SCOPE Joint Action Stakeholder Event



Duplicate detection
Topic 1: Audit of national reporting systems

Katarina Gvozdanović, HALMED

20 – 21 March 2017

London

Contents



> Learning objectives

> Overview of deliverables

➤ Ideas & tips



Take home messages

Learning objectives



➤ To understand the importance of duplicate detection and recognise key points of the process

➤ To provide examples of good practice related to duplicate detection process

SCOPE deliverables



➤ Document: Good practice on duplicate detection (with case studies)

> E-learning module: Duplicate detection

Guidance document on duplicate detection



- Good practice on duplicate detection (with case studies)
 - > Describes the importance and key steps of the process
 - ➤ Identification of duplicate cases
 - Conformation of duplicates
 - ➤ Management of duplicates
 - Provides summary of applicable EU guidelines related to duplicate detection
 - Provides recommendations for good practice
 - > Can be used to:
 - Raise awareness
 - > Improve MSs' internal procedures
 - > Education

E-learning module: Duplicate detection



- > Provides an overview of the key steps of the duplicate detection process
 - > Identification of duplicate cases
 - Conformation of duplicates
 - Management of duplicates
- Provides summary of applicable EU guidelines related to duplicate detection
- Provides examples of good practice with duplicate detection
 - Case study 1: MHRA, UK
 - Case study 2: Lareb, The Netherlands
 - Case study 3: SUKL, The Czech Republic
 - Case study 4: Uppsala Monitoring Centre (UMC)
- > Can be used to:
 - Educate new assessors
 - Raise awareness
 - Improve MSs' internal procedures

Identification of duplicates in the ADR database



➤ Depending of the database set-up and number of ADR reports in the database

individual case review of all reports

or

computerised duplicate detection algorithm

Identification of duplicates in the ADR database



Duplicate detection algorithms

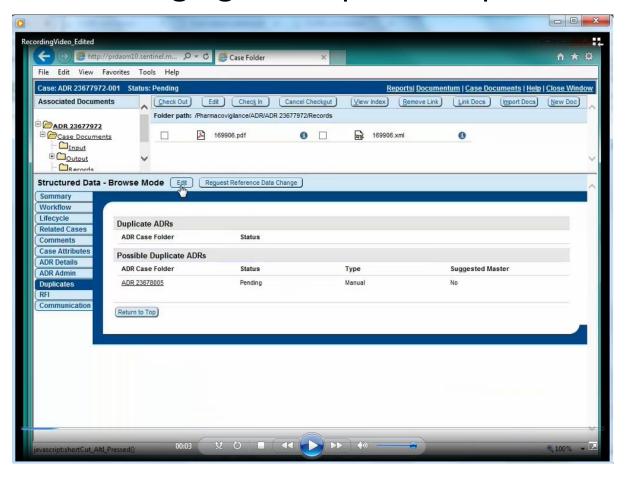
> Generally not published

Usually rely on rules such as: if two reports match on the certain fields, then they are suspected duplicates.



Management of duplicates

Tool used for merging the duplicate reports: UK example



Take home messages



- ➤ Duplication of cases is important data quality problem and can pose significant problem for analysing signals arising from pharmacovigilance databases by misleading clinical assessment or distorting statistical screening, both artificially inflating and masking signals of disproportionate reporting
- There should be a swift and robust duplicate detection procedures at each organisation
- ➤ There are simple solutions applicable for all systems just need to be aware of the issue

Questions?

Contact:

katarina.gvozdanovic@halmed.hr