DCVMN Pharmacovigilance Training Workshop 5 14 July 2021



ICSR* / AEFI Receipt, Handling, Follow-up and Reconciliation

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Pharmacovigilance activities Workflow



Safety data processing AEFI case handling workflow



Case Receipt

Spontaneous reports AEFIs: Reports from HCPs Reports from vaccinees Reports from NRA / NIP Literature Other sources Case reception

Major actions:

- Case intake / date of receipt (clock date)
- Acknowledge receipt
- Assign case number *
- Tracking of case receipt
- First check of case validity
- Request additional information, where necessary
- Translate AEFI into English, if appropriate

* depending on the PV database system (manual or electronic)

Case Triage



Major actions:

- Duplicate search
- Review of AE information:
 - Assess reported AE terms
 - Assess per regulatory guidelines / definitions:
 - Seriousness
 - Causality (relatedness)
 - Expectedness
- Case prioritization as per regulatory guidelines / regulations
- Determine regulatory clock date (initial case, follow-up information)

Seriousness assessment

- Assessment based on outcome of the AEFI
- ICH E2A seriousness criteria:
 - results in death
 - is life threatening

Requires medical judgement

- requires hospitalization or prolongation of hospitalization
- results in persistent or significant disability Requires medical judgement
- is a congenital anomaly
- is medically important

Requires medical judgement

Determines expedited regulatory reporting of AEFI

Specificities of seriousness assessment



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Relatedness (Causality) Adverse Events following immunization AEFI



- Vaccine product related reaction
- Vaccine quality defect related reaction
- Immunization error related reaction
- Immunization anxiety related reaction

AEFI (WHO/CIOMS): Adverse medical occurrence following immunization and which does not necessarily have a causal relationship with the usage of the vaccine (ICH E2A)

Components of causality assessment



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Causality Assessment WHO Algorithm

World Health Organization



Yes

causal

association to

immunization

Yes

Yes

Mandatory Path

Yes

IV B.

Indeterminate

IV A. Consistent

causal

association to

immunization

Unclassifiable

IV C.

Inconsistent

causal

association to

immunization

WHO Guideline on Causality Assessment



*B1: This is a potential signal and maybe considered for investigation

Expectedness in regulatory reporting

Expectedness of an AEFI depends on the Relevant Safety Information (RSI) ICH E2A / ICHE2D



SPC - Summary of Product Characteristics PIL - Patient Information Leaflet:

- ✓ Medico-legal document
- Safety information approved by Regulatory Authority for health professionals and patients
- ✓ Defines expectedness
- ✓ Basis for expedited regulatory reporting

CCSI: Company Core Safety Information

Data entry

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Medium.com

Major actions:

- Assign case identification number*
- Perform data entry
- Medical Coding:
 - AEFI terms
- Medical history
- Vaccine
- Generate narrative
- Analysis of similar events

* depending on the PV database system (manual or electronic)

Medical Coding



MedDRA® -Medical Dictionary for Regulatory Activities

Medical dictionary for all activities in the frame of Regulatory Activities

- The terminology is used through the entire regulatory process, from pre-marketing to post-marketing, and for data entry, retrieval, evaluation, and presentation
 - To standardize the communication during the whole life-cycle of a product
- Supports electronic reporting of ICSRs and eCTD
- Annual updates (version 24.0 March 2021)

Requires license

Price depends on the annual revenue of the company Fee waiver for SMEs using EVWEB to fulfill reporting obligations in the EU

Quality review

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X	_

Major actions:

- Quality review (QC) 100%
- Check case for accuracy
- Check case for completeness
- Check case for consistency
- Ensure correct coding (AEFI, medical history and product
- Check seriousness and labeling (expectedness)

Medical review



Major actions:

- Confirm triage (prioritization)
- Check case for medical sense
- Check and confirm medical coding
- Check and confirm seriousness and labeling (expectedness)
- Make company causality assessment from medical point of view and / or upgrade reporter causality
- Request non-routine follow-up, if appropriate
- Review the data for potential signals

There is no actual regulation (FDA, EMA, MHRA) that requires a physician to review ICSRs, however medically qualified personnel should review all cases.

Distribution of ICSR Reconciliation

Major actions:

 Submission of expedited report (e.g., 15 day report) according to regulatory requirements (i.e., national / global)

- Distribution to business partner as per Safety Data Exchange Agreement (SDEA)
- Distribution to Safety Monitoring Committee (SMC), if applicable
- Confirm receipt of acknowledgement
- Reconciliation with external data collection
 partners
- Reconciliation with product quality complaints and medical information queries

Reconciliation



Example of AEFI listing for reconciliation

Internal Reference Number	Country	Patient age	Patient sex	Product Name	Batch number	Reported Term	Date received	Initial/ Follow-up/ Duplicate	Date sent to PV

Case completion - Case closure (locking)



Major actions:

- Ensure all data are corrected
- Incorporate any request changes
- Ensure that all follow-up action are completed
- Ensure that no changes can be made after locking in the case*

* depending on the PV database system (manual or electronic)

Typical case handling workflow of a safety database system



Essential data for good case quality





