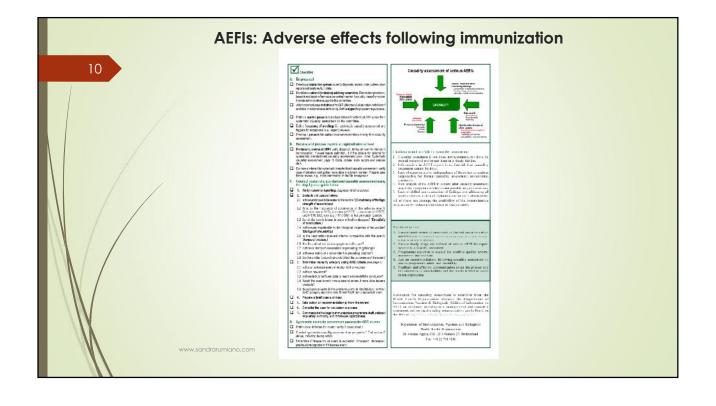
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Deviations

Deviation: Failure to comply with all rules and procedures processes under a Pharmaceutical Quality Management System.

Pre - Scheduled Deviation: the modification of the processes and requirements of Quality Management System prior to its execution.





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## OOS (out of specifications) / OOT (out of trends) / OOE (out of expectations)

- Out-of-Specification (OOS) Results :A result that falls outside established acceptance criteria which have been established in official compendia and/or by company documentation.
- Out-of-Expectation (OOE) Results: An atypical, aberrant or anomalous result within a series of results obtained over a short period of time is an OOE result. An OOE result is a result that meets specifications, but is outside the expected variability of the analytical procedure.
- Out of Trend (OOT) Results: A time dependent result which falls outside a prediction interval or fails a statistical process control criterion.
  - A trend is a sequence of temporal procedures, e.g. for the manufacture of different batches of a product. There are two types of trends:
    - In one case, no trend is expected, e.g. in production or when analyzing process data where everyone expects that they are under statistical control.
    - In the other case, a trend is expected. One typical example for that is stability testing where one
      expects that the content of the API reduces over the storage period, or that the quantity of impurities
      increases over time

12

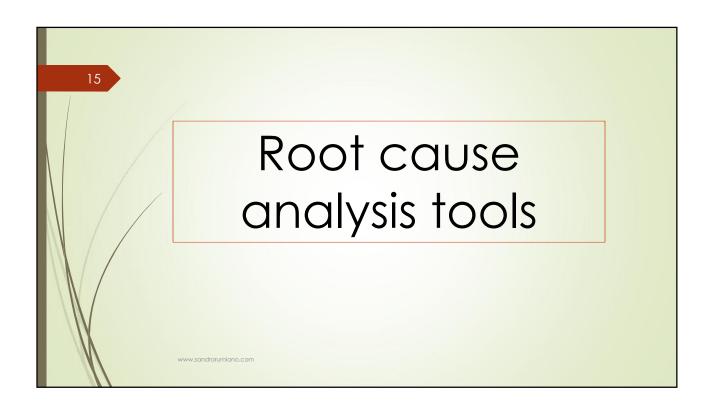
## Complaints

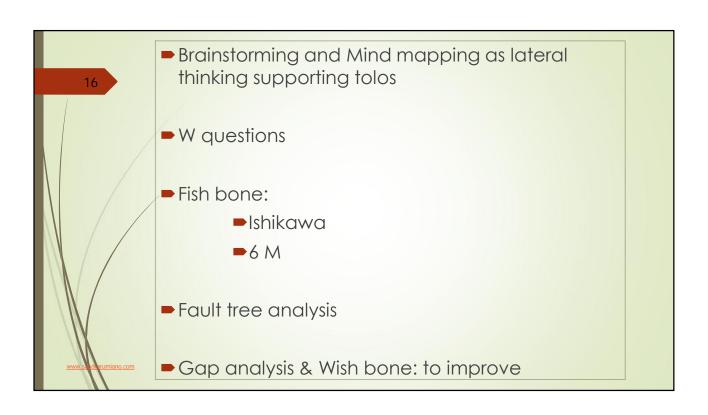
Complaint means any written, electronic, or oral communication that alleges deficiencies related to the identity, quality, durability, reliability, safety, effectiveness of a medicine or a medical device after it is released for distribution.

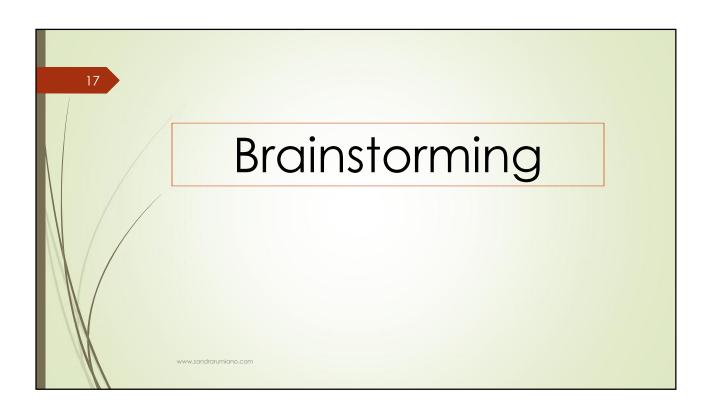
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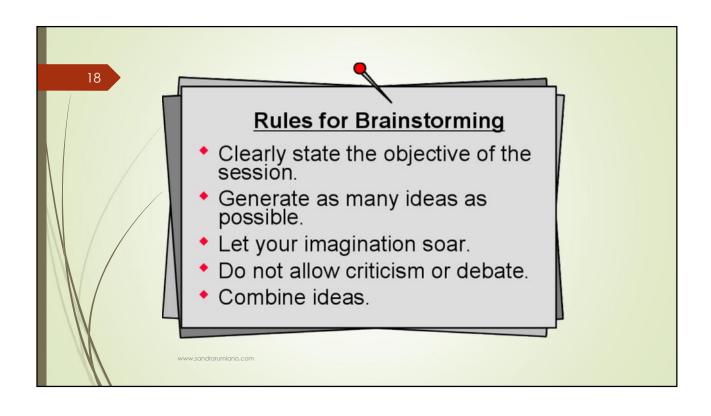
Quality risk management is a systematic process for the assessment, control, communication and review of risks to the quality of the drug (medicinal) product across the product lifecycle.

# Companies should have an investigation process to ensure that: All unplanned and or communicated non conformities as general concept are investigated Root cause is identified Actions are taken: Contingent or correction action: action or measure taken to eliminate or correct a detected nonconformity. Corrective action means action to eliminate the cause of a detected nonconformity or other undesirable situation. Preventive action: Action taken to eliminate the cause of a potential nonconformity or other undesirable situation. Corrections and CAPA Plan has a established follow up cycle

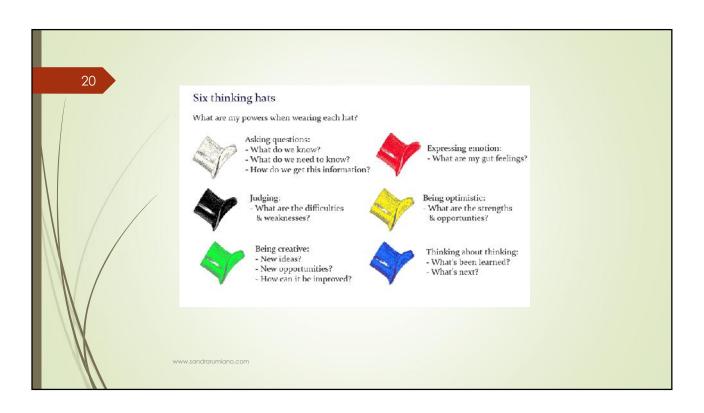


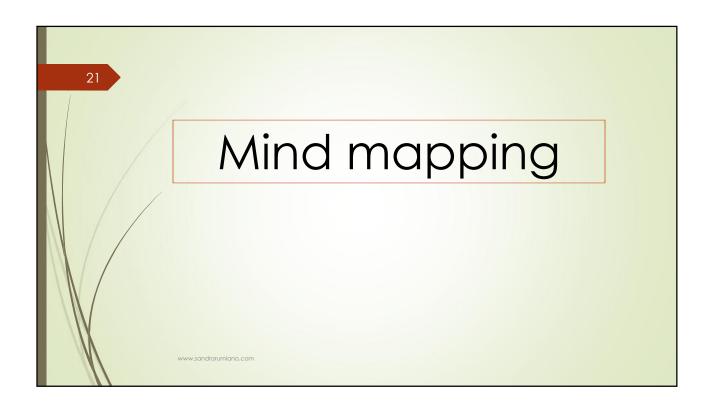


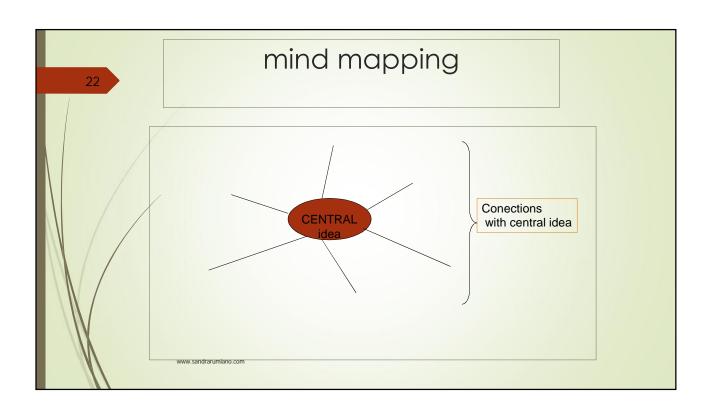


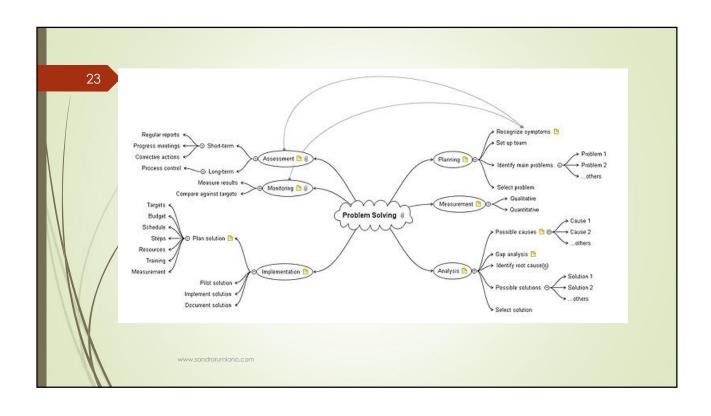


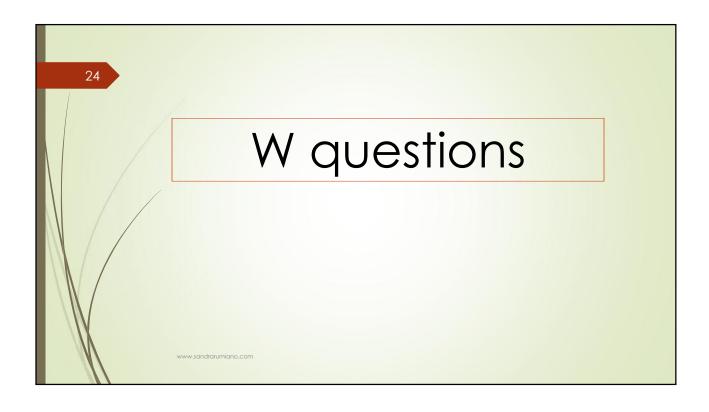


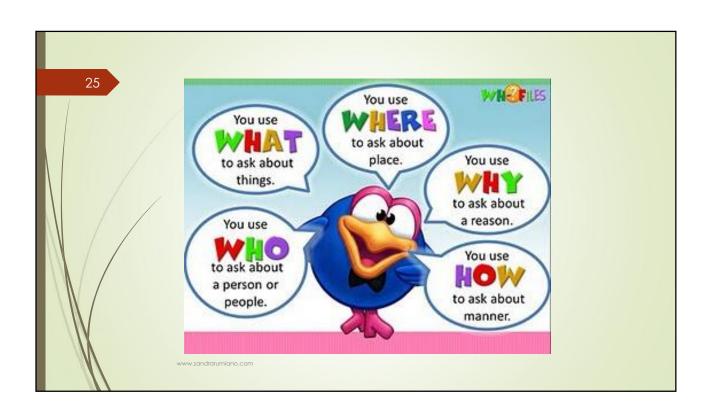


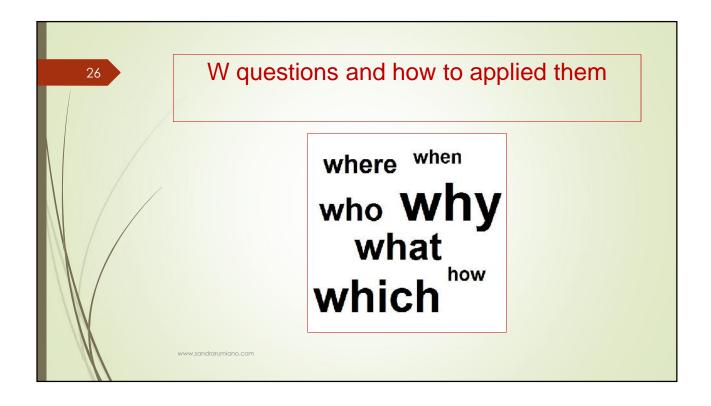


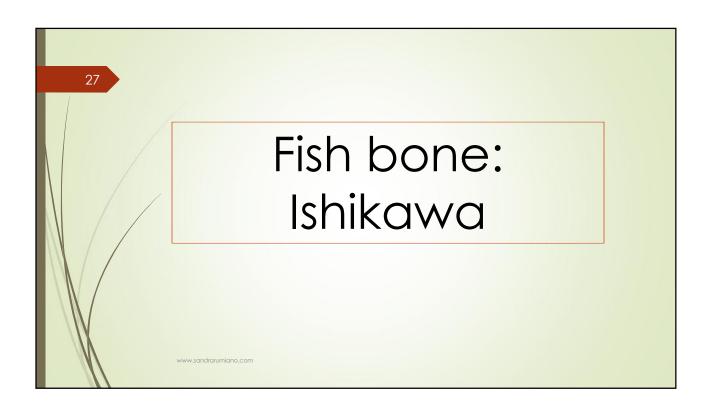




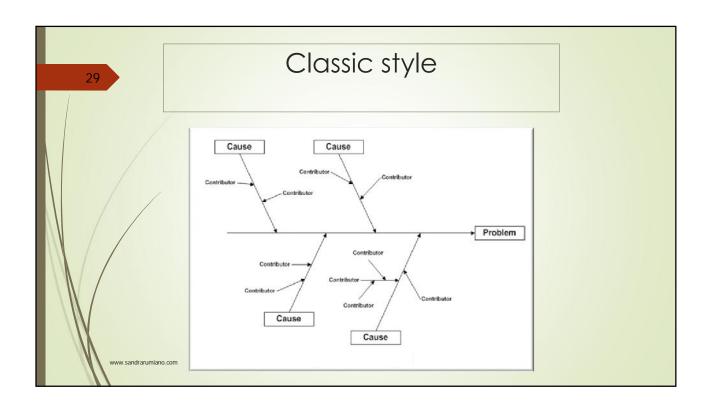


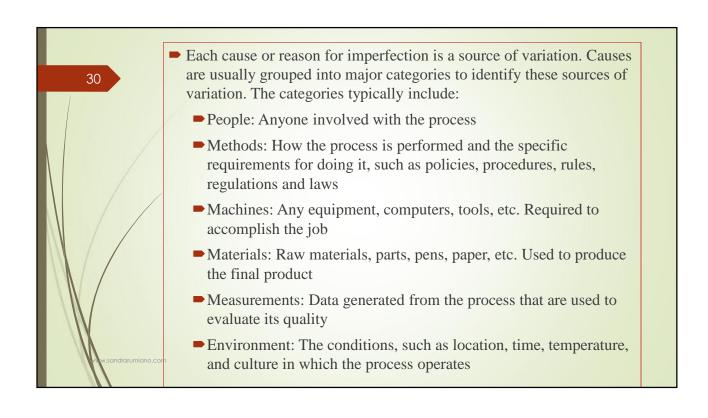


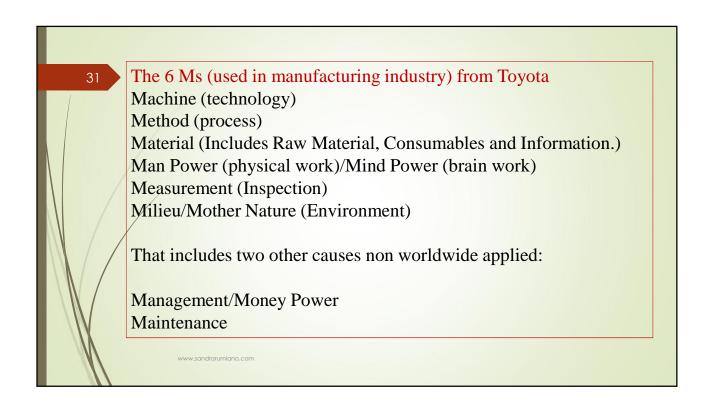


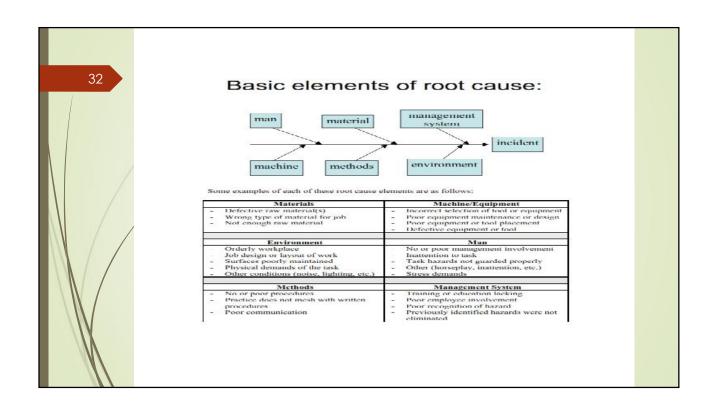


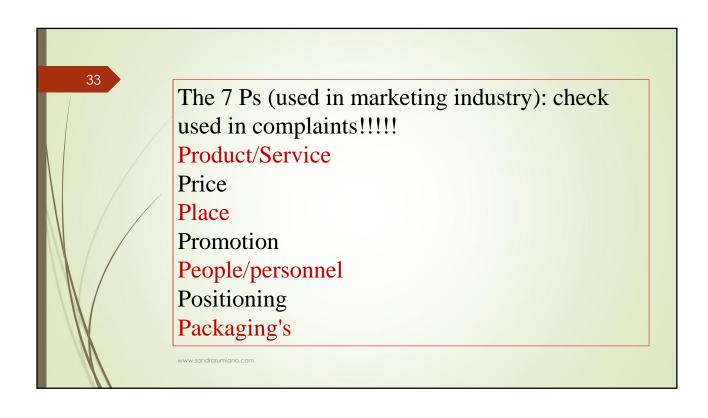


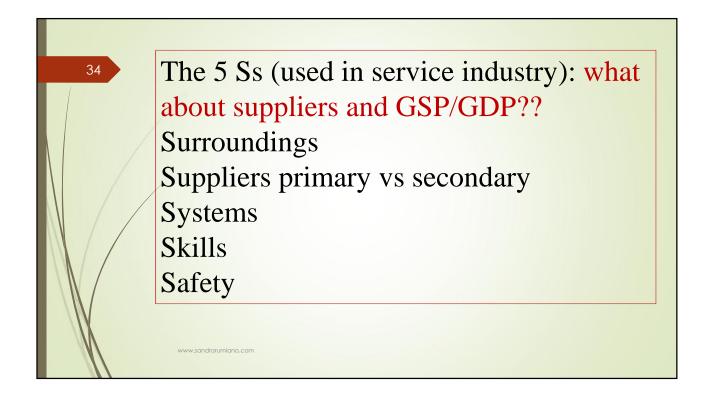












## Root Cause Analyses: practical exercises:

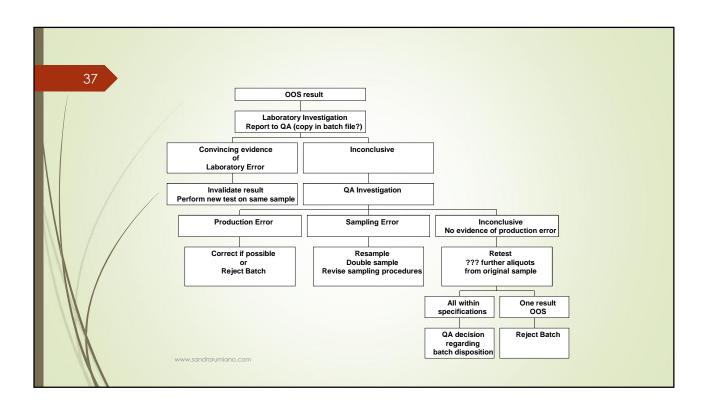
Deviation in vaccine filling: environmental results OOS after maintenance intervention

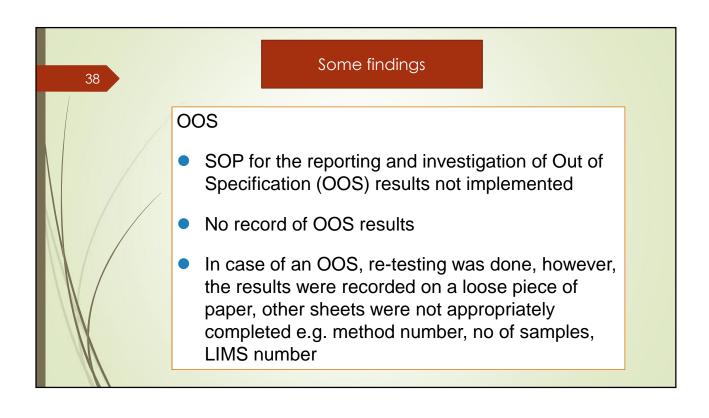
Machine cleaning: is done disorderly, some pieces f clothes are used for cleaning critical parts and protective doors, staff movement is fast because a new lot should be filled.

AEFI during CT document was found uncompleted during an internal audit process

BCG are sent to different countries, labels accomplish the regulatory requirements of each HA, when you are reviewing the BR you found 3 labels coming from 3 different lots, one of them is designated to Peru and the other two to Chile. The target Market is Chile.







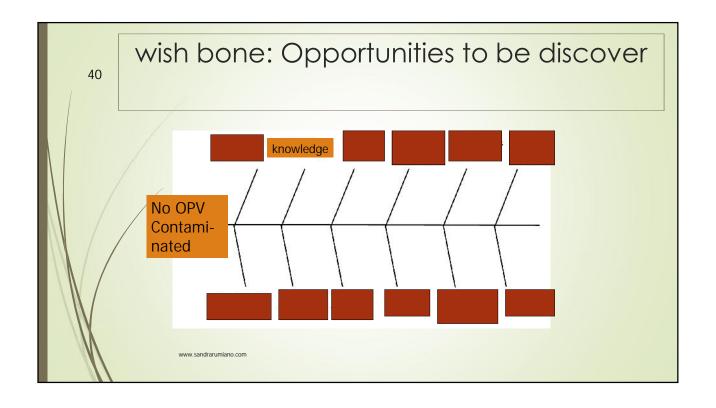
### Root Cause Analyses: practical exercises:

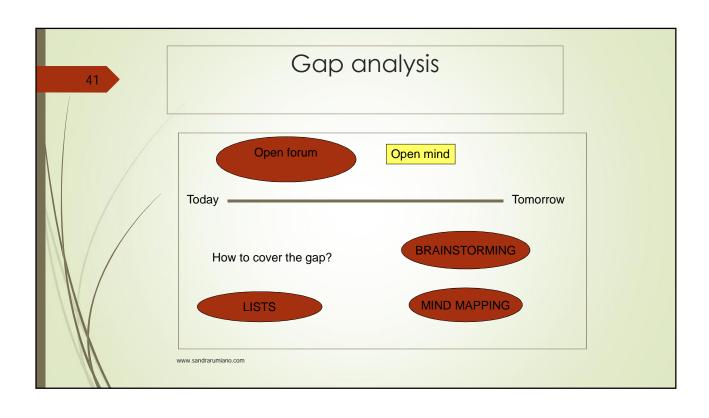
OOS found in WFI sampling in preparation elements area POU (microbiological count OOS) was found at the end of incubation period of samples, you formulated 2 lots of vaccines during the concern week

OOS found environmental monitoring where identification results indicates more than 10 <<ur>
ufc7wright hand in gloves of staff in charge of filling machine (grade A/B) and fungi's collected in settle plates grade B surrounding storage area for double packaging sterile grips and cleaning cloth as well as disinfectant devices.
The filling is aseptic.

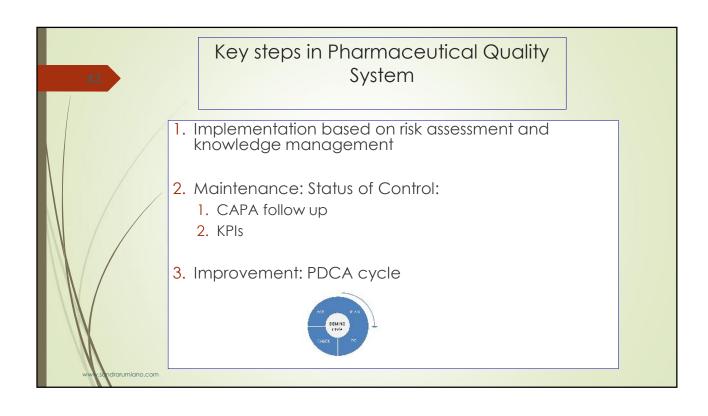
CT: OOS blood results were found in site number 2 of 6. You ask for an investigation

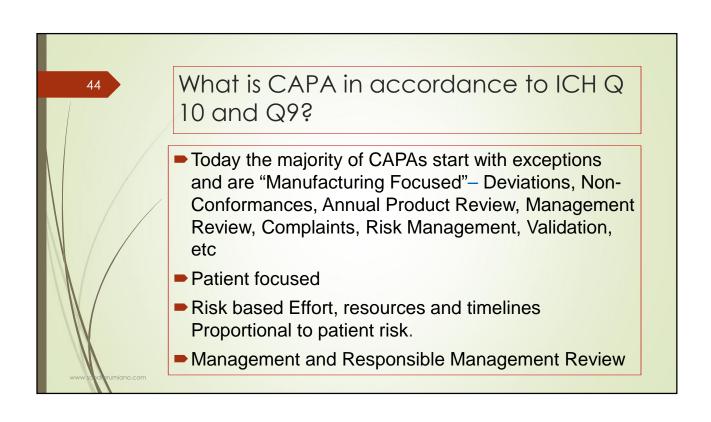
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### Root Cause Analyses: practical exercises:

Vaccines Supply chain complaint: broken vials in OPV (transport form Mexico to Paraguay, via Panama, air cargo)

Flu Vaccines Supply chain complaint: broken ampoules found (transport from Iran to Argentina, via Panama, air cargo)

BCG ampoules: cake was found different than usual

Record on Enviroteiner for yellow fever vaccine failure during air transport form Brazil to Argentina. Internal data loggers function properly. The local responsible claim.

One year after a CT is finished your Company receives a complaint of a the family of a subject that argue is suffering from the consequences of the immunization received.







