



EUROPEAN MEDICINES AGENCY  
SCIENCE MEDICINES HEALTH

# EV-M5a EudraVigilance Data Analysis System (EVDAS) training for National Competent Authorities

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Overview of the EVDAS functionalities and EVDAS outputs to support the pharmacovigilance obligations

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(EMA)





- Introduction to this training module
- Introduction to EVDAS
- ICH-E2B(R3) EVDAS implementation
- Standard filtering criteria, new approach
- EudraVigilance administrative query library
- Pharmacovigilance query library
- Summary



# Version 1.0



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## Introduction: Context EV-M5a

- Target audience for this training module:
  - National Competent Authorities (NCAs) in the European Economic Area (EEA)
    - Personnel in the NCAs that use EVDAS for their pharmacovigilance activities
  
- Note: The Art 57 EVDAS dashboard is out of scope of this training module; for this, a dedicated e-learning will be provided.



## Introduction: Learning Objectives

- **At the end of this module participants will be able to:**
  - Understand the role of EVDAS as part of the EudraVigilance system.
  - Be familiar with the new EVDAS catalogue of reports.
  - Be able to retrieve EV data using the EVDAS interface.
  - Understand the EVDAS changes triggered by the new ICH-E2B(R3) standard.
  - Understand the main EVDAS reports and outputs.



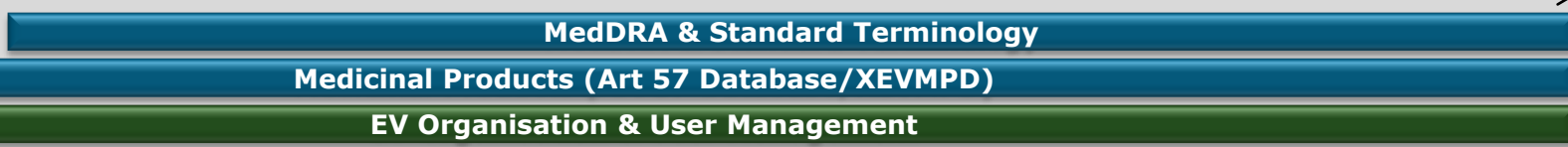
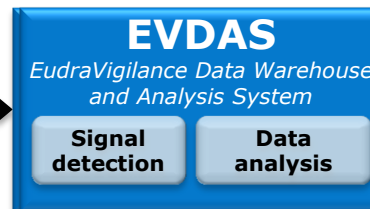
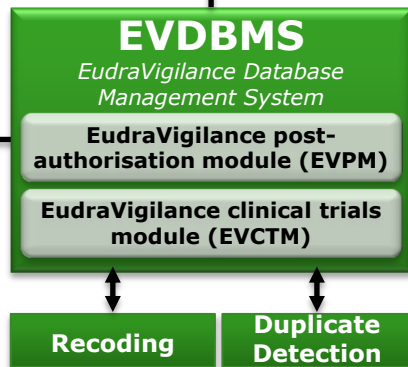
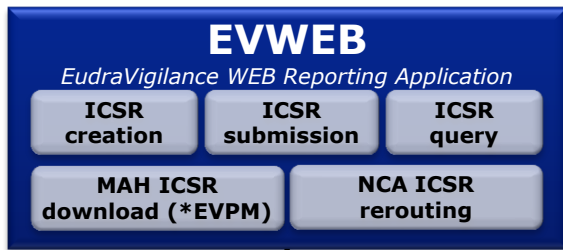
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## Section overview: Introduction to EVDAS

**In this section you will obtain an understanding of:**

- EVDAS – a general introduction and terminology used
- How to access EVDAS
- EVDAS welcome page
- EVDAS catalogue



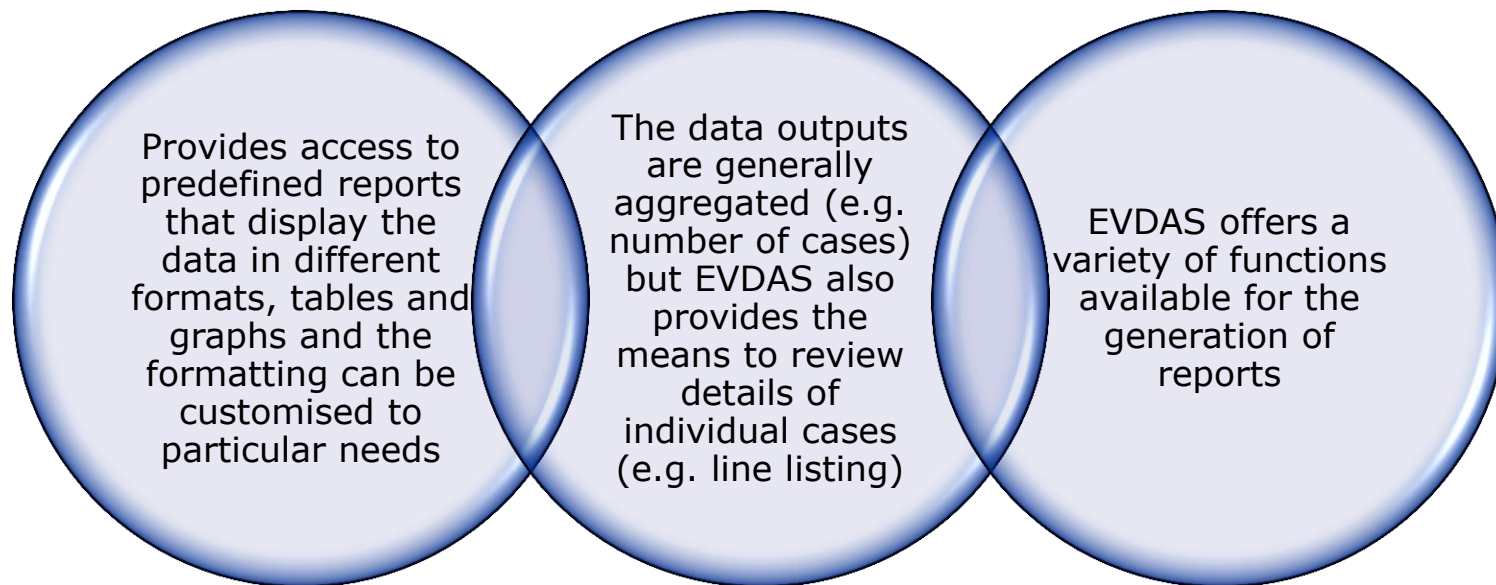


Full description of the EudraVigilance system components and system functionalities are provided in the training module:

EV- M2 Introduction to EV system components and system functionalities



# EVDAS





## EVDAS

The following slides are intended to provide an overview of the main EVDAS features.

This section is intended to be a refresher of the EVDAS interface that could be beneficial for the less experienced users



- **Dashboard** is a combination of formats and prompts that when answered and run provides the data in a form of a report.

- The Icon representing a dashboard:



- The **Report** is the result set of the dashboard that has a defined layout and format.

- The Icon representing a report:



- **Briefing books** are saved version of reports. These can be saved a snapshot (static version) or as updatable (prompt answers a saved and the report re-runs when the briefing book is opened)

- The icon representing a briefing book:



## a. Medicinal Product Reaction Report (# Individual Cases)

### View filter details

No

Recorded Medicinal Product (High Level)

Select View

Active Substance (High Level)

Reaction SOC	Recorded Medicinal Product (High Level)	
	DABRAFENIB	TAFINLAR
Blood and lymphatic system disorders	1	3
Cardiac disorders		1
Eye disorders		3
Gastrointestinal disorders	1	4
General disorders and administration site conditions	3	13
Hepatobiliary disorders		1
Infections and infestations		5
Injury, poisoning and procedural complications	1	3
Investigations		11
Metabolism and nutrition disorders		3
Musculoskeletal and connective tissue disorders		1
Neoplasms benign, malignant and unspecified (incl cysts and polyps)	4	14
Nervous system disorders		3
Psychiatric disorders	1	2
Renal and urinary disorders	1	1
Respiratory, thoracic and mediastinal disorders	1	6
Skin and subcutaneous tissue disorders	1	5
Social circumstances		1
Surgical and medical procedures		2
Vascular disorders	1	3

10:21:43

[Return](#) - [Analyze](#) - [Refresh](#) - [Print](#) - [Export](#) - [Add to Briefing Book](#) - [Create Bookmark Link](#)

## a. Medicinal Product Reaction Report (# Individual Cases)

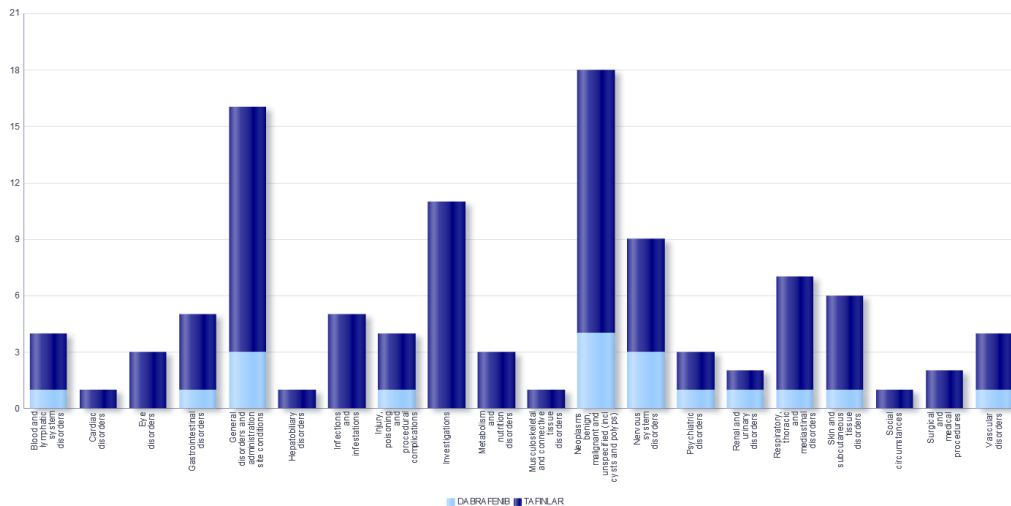
### View filter details

No

Recorded Medicinal Product (High Level)

Select View

Active Substance (High Level)



- Filters define conditions that data must meet to be included in the report results. Only data that meets all the report conditions appears in the final results.
- To see the filters selected together with the report results, the option 'view filters details' should be selected as Yes.

## b. Medicinal Product Reaction Report (# Adverse Reactions)

**View filter details**

Yes ▼

Active Substance (High Level) is equal to **DASATINIB**  
and Reaction PT is equal to **Anaemia**

- Prompts enable users to select conditions to be included in a report.

### Report Prompts

**Select a filtering condition to display Simple or Advanced filtering criteria**  
Choose objects from the list  
This prompt allows only one selection

Select to display a list of simple filtering criteria (pre-filtered for valid cases, excluding duplicates, as of today)  
 Select to display a list of advanced filtering criteria

---

**1. Filter on Active Substance**  
Select an Active Substance (High Level) from the list to filter the report results

Active Substance (High Level)

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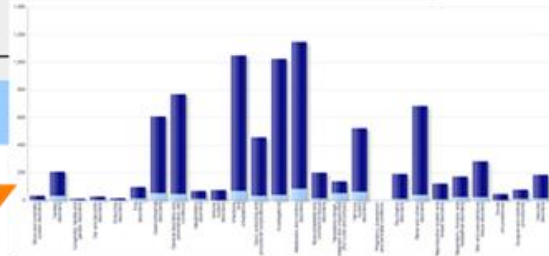
**2. Filter on MedDRA 'Reaction PT'**  
Select a MedDRA Reaction PT from the list to filter the report results

Reaction PT

---

**Click on Link to run Report**

[a. Medicinal Product Reaction Report \(# Individual Cases\)](#)





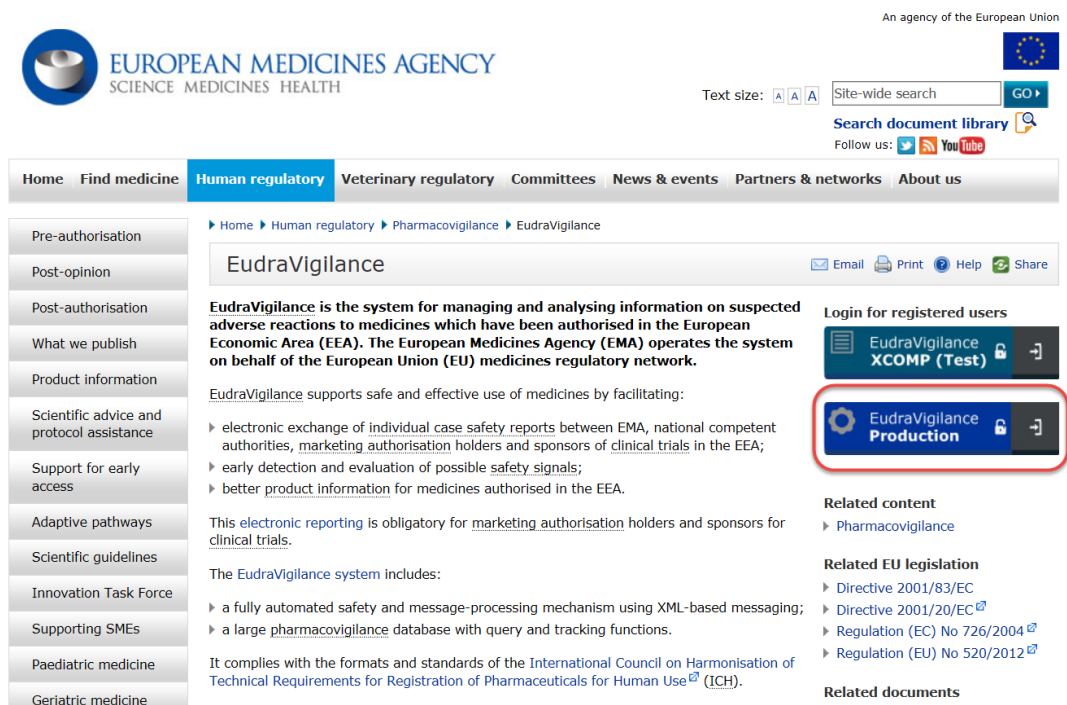
## Accessing EVDAS

EVDAS can only be accessed via EudraNet. In practice, this means that to access EVDAS users will either need to be in a National Competent Authority (NCA) or the European Commission (EC) or operating from within the firewall of the EC or an NCA, for example via remote log-in.

From within EudraNet, there are two methods of accessing EVDAS:

- via the EudraVigilance webpage;
- via the EVDAS welcome page;

[http://www.ema.europa.eu/ema/index.jsp?curl=pages/regulation/general/general\\_content\\_000679.jsp&mid=WC0b01ac05800250b5](http://www.ema.europa.eu/ema/index.jsp?curl=pages/regulation/general/general_content_000679.jsp&mid=WC0b01ac05800250b5)



The screenshot shows the EMA website's EudraVigilance page. At the top left is the EMA logo and name. A search bar and social media links are on the right. A navigation menu includes 'Home', 'Find medicine', 'Human regulatory' (highlighted), 'Veterinary regulatory', 'Committees', 'News & events', 'Partners & networks', and 'About us'. A left sidebar lists various regulatory topics. The main content area features a breadcrumb trail, a title 'EudraVigilance', and a description: 'EudraVigilance is the system for managing and analysing information on suspected adverse reactions to medicines which have been authorised in the European Economic Area (EEA). The European Medicines Agency (EMA) operates the system on behalf of the European Union (EU) medicines regulatory network.' Below this, it states that EudraVigilance supports safe and effective use of medicines by facilitating: electronic exchange of individual case safety reports, early detection and evaluation of possible safety signals, and better product information. It also notes that electronic reporting is obligatory for marketing authorisation holders and sponsors for clinical trials. A section titled 'The EudraVigilance system includes:' lists a fully automated safety and message-processing mechanism and a large pharmacovigilance database. At the bottom, it states compliance with ICH standards. On the right, there are login options for 'EudraVigilance XCOMP (Test)' and 'EudraVigilance Production' (highlighted with a red box), along with sections for 'Related content', 'Related EU legislation', and 'Related documents'.



**Logged In**

[Redacted]  
(EVHUMANWT)  
Human Production

**EV Services**

- ▶ EVWEB
- ▶ xEVMPD Export
- ▶ xEVMPD Bulk update
- ▶ **EV Data Warehouse**
- ▶ EV Post

Welcome to the restricted area of the EudraVigilance website

To continue, please select one of the available functionalities from the menus on the left of the screen



## Accessing EVDAS

- Access via EVDAS welcome page:
- [http://bi.eudra.org/analytics/saw.dll?dashboard&PortalPath=%2Fshared%2FEudraVigilance%20DWH%20\(EVDAS\)%2F\\_portal%2FEudraVigilance%20Data%20Analysis%20System](http://bi.eudra.org/analytics/saw.dll?dashboard&PortalPath=%2Fshared%2FEudraVigilance%20DWH%20(EVDAS)%2F_portal%2FEudraVigilance%20Data%20Analysis%20System).





Username and password are case sensitive

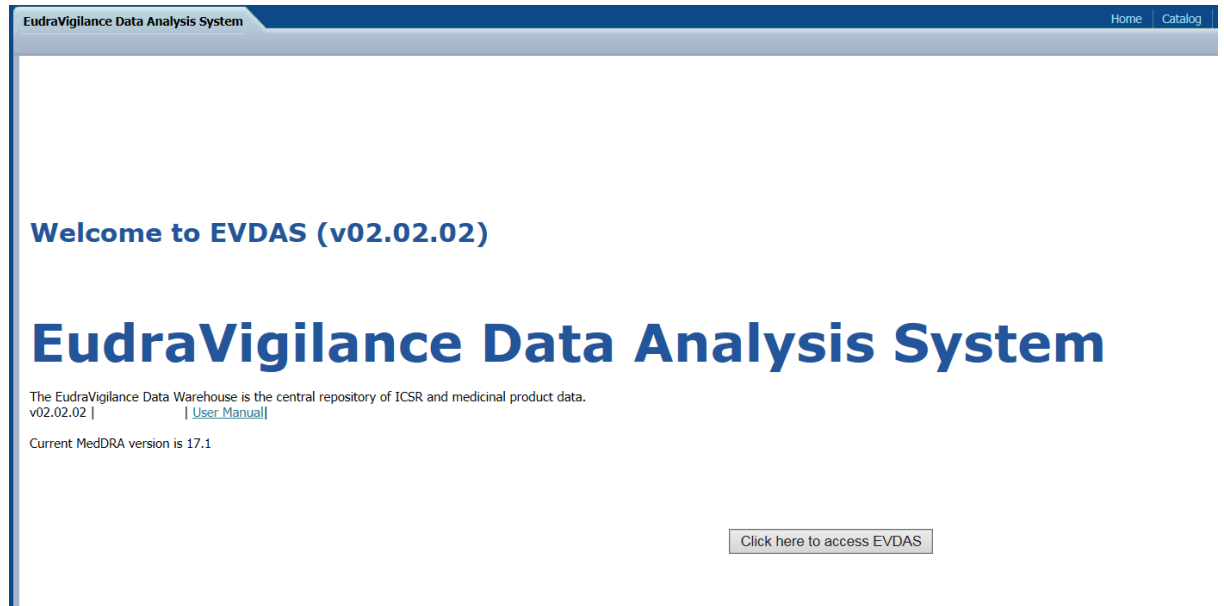
**Welcome**

Enter your Single Sign-On credentials below

**Username:**

**Password:**

If you access EVDAS  
via the EV webpage  
or through the  
EVDAS page, you will  
arrive at the EVDAS  
welcome page



The screenshot shows the EudraVigilance Data Analysis System welcome page. At the top, there is a navigation bar with 'EudraVigilance Data Analysis System' on the left and 'Home' and 'Catalog' on the right. The main content area features the heading 'Welcome to EVDAS (v02.02.02)' in blue. Below this is the title 'EudraVigilance Data Analysis System' in a larger blue font. A paragraph of text states: 'The EudraVigilance Data Warehouse is the central repository of ICSR and medicinal product data. v02.02.02 | [User Manual](#)'. Below that, it says 'Current MedDRA version is 17.1'. At the bottom right, there is a button that says 'Click here to access EVDAS'.

Be aware that in this page you will be able to access the training manuals and also you will know the current MedDRA version implemented in the system

Home

Home

Catalog

Favorites ▾

Dashboards ▾

New ▾

Open ▾

Signed In As

## Create...



### Analysis and Interactive Reporting

Analysis | Filter | Dashboard Prompt



### Published Reporting

Report Job



### Actionable Intelligence

Action

## Browse/Manage...

All Content ▾

My Analyses

My Reports

## Get Started...

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## Recent

### Dashboards



EudraVigilance Data Analysis S...

Open | More ▾



c. Medicinal Product Reaction...

Open | More ▾



Active substance grouping - co...

Open | More ▾



PSUR Summary Tabulation - c...

Open | More ▾



My Dashboard - page 1

Open | Edit | More ▾

### Others



eRMR Simplified Enhanced Ind...

Open | Edit | More ▾



c. Medicinal Product Reaction...

Open | Edit | More ▾



Active substance grouping

Open | Edit | More ▾



Votrient - polycythaemia

Edit | PDF | Web Archive (.mht) | More ▾



Vemurafenib July 2016

Edit | PDF | Web Archive (.mht) | More ▾



Lyrica RMR

Edit | PDF | Web Archive (.mht) | More ▾



Untitled

Edit | PDF | Web Archive (.mht) | More ▾



Access to Information query

Open | Edit | More ▾



## Most Popular



Enhanced Individual Case Line...

Open | Edit | More ▾



Enhanced Individual Case Line...

Open | More ▾



c. Medicinal Product Reaction...

Open | Edit | More ▾



c. Medicinal Product Reaction...

Open | More ▾



eRMR Simplified Enhanced Ind...

Open | Edit | More ▾






b. Static PRR Evaluation - copy...




Open | More ▾

Home Catalog Favorites ▾ Dashboards ▾ New ▾ Open ▾ Signed In As [User]






### Create...

-  **Analysis and Interactive Reporting**  
Analysis | Filter | Dashboard Prompt
-  **Published Reporting**  
Report Job
-  **Actionable Intelligence**  
Action

### Browse/Manage...






-  All Content ▾
-  My Analyses
-  My Reports

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-  Download BI Desktop Tools ▾
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 PSUR Summary Tabulation - c... Open   More ▾	 My Dashboard - page 1 Open   Edit   More ▾	

#### Others

 eRMR Simplified Enhanced Ind... Open   Edit   More ▾	 c. Medicinal Product Reaction... Open   Edit   More ▾	 Active substance grouping Open   Edit   More ▾
 Votrien - polycythaemia Edit   PDF   Web Archive (.mht)   More ▾	 Vemurafenib July 2016 Edit   PDF   Web Archive (.mht)   More ▾	 Lyrica RMR Edit   PDF   Web Archive (.mht)   More ▾
 Untitled Edit   PDF   Web Archive (.mht)   More ▾	 Access to Information query Open   Edit   More ▾	

### Most Popular

 Enhanced Individual Case Line... Open   Edit   More ▾	 Enhanced Individual Case Line... Open   More ▾	 c. Medicinal Product Reaction... Open   Edit   More ▾
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Home Catalog Favorites Dashboards New Open Signed In As

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- c. Medicinal Product Reaction...  
Open | More
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- Active substance grouping - co...  
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#### Others

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- Votrient - polycythaemia  
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- Untitled  
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Open | More

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c. Medicinal Product Reaction...  
Open | More ▾

Enhanced Individual Case Line...  
Open | More ▾




eRMR Simplified Enhanced Ind...  
Open | Edit | More ▾

c. Medicinal Product Reaction...  
Open | Edit | More ▾




b. Static PRR Evaluation - copy...  
Open | More ▾

Home Catalog Favorites ▾ Dashboards ▾ New ▾ Open ▾ Signed In As [User] ▾






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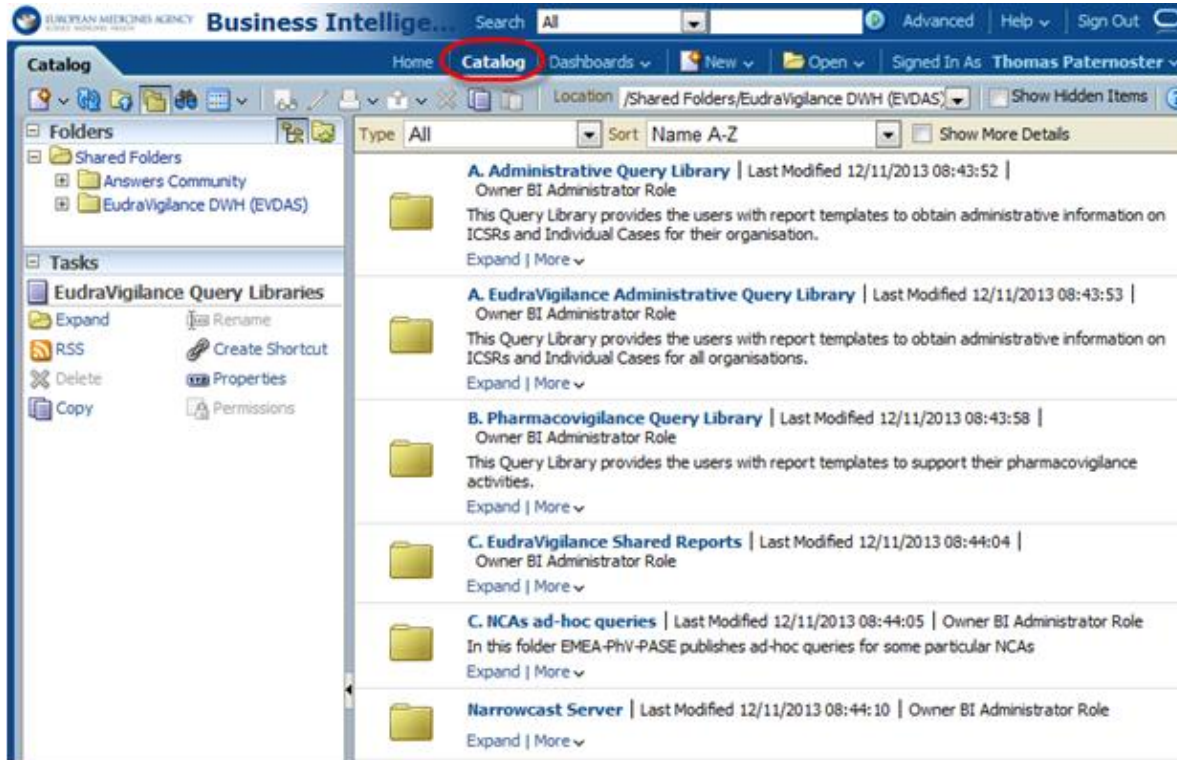
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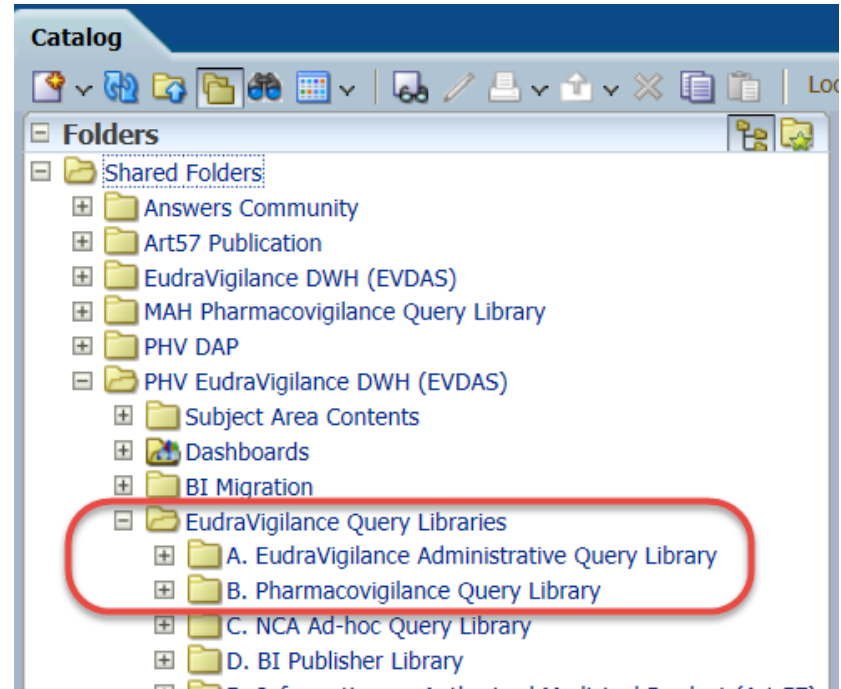


The screenshot displays the EVDAS Catalogue interface within a Business Intelligence environment. The interface includes a navigation pane on the left with 'Folders' and 'Tasks' sections. The main area shows a list of query libraries with columns for 'Type', 'Name', and 'Last Modified'. The 'Catalog' tab is highlighted in the top navigation bar.

Type	Name	Last Modified
A.	Administrative Query Library	12/11/2013 08:43:52
A.	EudraVigilance Administrative Query Library	12/11/2013 08:43:53
B.	Pharmacovigilance Query Library	12/11/2013 08:43:58
C.	EudraVigilance Shared Reports	12/11/2013 08:44:04
C.	NCAs ad-hoc queries	12/11/2013 08:44:05
	Narrowcast Server	12/11/2013 08:44:10



In the folder  
**EudraVigilance  
Query Libraries**  
you will find the new  
catalogue of reports.  
Some of the reports  
are new and other  
have been enhanced



This training module will focus on the EudraVigilance **Administrative Query Library**  
and the **Pharmacovigilance Query Library**



Full description of EVDAS and its functionalities is provided in the following training manual:

**EV-G2 EVDAS Report Manual**

**Note: if you are not yet familiar with EVDAS, consult the EVDAS user manual, specifically the chapter on executing queries**



## Section Summary

### **In this section you obtained an understanding of:**

- What is EVDAS and the different ways to access EVDAS
- General EVDAS terminology
- EVDAS welcome page
- How to access the EVDAS catalogue



- Introduction to this training module
- Introduction to EVDAS
- ICH-E2B(R3) EVDAS implementation**
- Standard filtering criteria, new approach
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- Summary



## Section overview: ICH-E2B(R3) EVDAS implementation

### **In this section you will obtain an understanding of:**

- The main fields in the EVDAS reports that are impacted due to the implementation of the ICH-E2B(R3) standard in EudraVigilance
- How the EVDAS filters and outputs have been modified in light of the implementation of the ICH-E2B(R3) standard in EudraVigilance
- The differences in those fields with the previous data structure - ICH-E2B(R2)



Note: this section is not intended to provide a full explanation of the ICH E2B(R3) data elements; it will only outline those that have a direct impact in the EVDAS prompts and therefore triggered changes in the way the database is queried and the data is filtered.

The implementation of some of the new elements in ICH E2B(R3) is also described in this section.



## ICH-E2B(R3) EVDAS implementation

- EVDAS has been updated and enhanced to support the ICH-E2B(R3) format and new data elements.
- For a period of time MAHs/NCAs will be able to submit ICSRs in R2 format but those will be converted to the new R3 data structure.
- All existing ICSRs in ICH E2B(R2) format have been migrated to the new ICH E2B(R3) standard.
- Users should always be aware that EudraVigilance contains ICSRs submitted in ICH-E2B(R2) and (R3) format and that should be always taken into account when analysing the data (e.g. filtering on new data elements introduced in ICH E2B(R3) standard will not retrieve any case reported under ICH E2B(R2)).

- New data element introduced in ICH E2B(R3) format (C.2.r.5).
- Identifies which of the primary sources in the ICSR is used for regulatory purposes.
- Based on that, the country of the primary source for regulatory purposes can be identified.

## Impact on EVDAS Implementation

A new filter for “primary source country for regulatory purposes” is created

R2 data      Use the following algorithm:

- occurrence country,
- if missing, primary source country
- if missing, country code from the Worldwide Unique Case Identification Number

R3 data      Use the country of the primary source for regulatory purposes (C.2.r.5)

EVDAS outputs containing country information (e.g. line listing) are modified to show the primary source country for regulatory purposes



- This field was provided at case level in ICH E2B(R2) terminology – ‘Identification of the country of the primary source’ (A.1.1).
- In ICH E2B(R3) can be found under the data element ‘Reporter’s country code’ (C.2.r.3) for each of the reporters and therefore there could be more than one ‘Reporter’s country’ in the same ICSR.

## Impact on EVDAS Implementation

The filter for ‘primary source country’ is maintained

R2 data      Use the country of the primary source of the report (A.1.1)

R3 data      Use the primary source country for regulatory purposes (C.2.r.5) in order to harmonise the approach between R2 and R3.



- This field was provided at case level in ICH E2B(R2) – ‘Identification of the country where the reaction/event occurred’ (A.1.2).
- In ICH E2B(R3) format, the information is provided in the ‘Identification of the country where the reaction/event occurred’ (E.i.9) for each of the reactions in the ICSR.

## Impact on EVDAS Implementation

The filter for ‘Occurrence country’ is maintained

R2 data      Use the following algorithm when retrieving the data using the EVDAS filter:

- occurrence country (A.1.2),
- if missing, primary source country (A.1.1)
- If missing, country code for the Worldwide Unique Case Identification Number

R3 data      Use the identification of the country where the reaction/event occurred (E.i.9)

Remember, EVDAS outputs containing country information (e.g. Line listing) will use the primary source country for regulatory purposes.



# Country filters

## 6. Select any other additional criteria to filter the report results

Choose objects from the list

EV Message Gateway Date	Between	<input type="text"/>	<input type="text"/>	Case Serious	--Select Value--	Primary Source Qualification	--Select Value--
Receive Date	Between	<input type="text"/>	<input type="text"/>	Reaction Seriousness Death	--Select Value--	Primary Source Country for Regulatory Purposes	--Select Value--
Reaction Outcome		--Select Value--		Reaction Seriousness Congenital Anomaly	--Select Value--	Primary Source Country	--Select Value--
Fatal	<input type="checkbox"/>	Yes		Reaction Seriousness Hospitalisation	--Select Value--	Primary Source Country EEA/Non EEA	--Select Value--
Parent Child Report	<input type="checkbox"/>	Yes		Reaction Seriousness Disabling	--Select Value--	Occurrence Country	--Select Value--
Eudravigilance Pregnancy Report	<input type="checkbox"/>	Yes		Reaction Seriousness Lifethreatening	--Select Value--	Occurrence Country EEA/NON EEA	--Select Value--
Age Range	Between	--Select Value--	--Select Value--	Reaction Seriousness Other	--Select Value--	Organisations sending the ICSRs	--Select Value--
Age Group		--Select Value--				<input type="checkbox"/> Select by Organisation ID	
Patient Sex		--Select Value--				Sender Type	--Select Value--

Filters on country are placed in section 6. 'Select any other additional criteria to filter the report results' in the EVDAS reports.

- This field was provided at case level in ICH E2B(R2) – ‘Seriousness criteria’ (A.1.5.2.).
- Seriousness criteria are provided at reaction level in ICH E2B(R3) – ‘Seriousness criteria at event level’ (E.i.3.2 a-f).

## Impact on EVDAS Implementation

New filters are created to reflect the different seriousness criteria per reaction

R2 data      For each of the reactions all the seriousness criteria provided at case level are applied at reaction level (A.1.5.2)

R3 data      Use the seriousness criteria at reaction level (E.i.3.2)

- The possibility to filter for seriousness at case level is maintained and updated to retrieve ICH-E2B(R2) and ICH E2B(R3) data.

## Impact on EVDAS Implementation

The filter for 'case serious' is maintained

R2 data      Use the field "Serious" (A.1.5.1) provided at case level

R3 data      If at least one reaction contains any seriousness criteria marked as "Yes", the case will be considered serious



## Seriousness filters

### 6. Select any other additional criteria to filter the report results

Choose objects from the list

EV Message Gateway Date Between  -

Receive Date Between  -

Reaction Outcome

Filters on seriousness are placed in section 6. 'Select any other additional criteria to filter the report results' in the EVDAS reports.

Case Serious

Reaction Seriousness Death

Reaction Seriousness Congenital Anomaly

Reaction Seriousness Hospitalisation

Reaction Seriousness Disabling

Reaction Seriousness Lifethreatening

Reaction Seriousness Other

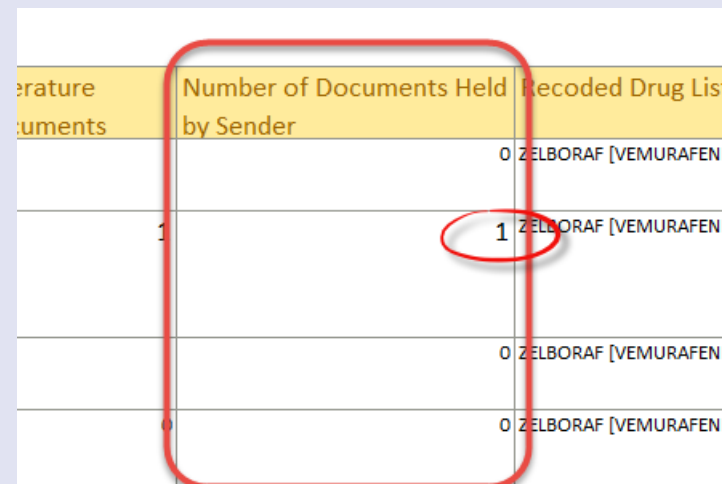
- New data element introduced in ICH E2B (R3) - C.1.6.1.r.2.
- Contains the actual content of documents held by the sender (C.1.6.1.r.1) if the sender chooses to send the document (e.g. clinical records, autopsy reports, X-rays).

## Impact on EVDAS Implementation

R2 data Not applicable

R3 data The documents are accessible via de individual case line listing

- Line listing hyperlink



The screenshot shows a table with three columns: 'Number of Documents Held by Sender', 'Recorded Drug List', and an unlabeled column. The first row has values 0, ZELBORAF [VEMURAFENI], and 0. The second row has values 1, ZELBORAF [VEMURAFENI], and 1. The third row has values 0, ZELBORAF [VEMURAFENI], and 0. The fourth row has values 0, ZELBORAF [VEMURAFENI], and 0. A red box highlights the first two columns, and a red circle highlights the cell containing the number 1 in the second row.

Number of Documents Held by Sender	Recorded Drug List	
0	ZELBORAF [VEMURAFENI]	0
1	ZELBORAF [VEMURAFENI]	1
0	ZELBORAF [VEMURAFENI]	0
0	ZELBORAF [VEMURAFENI]	0

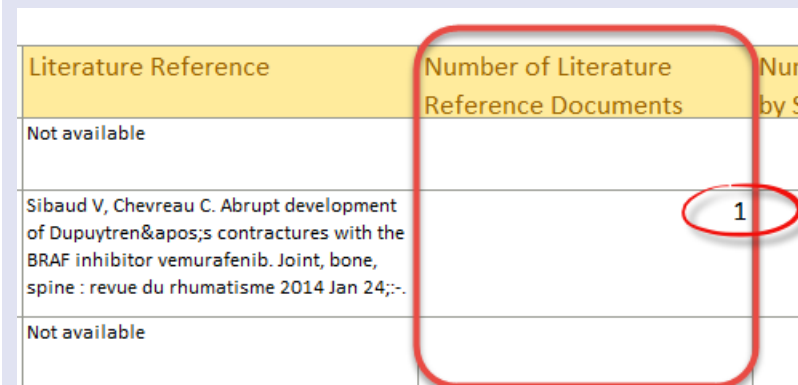
- New data element introduced in ICH E2B(R3) - C.4.r.2.
- Contains the actual content referenced in C.4.r.1 'Literature reference' when the sender chooses to send a copy of the literature article.

## Impact on EVDAS Implementation

R2 data Not applicable

R3 data The articles are accessible via de individual case line listing

- Line listing hyperlink



Literature Reference	Number of Literature Reference Documents	Number by S
Not available		
Sibaud V, Chevreau C. Abrupt development of Dupuytren's contractures with the BRAF inhibitor vemurafenib. Joint, bone, spine : revue du rhumatisme 2014 Jan 24;:-		1
Not available		



- This field was provided at case level in ICH E2B(R2) - A.1.14 'Was the case medically confirmed, if not initially reported from a healthcare professional?'
- In ICH E2B(R3) format, the information is provided for each reaction as part of the data element 'Medical confirmation by healthcare professional' (E.i.8). The field indicates whether the occurrence of the event was subsequently confirmed by a healthcare professional.

## Impact on EVDAS Implementation

R2/R3      No filter is implemented in EVDAS for this data field. To identify cases reported by patients, the filter on primary source qualification (HCP/non-HCP) should be used

The field is populated in the ICSR form.

- New data element introduced in the ICH E2B(R3) format 'Study registration' C.5.1.r.1
- The field is populated with the study registration number as assigned in a reporting region
- In the EEA the study registration number is the EudraCT number

---

## Impact on EVDAS Implementation

---

The previous filter "EudraCT number" is renamed to "Study registration number"

R2 data            Use the EudraCT number

R3 data            Use the study registration number (C.5.1.r.1)

The EVDAS report B.6.a is renamed to 'EVCTM cases by study registration number'

---

- New data element introduced in the ICH E2B(R3) format 'study registration country' (C.5.1.r.2)
- Populated with the country that assigned the study registration number (C.5.1.r.1)
- For studies with EudraCT the study registration country is "European Union"

## Impact on EVDAS Implementation

A new filter for 'study registration country' is created

R2 data            Use "European Union" for the cases with EudraCT number

R3 data            Use the study registration country (C.5.1.r.2)



# Study details filters

## 6. Select any other additional criteria to filter the report results

Choose objects from the list

EV Message Gateway Date Between <input type="text"/> - <input type="text"/>	Case Seriousness <input type="text" value="--Select Value--"/>	Primary Source Qualification <input type="text" value="--Select Value--"/>	Term Highlighted <input type="text" value="--Select Value--"/>
Receive Date Between <input type="text"/> - <input type="text"/>	Reaction Seriousness Death <input type="text" value="--Select Value--"/>	Primary Source Country for Regulatory Purposes <input type="text" value="--Select Value--"/>	Study Registration Number <input type="text" value="--Select Value--"/>
Reaction Outcome <input type="text" value="--Select Value--"/>	Reaction Seriousness Congenital Anomaly <input type="text" value="--Select Value--"/>	Primary Source Country <input type="text" value="--Select Value--"/>	Study Registration Country <input type="text" value="--Select Value--"/>
Fatal <input type="checkbox"/> Yes	Reaction Seriousness Hospitalisation <input type="text" value="--Select Value--"/>	Primary Source Country EEA/Non EEA <input type="text" value="--Select Value--"/>	Sponsor Study Number <input type="text" value="--Select Value--"/>
Parent Child Report <input type="checkbox"/> Yes	Reaction Seriousness Disabling <input type="text" value="--Select Value--"/>	Occurrence Country <input type="text" value="--Select Value--"/>	Meddra Gender <input type="text" value="--Select Value--"/>
Eudravigilance Pregnancy Report <input type="checkbox"/> Yes	Reaction Seriousness Lifethreatening <input type="text" value="--Select Value--"/>	Occurrence Country EEA/NON EEA <input type="text" value="--Select Value--"/>	Administration Route <input type="text" value="--Select Value--"/>
Age Range <input type="text" value="--Select Value--"/>	Organisations sending the ICSRs <input type="text" value="--Select Value--"/>	Organisations sending the ICSRs <input type="text" value="--Select Value--"/>	Pharmaceutical form <input type="text" value="--Select Value--"/>
Age Group <input type="text" value="--Select Value--"/>	<input type="checkbox"/> Select by Organisation ID	Sender Type <input type="text" value="--Select Value--"/>	Medicinal Product Batch Number <input type="text"/>
Patient Sex <input type="text" value="--Select Value--"/>			Positive rechallenge <input type="text" value="--Select Value--"/>

Filters on study details are placed in section 6. 'Select any other additional criteria to filter the report results' in the EVDAS reports

- New data element introduced in ICH E2B(R3) format – ‘Family history’ (D.7.1.r.6)
- It is set to “Yes” when the medical information provided in the structured information on relevant medical history (D.7.1.r) is reported also to be present in another family member (e.g. hereditary diseases)

## Impact on EVDAS Implementation

This field is not implemented as a filter in the EVDAS reports

The information is reflected in the new ICSR form

Relevant Medical History and Concurrent Conditions					
MedDRA LLT	Start Date	End Date	Continuing	Family History	Comments
Atrial fibrillation	10/10/1995		Yes	Yes	The patient was diagnosed with atrial fibrillation in another hospital and no records are in our files
Pneumothorax	04/01/1996		No		The pneumothorax was a spontaneous pneumothorax and the patient had to be intubated for more than a week.

- The ICH E2B(R2) data element 'indication for use in the case' (B.4.k.11) becomes a repeatable data element in ICH E2B(R3) within the drug section without the need to repeat the entire drug section (G.k.7.r.2b)

## Impact on EVDAS Implementation

The previous filter for indication placed in the 'Medicinal Product hierarchy' section is moved to a new section.

R2 data            Use indication for use in the case (B.4.k.11)

R3 data            Use the indication for use in case (G.k.7.r.2b) MedDRA code

The indication is shown in the individual case line listing and in the ICSR form



# Filter on the "Indication" for use

8. Select the Indication (as reported in the ICSR or as authorised in article 57 database) from the MedDRA hierarchy to filter the report results

MedDRA Reported Indication Terms

- none
- MedDRA reported Indication PT
- MedDRA reported Indication HLT
- MedDRA reported Indication HLT Multiaxial
- MedDRA reported Indication HLG T
- MedDRA reported Indication HLG T Multiaxial
- MedDRA reported Indication SOC
- MedDRA reported Indication SOC Multiaxial
- MedDRA reported Indication SMQ Level 1
- MedDRA reported Indication SMQ Level 2
- MedDRA reported Indication SMQ Level 3
- MedDRA reported Indication SMQ Level 4
- MedDRA reported Indication SMQ Level 5

- AND
- OR

MedDRA Art57 Terms

- none
- MedDRA article 57 authorised indication PT
- MedDRA article 57 authorised indication HLT
- MedDRA article 57 authorised indication HLT Multiaxial
- MedDRA article 57 authorised indication HLG T
- MedDRA article 57 authorised indication HLG T Multiaxial
- MedDRA article 57 authorised indication SOC
- MedDRA article 57 authorised indication SOC Multiaxial
- MedDRA article 57 authorised indication SMQ Level 1
- MedDRA article 57 authorised indication SMQ Level 2
- MedDRA article 57 authorised indication SMQ Level 3
- MedDRA article 57 authorised indication SMQ Level 4
- MedDRA article 57 authorised indication SMQ Level 5

Filters on indication are placed in section 8. Select the Indication (as reported in the ICSR or as authorised in article 57 database) from the MedDRA hierarchy to filter the report results

- A new value 'drug not administered' is available in the new ICH E2B(R3) format for the data field 'drug role characterisation' (G.k.1)

## Impact on EVDAS Implementation

The EVDAS filter "Medicinal Product Characterisation" has been modified to include the new value

The enhanced individual case line listing is modified to include this new drug role in the "enhance reported drug list" column

- This filter can be found in Section 5. in the EVDAS reports :

### 5. Select the Medicinal Product Characterisation

Choose object from the list

Medicinal Product Characterisation

Only Suspect/Interacting Medicinal Products

Only Suspect/Interacting Medicinal Products

Suspect/Interacting/Concomitant Medicinal Products (including not specified)

Drug not administered

Search...

### 6. Select any other additional criteria to filter the report results

Choose objects from the list





- In the new ICH E2B(R3) format these data elements are repeatable for the same drug

## **Impact on EVDAS Implementation**

These fields are included in the outcome of the individual case line listing under the enhanced 'reported drug list' column.

The line listing contains only data of the 1<sup>st</sup> occurrence of the repeated fields based on the earliest drug start date

The rest of the values can be found in the ICSR form

The line listing is modified to include the string 'more in ICSR' when one of these data fields contains more than one value

- New data element introduced in the ICH E2B(R3) format (G.k.9.i.4) 'did the reaction recur on re-administration'. This data element indicates both if the patient was rechallenged with the drug and the known outcome.
- R2 data used the data element 'did reaction recur on readministration?' (B.4.k.17.1) and if yes then 'which reaction(s)/event(s) recurred?' under data element (B.4.k.17.2)

## Values allowed in the ICH E2B(R3) data field "Did Reaction Recur on Re-administration?" (G.k.9.i.4)

1	yes – yes	rechallenge was done, reaction recurred
2	yes – no	rechallenge was done, reaction did not recur
3	yes – unk	rechallenge was done, outcome unknown
4	no – n/a	no rechallenge was done, recurrence is not applicable

### Impact on EVDAS Implementation

A new filter is created to retrieve the cases with positive rechallenge information

R2 data Use only positive rechallenge when the reaction recurred on readministration and the reaction is provided (B.4.k.17.1) & (B.4.k.17.2).

R3 data Use only positive rechallenge (yes-yes) from the data element "Did the Reaction Recur on Re-administration?" (G.k.9.i.4)



# Filter on rechallenge

**6. Select any other additional criteria to filter the report results**

Choose objects from the list

EV Message Gateway Date Between <input type="text"/> - <input type="text"/>	Case Seriousness <input type="text"/>	Primary Source Qualification <input type="text"/>	Term Highlighted <input type="text"/>
Receive Date Between <input type="text"/> - <input type="text"/>	Reaction Seriousness Death <input type="text"/>	Primary Source Country for Regulatory Purposes <input type="text"/>	Study Registration Number <input type="text"/>
Reaction Outcome <input type="text"/>	Reaction Seriousness Congenital Anomaly <input type="text"/>	Primary Source Country <input type="text"/>	Study Registration Country <input type="text"/>
Fatal <input type="checkbox"/> Yes	Reaction Seriousness Hospitalisation <input type="text"/>	Primary Source Country EEA/Non EEA <input type="text"/>	Sponsor Study Number <input type="text"/>
Parent Child Report <input type="checkbox"/> Yes	Reaction Seriousness Disabling <input type="text"/>	Occurrence Country <input type="text"/>	Meddra Gender <input type="text"/>
Eudravigilance Pregnancy Report <input type="checkbox"/> Yes	Reaction Seriousness Life-threatening <input type="text"/>	Occurrence Country EEA/Non EEA <input type="text"/>	Administration Route <input type="text"/>
Age Range Between <input type="text"/> - <input type="text"/>	Reaction Seriousness <input type="text"/>	Occurrence Country <input type="text"/>	Pharmaceutical form <input type="text"/>
Age Group <input type="text"/>			Medical Product Batch Number <input type="text"/>
Patient Sex <input type="text"/>			Positive rechallenge <input type="text"/>

Filter on positive rechallenge is placed in section 6. 'Select any other additional criteria to filter the report results' in the EVDAS reports

- In the new ICH E2B(R3) format, the concept of “NullFlavor” is introduced
- These are specific values for data elements that can be used in different context

## **Impact on EVDAS Implementation**

NullFlavors are displayed in the EVDAS report outcomes (e.g. line listing) when applicable. However only the code (e.g. MSK, NASK) instead of the full description will be displayed in the concatenated fields of the Enhanced individual case line listing.

In the ICSR form, NullFlavors will not be displayed (value will be left blank), except for the MSK value.



Code Name Definition	Code Name Definition	Code Name Definition
NI	No Information	No information whatsoever can be inferred from this exceptional value. This is the most general exceptional value. It is also the default exceptional value.
MSK	Masked	There is information on this item available but it has not been provided by the sender due to security, privacy or other reasons. There could be an alternate mechanism for gaining access to this information. Note: using this nullFlavor can provide information considered to be a breach of confidentiality, even though no detail data is provided. Its primary purpose is for those circumstances where it is necessary to inform the receiver that the information does exist without providing any detail
UNK	Unknown.	A proper value is applicable, but not known.
NA	Not Applicable	No proper value is applicable in this context (e.g. last menstrual period for a male).
ASKU	Asked But Unknown	Information was sought but not found (e.g. patient was asked but didn't know)
NASK	Not Asked	This information has not been sought (e.g. patient was not asked)
NINF	Negative Infinity	Negative infinity of numbers
PINF	Positive Infinity	Positive infinity of numbers.



Details of the impact of the new ISO/ICH E2B(R3) ICSR standard on ADR reporting and the new business rules in EudraVigilance are provided in the following training module:

PhV-M2a Implementing ISO ICSR/ICH E2B(R3): Key changes for pharmacovigilance



## Section summary: ICH-E2B(R3) EVDAS implementation

### **In this section we have covered**

- The main fields in EVDAS that are impacted due to the implementation of the ICH-E2B(R3) standard in EudraVigilance
- How the EVDAS filters and outputs have been modified in light of the implementation of the ICH-E2B(R3) standard in EudraVigilance
- The differences in those fields with the previous data structure - ICH-E2B(R2) guideline
- Where the filters related to those data elements are located in the EVDAS reports



- Introduction to this training module
- Introduction to EVDAS
- ICH-E2B(R3) EVDAS implementation
- Standard filtering criteria, new approach**
- EudraVigilance administrative query library
- Pharmacovigilance query library
- Summary





## Section overview: Standard filtering criteria, new approach

### **In this section you will obtain an understanding of:**

- The new approach implemented in EVDAS as a standard filtering criteria
- The difference between the simplified and the advanced filtering criteria
- The different filters included in the advance filtering criteria
- Possibilities to further filter the data outputs

- The vast majority of the reports in the Pharmacovigilance query library and some of the reports in the EudraVigilance administrative query library provide the possibility to use a simplified or advanced filtering criteria
- The default option when you open a report with these possibilities is always the simplified filtering criteria
- To move from the simplified to the advance options, select to display a list of the advance filtering criteria

**Report Prompts**

---

**Select a filtering condition to display Simple or Advanced filtering criteria**

Choose objects from the list  
This prompt allows only one selection

Select to display a list of simple filtering criteria (pre-filtered for valid cases, excluding duplicates, as of today)

Select to display a list of advanced filtering criteria

Please be aware that these 2 options are not available in some EVDAS reports. Due to specific characteristics of some reports (eRMR simplified reports, MedDRA dictionary reports) these options are not applicable

## Report Prompts

### Select a filtering condition to display Simple or Advanced filtering criteria

Choose objects from the list

This prompt allows only one selection

- Select to display a list of simple filtering criteria (pre-filtered for valid cases, excluding duplicates, as of today)
- Select to display a list of advanced filtering criteria

### 1. Filter on Active Substance

Select an Active Substance (High Level) from the list to filter the report results

Active Substance (High Level)

### 2. Filter on MedDRA 'Reaction PT'

Select a MedDRA Reaction PT from the list to filter the report results

Reaction PT

## Active substance (high level) filter

- The active substance high level is based on a manually created hierarchy, grouping similar substances into “groups”
- Most frequently, these groups are formed of various salts (e.g. abacavir succinate; amlodipine maleate) of a particular moiety (abacavir; amlodipine).
- The moiety is also a value within the group.

Active substance (low level)	Active substance (high level)
ABACAVIR	ABACAVIR
ABACAVIR SUCCINATE	
ABACAVIR SULFATE	

Active substance (low level)	Active substance (high level)
AMLODIPINE	AMLODIPINE
AMLODIPINE BESILATE	
AMLODIPINE MALEATE	
AMLODIPINE MESILATE	



## High level active substance vs. low level active substance

- The active substance high level is generally used by default; the low level is used when there is an interest in e.g. a particular salt.
- Querying the substance “high level” (e.g. amlodipine) has a different meaning than querying the substance “low level”.

Active substance (low level)	Active substance (high level)
AMLODIPINE	AMLODIPINE
AMLODIPINE BESILATE	
AMLODIPINE MALEATE	
AMLODIPINE MESILATE	



## High level active substance vs. low level active substance

- “amlodipine” queried at low level will retrieve the reports where only “amlodipine” is reported, in the example only 8,300 cases will be retrieved.

Active substance low level	AMLODIPINE	AMLODIPINE BESILATE	AMLODIPINE MALEATE	AMLODIPINE MESILATE
Number of cases	8,300	10,230	3,230	1,144

- “amlodipine” queried at high level will retrieve reports for the group of substances (e.g.: reports with “amlodipine besilate”, “amlodipine maleate” etc.)

Active substance high level	AMLODIPINE
Number of cases	14,600

Run a report by selecting the active substance high level and a MedDRA PT only.

Multiple entries for substances and PTs are possible

Duplicates are excluded by default

The data displayed is as of today's day

All the cases in EV for the substance and the PT are retrieved when the substance is considered suspect/interacting

Exemption: ROR reports (only spontaneous, other and not available to sender)

Remember for any other options the user should switch to the advanced filtering criteria.



# Simplified filtering criteria – Example

**Report Prompts**

**Select a filtering condition to display Simple or Advanced filtering criteria**  
Choose objects from the list  
This prompt allows only one selection

Select to display a list of simple filtering criteria (pre-filtered for valid cases, excluding duplicates, as of today)  
 Select to display a list of advanced filtering criteria

---

**1. Filter on Active Substance**  
Select an Active Substance (High Level) from the list to filter the report results

Active Substance (High Level)

---

**2. Filter on MedDRA 'Reaction PT'**  
Select a MedDRA Reaction PT from the list to filter the report results

Reaction PT



- By switching to the advance filtering criteria from main prompt page, users will be able to filter the data using very different parameters

## Report Prompts

### Select a filtering condition to display Simple or Advanced filtering criteria

Choose objects from the list

This prompt allows only one selection

- Select to display a list of simple filtering criteria (pre-filtered for valid cases, excluding duplicates, as of today)
- Select to display a list of advanced filtering criteria

- The advanced filtering criteria contains 9 prompts
- The following slides will explain the different prompts available for the advanced filtering criteria

# Prompt 1 - Medicinal Product hierarchy



Allows the user to select specific categories of the medicinal product hierarchy

1. Select a condition from Medicinal Product hierarchy to filter the report results  
Choose objects from the list

This prompt allows only one selection

Substances or products can be selected

The highest level in the medicinal product hierarchy can be selected (i.e. "high level" options)

Option to exclude a substance/product from the data is provided

Data can be retrieved from all CAPs or Intensively monitored CAPs

Possibility to retrieve the data by ATC code

Cases can be retrieved by using a Worldwide unique case identifier or EU local number

- Medicinal Product Hierarchy
- none
  - One or more Active Substances (High Level) as selected from the EVMPD Scientific Product Database
  - One or more Active Substances as selected from the EVMPD Scientific Product Database
  - One or more recoded Medicinal Products (High Level) as selected from the EVMPD Product Index
  - One or more recoded Medicinal Products as selected from the EVMPD Product Index
  - One or more reported Medicinal Products (High Level)
  - One or more reported Medicinal Products as selected from the EVMPD Product Index
  - Import one or more Active Substances
  - Import one or more Reported Medicinal Products
  - Import one or more Active Substance (High Level)
  - Intensively Monitored CAPs
  - All CAPs
  - ATC code
  - Import one or more EU-local number
  - Import one or more WorldWide case number

Active Substance (High Level)

# Prompt 2 – Reaction terms



This prompt allows the user to select a MedDRA reaction term to filter the results

Four levels in the MedDRA hierarchy can be used (PT, HLT, HLGT, SOC)

Multiaxiality can be applied:

Five levels of SMQs can be selected

2. Select reactions from the MedDRA hierarchy to filter the report results

MedDRA Reaction Terms for the Active Ingredient(s)  none

Some PTs are related to more than one medical concept and thus to more than one SOC (Primary SOC and secondary SOC)

By applying multiaxiality the system will retrieve the cases with PTs included in the primary SOCs and also in the secondary SOC.

The same logic applies when multiaxiality is selected for HLT or HLGT

- MedDRA reaction PT
- MedDRA reaction HLT
- MedDRA reaction HLT Multiaxial
- MedDRA reaction HLGT
- MedDRA reaction HLGT Multiaxial
- MedDRA reaction SOC
- MedDRA reaction SOC Multiaxial
- MedDRA SMQ Level 1
- MedDRA SMQ Level 2
- MedDRA SMQ Level 3
- MedDRA SMQ Level 4
- MedDRA SMQ Level 5

This prompt allows the user to select the cases submitted using EV document type

Users can select the cases submitted to the post-authorisation module (EVPm), clinical trials module (EVCT) or all the cases submitted to

### 3. Select the EV Document Type

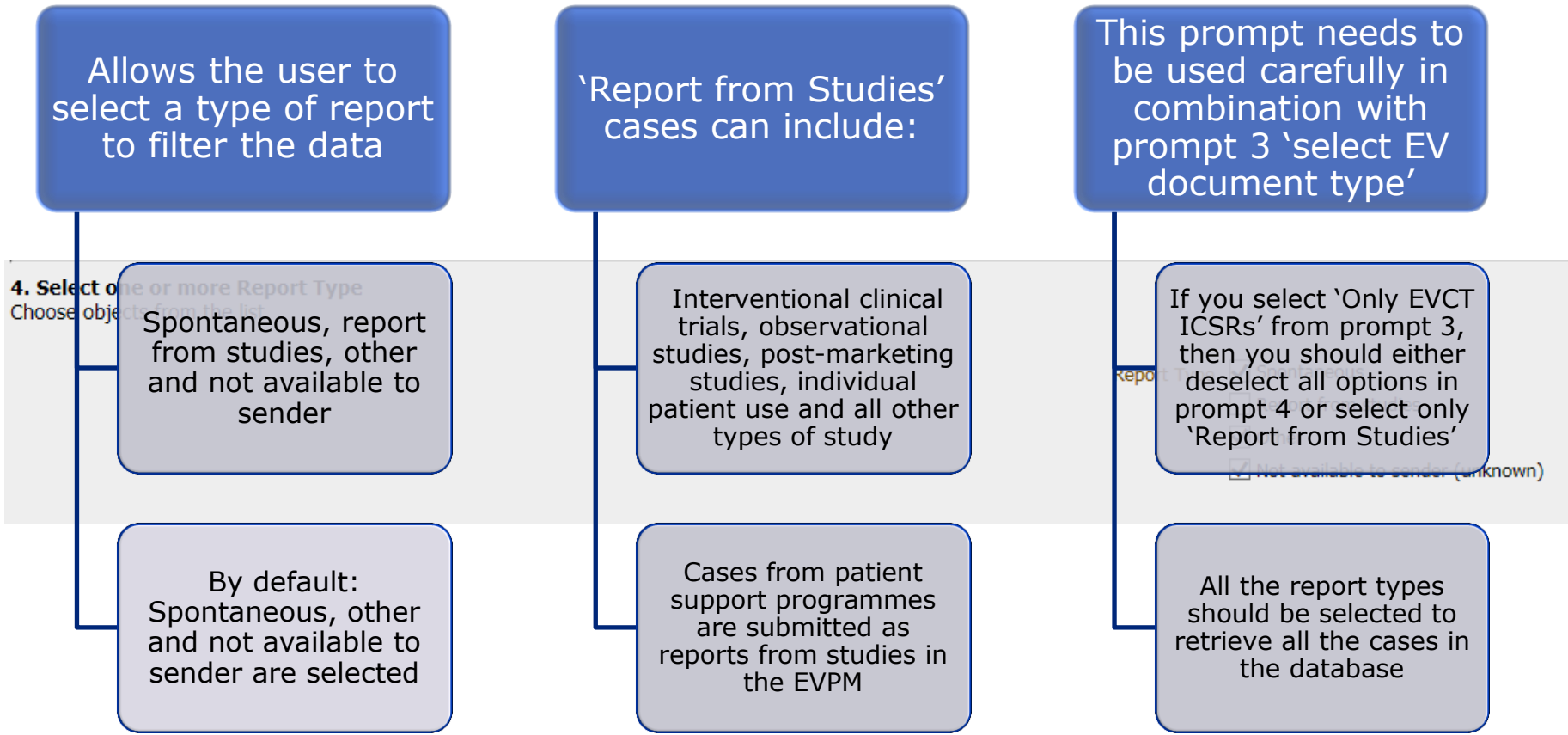
The EV Document Type represents type of ESTRI transmissions that you can find in EudraVigilance or Vigilance DWH

EV DocumentType Only EVPm ICSRs (excluding identified duplicates) ▼

- Only EVPm ICSRs (excluding identified duplicates)
- Only EVCT ICSRs (excluding identified duplicates)
- All EV ICSRs (excluding identified duplicates)

Search...

# Prompt 4 - Report type



# Prompt 5 – Medicinal product characterisation

Allows the user to filter the data by drug role characterisation. The options are:

The default options is only suspect/interacting

suspect/interacting

## 5. Select the Medicinal Product Characterisation

Choose object from the list

Medicinal Product Characterisation

suspect/interacting/  
concomitant

drug not  
administered

Only Suspect/Interacting Medicinal Products

- Only Suspect/Interacting Medicinal Products
- Suspect/Interacting/Concomitant Medicinal Products (including not specified)
- Drug not administered

Search...

# Prompt 6 - Additional criteria to filter the reports

Provides the user with a large variety of options and conditions to filter the data

The combination of more than one filter in this section is applied with an "AND" condition

The following slides describe the different filters in this prompt in more detail

## 6. Select any other additional criteria to filter the report results

Choose objects from the list

EV Message Gateway Date Between <input type="text"/> <input type="text"/>	Case Serious <input type="text"/>	Primary Source Qualification <input type="text"/>	Term Highlighted <input type="text"/>
Receive Date Between <input type="text"/> <input type="text"/>	Reaction Seriousness Death <input type="text"/>	Primary Source Country for Regulatory Purposes <input type="text"/>	Study Registration Number <input type="text"/>
Reaction Outcome <input type="text"/>	Reaction Seriousness Congenital Anomaly <input type="text"/>	Primary Source Country <input type="text"/>	Study Registration Country <input type="text"/>
Fatal <input type="checkbox"/> Yes	Reaction Seriousness Hospitalisation <input type="text"/>	Primary Source Country EEA/Non EEA <input type="text"/>	Sponsor Study Number <input type="text"/>
Parent Child Report <input type="checkbox"/> Yes	Reaction Seriousness Disabling <input type="text"/>	Occurrence Country <input type="text"/>	Meddra Gender <input type="text"/>
Eudravigilance Pregnancy Report <input type="checkbox"/> Yes	Reaction Seriousness Lifethreatening <input type="text"/>	Occurrence Country EEA/NON EEA <input type="text"/>	Administration Route <input type="text"/>
Age Range Between <input type="text"/> <input type="text"/>	Reaction Seriousness Other <input type="text"/>	Organisations sending the ICSRs <input type="text"/>	Pharmaceutical form <input type="text"/>
Age Group <input type="text"/>		<input type="checkbox"/> Select by Organisation ID	Medicinal Product Batch Number <input type="text"/>
Patient Sex <input type="text"/>		Sender Type <input type="text"/>	Positive rechallenge <input type="text"/>

## “Dates”

The “date filters” allow you to filter on a date range. The options are:

Be aware that the filter on dates contain also the time.

EV Message Gateway  
Receive Date

Date when the case was sent to EudraVigilance (EV Message Gateway Date)

Date the sender received the first information on the case (Receive date).

02/2013 00:00:00

If you want only cases from 1 February 2013 to 28 February 2013, the correct format is 01/02/2013 00:00:00. to 28/02/2013 23:59:59.

03 23:59:59



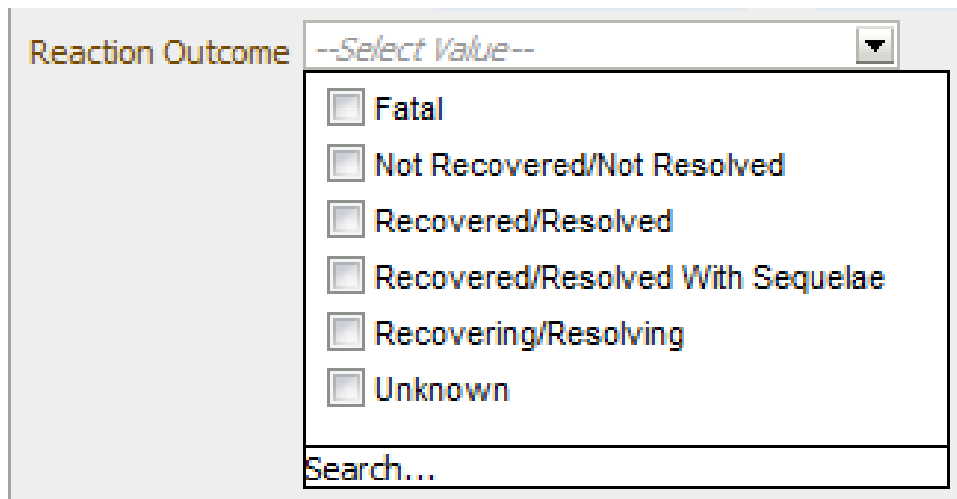


## “Reaction outcome”

Filtering on reaction outcome allows the user to select the cases according to the “outcome of the reaction”

Be aware that if you select more than one reaction outcome the system will apply an “OR” condition as we are within the same filter

Like other E2B fields, reaction outcome is not a mandatory field so caution should be exercised when querying the database using this filter



The screenshot shows a web-based filter interface for "Reaction Outcome". The label "Reaction Outcome" is on the left. The main area contains a dropdown menu with the text "--Select Value--" and a downward arrow. Below the dropdown is a list of six options, each with an unchecked checkbox:

- Fatal
- Not Recovered/Not Resolved
- Recovered/Resolved
- Recovered/Resolved With Sequelae
- Recovering/Resolving
- Unknown

At the bottom of the list is a search bar with the text "Search..."

## “fatal” filter

Using the “fatal” filter will combine the cases with any reaction outcome fatal plus the cases with seriousness criteria death.

This filter provides with all the fatal cases regardless whether the fatality has been reported in the seriousness criteria or in the reaction outcome

This filter should not be used in combination with reaction outcome or seriousness criteria (‘AND’ condition will be applied)

### 6. Select any other additional criteria to filter the report results

Choose objects from the list

EV Message Gateway Date Between  -

Receive Date Between  -

Reaction Outcome

Fatal  Yes

Parent Child Report  Yes

Eudravigilance Pregnancy Report  Yes

# Prompt 6 - Additional criteria to filter the reports

## “Parent-child and pregnancy reports”

By selecting Yes,  
the system will  
retrieve all the  
parent-child reports

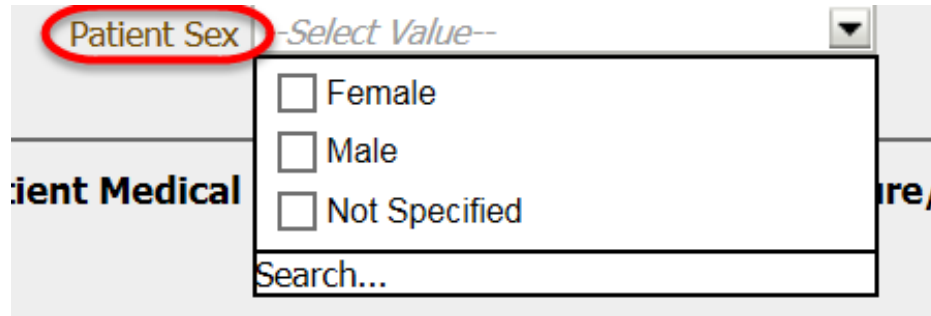
By selecting Yes  
the system will  
retrieve all the  
pregnancy reports

Fatal  Yes  
Parent Child Report  Yes  
Eudravigilance Pregnancy Report  Yes

Fatal  Yes  
Parent Child Report  Yes  
Eudravigilance Pregnancy Report  Yes

## "Patient sex"

This filter allows the user to select cases by "patient sex" (male, female or not specified)



The screenshot shows a software interface with a filter section. The filter is labeled "Patient Sex" and is currently set to "--Select Value--". Below the filter, there are three radio button options: "Female", "Male", and "Not Specified". A search bar is visible at the bottom of the filter section.

Patient Sex --Select Value--

Female

Male

Not Specified

Search...

## "Patient age"

These filters allow the user to select cases by "patient age"

For "age range" the exact age values in years should be entered

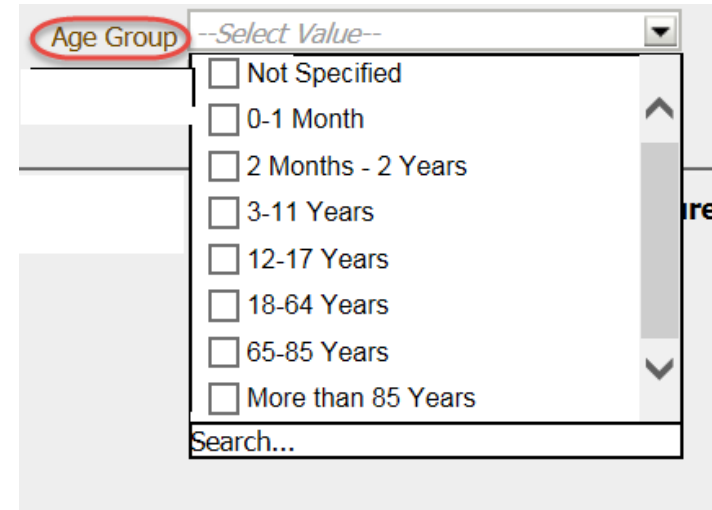
"Age group" provides a selection of predefined groups

These filters should not normally be combined as an "AND" option will be applied



Age Range Between 0 - 18

The image shows a filter interface with the text "Age Range Between" circled in red. To its right are two input fields: the first contains the number "0" and the second contains "18", both with dropdown arrows.



Age Group --Select Value--

- Not Specified
- 0-1 Month
- 2 Months - 2 Years
- 3-11 Years
- 12-17 Years
- 18-64 Years
- 65-85 Years
- More than 85 Years

Search...

The image shows a filter interface with the text "Age Group" circled in red. To its right is a dropdown menu with the text "--Select Value--". The menu is open, showing a list of age groups with checkboxes. The groups are: "Not Specified", "0-1 Month", "2 Months - 2 Years", "3-11 Years", "12-17 Years", "18-64 Years", "65-85 Years", and "More than 85 Years". Below the list is a "Search..." field.

## “Seriousness criteria”

These filters allow the user to select “serious” cases and cases with an specific seriousness criteria

If you select cases serious “Yes” the system will retrieve all the serious cases

Serious criteria were reported at case level in R2 data and at a reaction level in R3 data

The available options in each filter are:  
Yes, No and not available

Case Serious	<input type="text" value="--Select Value--"/>	▼
Reaction Seriousness Death	<input type="text" value="--Select Value--"/>	▼
Reaction Seriousness Congenital Anomaly	<input type="text" value="--Select Value--"/>	▼
Reaction Seriousness Hospitalisation	<input type="text" value="--Select Value--"/>	▼
Reaction Seriousness Disabling	<input type="text" value="--Select Value--"/>	▼
Reaction Seriousness Lifethreatening	<input type="text" value="--Select Value--"/>	▼
Reaction Seriousness Other	<input type="text" value="--Select Value--"/>	▼

## “Primary source qualification”

This filter allows the user to select the cases by primary source qualification of the reporter. The options are:

This can be used to select all the consumer reports

There are >141,000 old cases where no primary source qualification is selected.

Healthcare professional

Non-healthcare professional

Not specified

Primary Source Qualification

--Select Value--

Healthcare Professional

Non Healthcare Professional

Not Specified

Search...

--Select Value--

--Select Value--

Select by Organisation ID

Sender Type --Select Value--

If you wish to include these in any results, then you will need to select "Not specified" alongside your other selection.

# Prompt 6 - Additional criteria to filter the reports

## “Country”

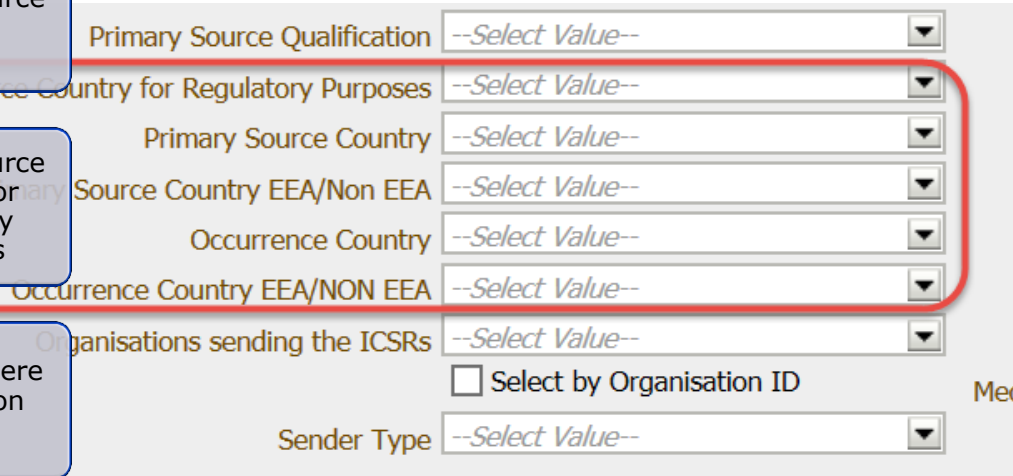
These filters allow the user to select the cases by:

Also options EEA/Non-EEA can be applied

Primary source country

Primary source country for regulatory purposes

Country where the reaction occurred



Primary Source Qualification --Select Value--

Primary Source Country for Regulatory Purposes --Select Value--

Primary Source Country --Select Value--

Primary Source Country EEA/Non EEA --Select Value--

Occurrence Country --Select Value--

Occurrence Country EEA/NON EEA --Select Value--

Organisations sending the ICSRs --Select Value--

Select by Organisation ID

Sender Type --Select Value--

Med



## “Organisation and sender type”

These filters allow the users to retrieve cases submitted by a particular sender organisation or sender type (NCAs, MAHs/Sponsor)

Organisations can be searched by ID rather than the name if desired

Organisations sending the ICSRs

--Select Value--

Select by Organisation ID

Sender Type

--Select Value--

MAH/Sponsor

NCAs

Search...

## “Highlighted terms”

This filter allows the user to restrict the search to the term(s) chosen in prompt 2 and which were highlighted by the reporter.

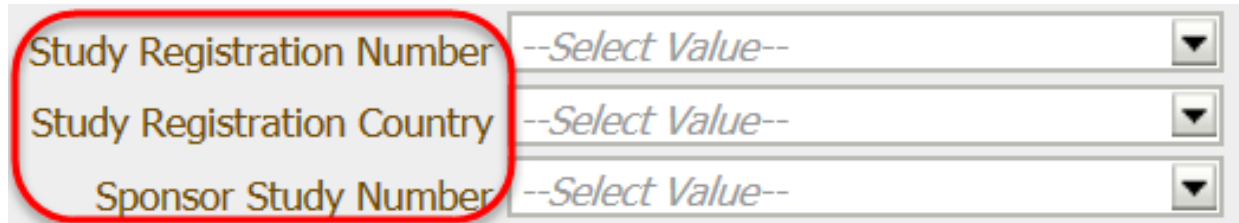
As this field is not mandatory and is not frequently populated, it is not recommended for systematic use; if you do intend to filter on this, always ensure that you include 'not specified' otherwise you miss the majority of cases where no term was highlighted

<input type="checkbox"/> No, not highlighted by the reporter, NOT serious
<input type="checkbox"/> No, not highlighted by the reporter, SERIOUS
<input type="checkbox"/> Not Specified
<input type="checkbox"/> Yes, highlighted by the reporter, NOT serious
<input type="checkbox"/> Yes, highlighted by the reporter, SERIOUS
Search...

## “Study details”

These filters allow the user to select the data based on study registration number, study registration country and sponsor study number

Please remember that in the EEA, the study registration number is the EudraCT number

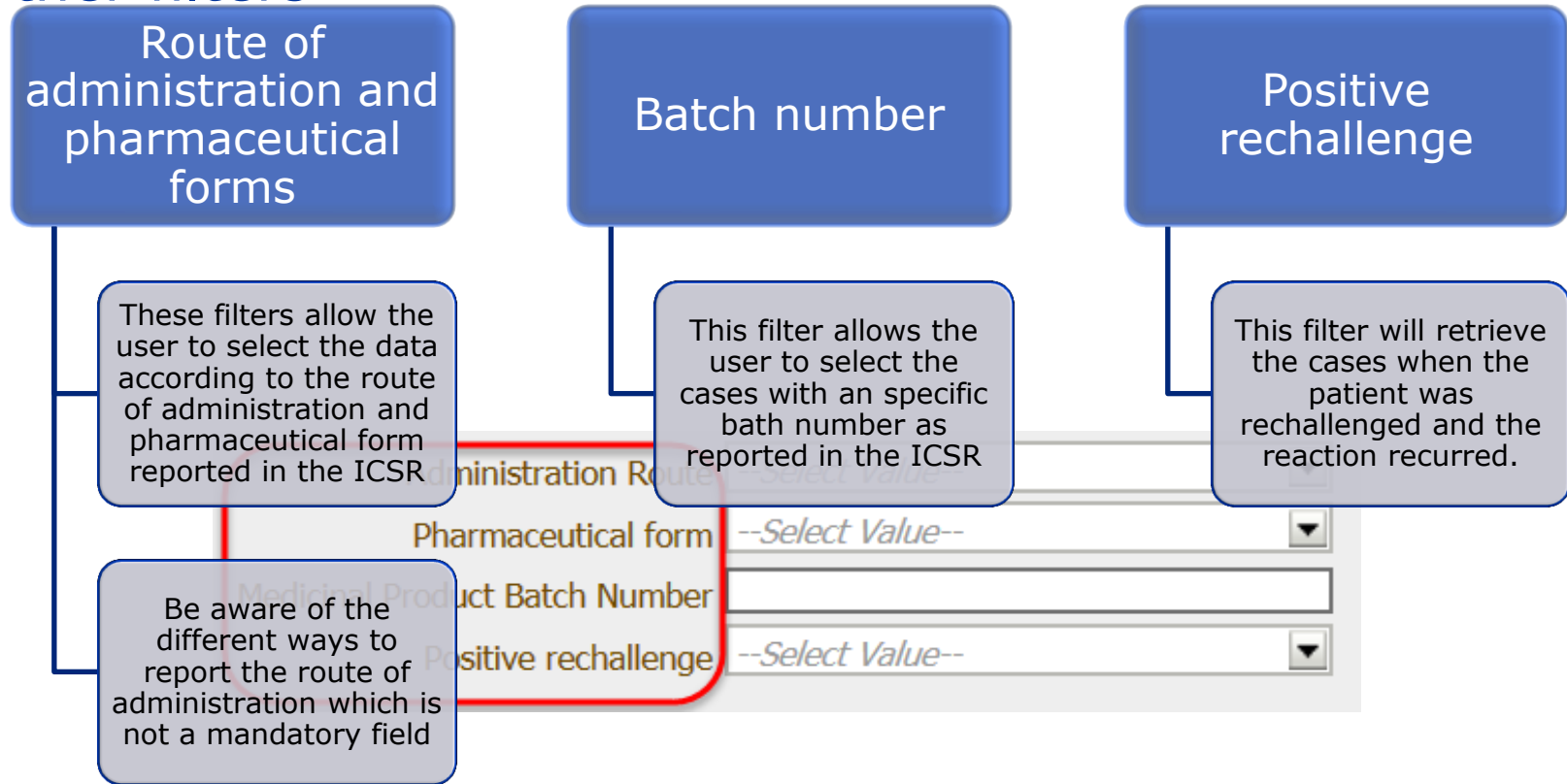


Study Registration Number --Select Value--

Study Registration Country --Select Value--

Sponsor Study Number --Select Value--

## "Other filters"



# Prompt 7 – Patient medical history

Users will be able to filter the data based on the medical history reported in the ICSR when reported as structured data

MedDRA hierarchy and multiaxiality can be applied

When selecting a term, an operator will be displayed with different options

## 7. Select the Patient Medical History (disease/surgical procedure/etc.) from the MedDRA hierarchy to filter the report results

- MedDRA Medical History Terms
- none
  - MedDRA Medical History PT
  - MedDRA Medical History HLT
  - MedDRA Medical History HLT Multiaxial
  - MedDRA Medical History HLT
  - MedDRA Medical History HLT Multiaxial
  - MedDRA Medical History SOC
  - MedDRA Medical History SOC Multiaxial
  - MedDRA Medical History SMQ Level 1
  - MedDRA Medical History SMQ Level 2
  - MedDRA Medical History SMQ Level 3
  - MedDRA Medical History SMQ Level 4
  - MedDRA Medical History SMQ Level 5

In this context only the options 'is equal to' and 'is not equal to' should be applied

Medical History PT is equal to / is in

--Select Value--

The option 'is no equal to' can be used to retrieve the cases with no medical history for an specific term

# Prompt 8 – Indication for use



This prompt allows the user to select the data according to the indication for use of the medicinal products

The indication can be selected as reported in the ICSR or as per the Art 57 database (only for recoded ICSRS)

MedDRA hierarchy and multi-axiality can be applied

If the Art 57 indication option is selected the system will give you the options of indications included in the Art 57 database

## 8. Select the Indication (as reported in the ICSR or as authorised in article 57 database) from the MedDRA hierarchy to filter the report results

MedDRA Reported Indication Terms  none

- MedDRA reported Indication PT
- MedDRA reported Indication HLT
- MedDRA reported Indication HLT Multi-axial
- MedDRA reported Indication HLTG
- MedDRA reported Indication HLTG Multi-axial
- MedDRA reported Indication HLTG Multi-axial
- MedDRA reported Indication HLTG Multi-axial
- MedDRA reported Indication HLTG Multi-axial
- MedDRA reported Indication HLTG Multi-axial
- MedDRA reported Indication HLTG Multi-axial
- MedDRA reported Indication SMQ Level 4
- MedDRA reported Indication SMQ Level 5

AND  
 OR

MedDRA Art57 Terms  none

- MedDRA article 57 authorised indication PT
- MedDRA article 57 authorised indication HLT
- MedDRA article 57 authorised indication HLT Multi-axial
- MedDRA article 57 authorised indication HLTG
- MedDRA article 57 authorised indication HLTG Multi-axial
- MedDRA article 57 authorised indication HLTG Multi-axial
- MedDRA article 57 authorised indication SMQ Level 3
- MedDRA article 57 authorised indication SMQ Level 4
- MedDRA article 57 authorised indication SMQ Level 5

The Art 57 option can be used as an alternative for the selection of the substances/products

For example if you want to select the cases that occurred in patients treated with antidiabetic medication:

In that case do not select any substance in prompt 1 but select the relevant term in Art 57 database (e.g. HLT "diabetes Mellitus")

The system will retrieve all the cases where any of the suspects/interacting drugs is authorised for diabetes mellitus in Art 57



This prompt allows the user to retrieve the information in EV at a particular moment in time by selecting an specific "historic date"

Note the EV is updated overnight, so the data retrieved on a given date will contain the cases received up to the date before

The default value of the prompt is today's day

Further changes in the database beyond the historic date will be omitted (e.g. case nullifications)

For instance to retrieve all the cases received up to 15 Nov 2015, we will need to put in the historic date 16 Nov 2015



To calculate snapshot of the data > 11/04/2016 23:59:59



## Further filtering the data



One of the novelties of the new EVDAS catalogue is the possibility of further filter the data after the report has run and you have the results in the EVDAS interface

- Indication
- Medical history
- Route of administration
- Dose
- Pharmaceutical form
- Positive rechallenge



These extra filters are placed at the top of the reports results

Remember these filters do not have to be applied necessarily

The same filters can be also introduced in the previous prompt pages

## c. Medicinal Product Reaction Report (# Individual Cases or Adverse Reactions)

### View filter details

No ▾

<b>MedDRA reported indication</b>	<b>MedDRA Article 57 authorised indication</b>	<b>MedDRA Patient Medical History</b>	<b>Route of Administration</b>	<b>Dose</b>	<b>Pharmaceutical form</b>	<b>Positive Rechallenge</b>							
All Indications ▾	All Product Indications ▾	All Patient Medical History ▾	All ROA ▾	All Dose ▾	All Form ▾	All Positive Rechallenge ▾							
All Indications	All Indications ▾	All Product Indications	All Product Indications ▾	All Patient Medical History	All Patient Medical History ▾	All ROA	All ROA ▾	All Form	All Form ▾	All Dose	All Dose ▾	All Positive Rechallenge	All Positive Rec

All Reactions All  
All Reactions 10,693

[Return](#) - [Analyze](#) - [Refresh](#) - [Print](#) - [Export](#) - [Add to Briefing Book](#) - [Create Bookmark Link](#)



## Further filtering the data – how does it work?

- In order to apply the extra filtering criteria, you need to activate first the filter you want to apply and let the report to run.
- Then you will be ready to filter the data according to the previous selection criteria.

See example in the following slides:

- The system has retrieved 7332 cases with bevacizumab in the gastrointestinal SOC
- To further filter this number based on the indication, select *MedDRA reported indication PT*

MedDRA reported indication  MedDRA Article 57 authorised indication

All Indications  All Product Indications

All Reactions	All
All Reactions	7,332

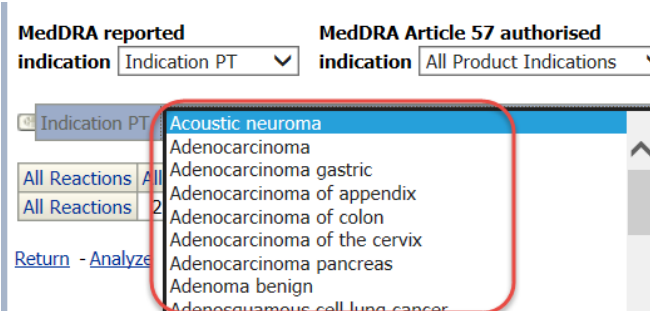
[Return](#) - [Analyze](#) - [Refresh](#) - [Print](#) - [Export](#) - [Add to Briefing Book](#) - [Create Boo](#)

MedDRA reported indication  MedDRA Article 57 authorised indication

All Indications  All Product Indications

All Reactions	All
All Reactions	7,332

- The system will run and display a list of the indications reported in those 7,332 cases for bevacizumab and gastrointestinal SOC
- Then you can select the specific indication PT to filter the number of cases
  - In the example, 22 of the 7,332 cases contain the indication PT 'gastrointestinal carcinoma'



MedDRA reported indication: Indication PT

MedDRA Article 57 authorised indication: All Product Indications

Indication PT: Acoustic neuroma

Adenocarcinoma

Adenocarcinoma gastric

Adenocarcinoma of appendix

Adenocarcinoma of colon

Adenocarcinoma of the cervix

Adenocarcinoma pancreas

Adenoma benign

Adenosquamous cell lung cancer



View filter details

No

MedDRA reported indication: Indication PT

MedDRA Article 57 authorised indication: All Product Indications

Indication PT: Gastrointestinal carcinoma

All Reactions: All

All Reactions: 22

[Return](#) - [Back](#) - [Analyze](#) - [Refresh](#) - [Print](#) - [Export](#) - [Add to Briefing Book](#) - [Creat](#)



## Section summary: Standard filtering criteria

### **In this section we have covered:**

- The new approach implemented in EVDAS as standard filtering criteria
- The difference between the simplified and the advanced filtering criteria
- The different filters included in the advanced filtering criteria
- Possibilities to further filter the data outputs



- Introduction to this training module
- Introduction to EVDAS
- ICH-E2B(R3) EVDAS implementation
- Standard filtering criteria, new approach
- **EudraVigilance administrative query library**
- Pharmacovigilance query library
- Summary



# Section overview: EudraVigilance Administrative query library

## **In this section you will obtain an understanding of:**

- The different categories of reports included in the EudraVigilance administrative query library
- Principles and instructions for running reports within the Library
- Output examples of the main reports in the Library

- This library contains reports designated to support analysis of compliance with the reporting rules and quality of the data transmitted by MAHs to EV.
- The majority of the reports retrieve information on all ICSRs transmitted, which will include all versions of the cases.
- The library is subdivided in 4 folders.

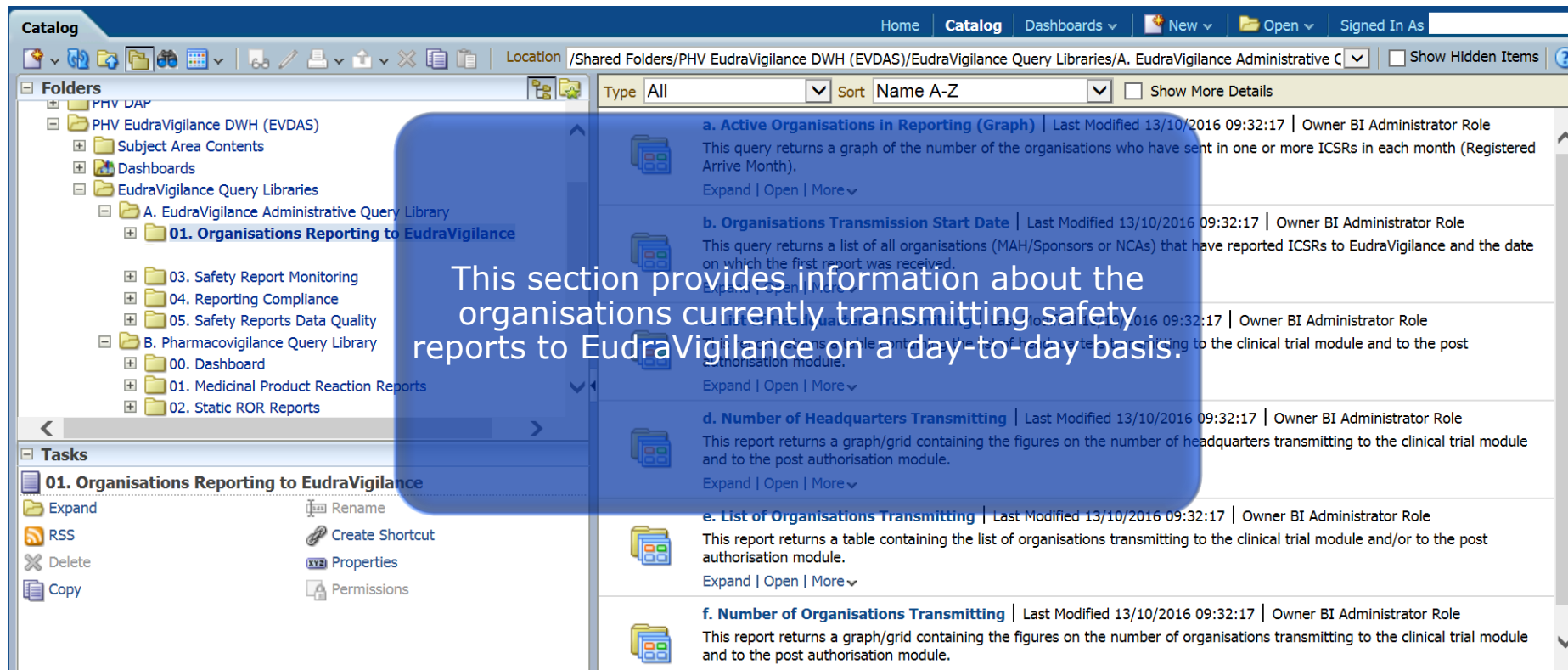






## Filter options

- The prompts and filter options within the reports included in this library vary depending on the report.
- Some reports provide the standard simplified and advanced filtering options.
- Other reports provided a simplified filter options driven by the type of output are intended to retrieve.



The screenshot shows a file catalog interface with a left sidebar for folders and tasks, and a main pane for query descriptions. A blue callout box highlights the '01. Organisations Reporting to EudraVigilance' folder and its corresponding query descriptions.

**Folders**

- PHV DAP
  - PHV EudraVigilance DWH (EVDAS)
    - Subject Area Contents
    - Dashboards
    - EudraVigilance Query Libraries
      - A. EudraVigilance Administrative Query Library
        - 01. Organisations Reporting to EudraVigilance**
        - 03. Safety Report Monitoring
        - 04. Reporting Compliance
        - 05. Safety Reports Data Quality
      - B. Pharmacovigilance Query Library
        - 00. Dashboard
        - 01. Medicinal Product Reaction Reports
        - 02. Static ROR Reports

**Tasks**

- 01. Organisations Reporting to EudraVigilance**
  - Expand
  - RSS
  - Delete
  - Copy
  - Rename
  - Create Shortcut
  - Properties
  - Permissions

**Query Descriptions:**

- a. Active Organisations in Reporting (Graph)** | Last Modified 13/10/2016 09:32:17 | Owner BI Administrator Role  
This query returns a graph of the number of the organisations who have sent in one or more ICSRs in each month (Registered Arrive Month).  
Expand | Open | More ▾
- b. Organisations Transmission Start Date** | Last Modified 13/10/2016 09:32:17 | Owner BI Administrator Role  
This query returns a list of all organisations (MAH/Sponsors or NCAs) that have reported ICSRs to EudraVigilance and the date on which the first report was received.  
Expand | Open | More ▾
- c. Number of Organisations Transmitting** | Last Modified 13/10/2016 09:32:17 | Owner BI Administrator Role  
This report returns a table containing the number of organisations transmitting to the clinical trial module and to the post authorisation module.  
Expand | Open | More ▾
- d. Number of Headquarters Transmitting** | Last Modified 13/10/2016 09:32:17 | Owner BI Administrator Role  
This report returns a graph/grid containing the figures on the number of headquarters transmitting to the clinical trial module and to the post authorisation module.  
Expand | Open | More ▾
- e. List of Organisations Transmitting** | Last Modified 13/10/2016 09:32:17 | Owner BI Administrator Role  
This report returns a table containing the list of organisations transmitting to the clinical trial module and/or to the post authorisation module.  
Expand | Open | More ▾
- f. Number of Organisations Transmitting** | Last Modified 13/10/2016 09:32:17 | Owner BI Administrator Role  
This report returns a graph/grid containing the figures on the number of organisations transmitting to the clinical trial module and to the post authorisation module.

# A01c. List of Headquarters transmitting

This report returns a table containing the list of headquarters transmitting to the EVCT and EVPM

c. List of Headquarters Transmitting

The report returns as a table with various additional filtering options

Organisations registered in EV are either registered as headquarters or as affiliates grouped under a headquarters.

View filter details

No

EV DocumentType **EVPM ICSR(s)**

Primary Source Qualification **Healthcare Professional (Physician, Other Health Professional)**

Organisation Type	Headquarter	# Headquarters
MAH/Sponsor	BELUPO HRVATSKA	1
	JGL	1
	MaxPharma d.o.o.	1
	PharmaS d.o.o.	1
	mibe GmbH Arzneimittel	1
<b>MAH/Sponsor Total</b>		<b>5</b>
NCA's	Agency for Medicinal Products and Medical Devices	1
<b>NCA's Total</b>		<b>1</b>
<b>Grand Total</b>		<b>6</b>

Serious **Yes**

Continent list

EEA country list **Croatia**

Non EEA country list

If multiple affiliates under the same headquarters have each transmitted ICSRs to EV they will only be counted once in this query

# A01e. List of organisations transmitting

## e. List of Organisations Transmitting

View filter details

No ▾

EV DocumentType EVPM ICSR(s) ▾

Organisation Type	Organisation	# Organisations
MAH/Sponsor	3M DEUTSCHLAND GMBH	1
	3M HEALTH CARE	1
	A GENERIC PHARMACEUTICAL AB	1
	A. PFLUEGER GMBH & CO. KG	1
	A.MENARINI INDUSTRIE FARMACEUTICHE RIUNITE S.R.L.	1
	A/S DEN NORSKE ETERFABRIKK	1
	AASTROM BIOSCIENCES DK APS	1
	AB CERNELLE	1
	ABBOTT LABORATORIES	1
	ABBOTT PRODUCTS GMBH	1
	ABBVIE PHARMACOVIGILANCE	1
	ABC FARMACEUTICI SPA	1
	ACCORD HEALTHCARE LIMITED	1
	ACHAOPEN	1
	ACINO AG	1
	ACORUS THERAPEUTICS LTD	1
	ACS DOBFAR GENERICS S.A.	1
	ACTAVIS GROUP HF	1

Rows 1 - 25

list of organisations (whether headquarters, affiliates or 3<sup>rd</sup> party service providers) transmitting to EV

grouping organisations by whether they are registered under an MAH/Sponsor profile or an NCA profile

The column "Organisations" will be populated with 1 for each row except for the subtotals (by organisation type) and the total.

Once the report has been run and the results returned, you can filter by EV Document Type

# A03. Safety Report Monitoring



The screenshot displays the Business Intelligence Catalog interface. The top navigation bar includes the EMA logo, the text 'Business Intelligence', a search bar, and buttons for 'Advanced', 'Help', and 'Sign Out'. Below the navigation bar, the 'Catalog' section shows a file explorer view of the folder structure. The 'Folders' pane on the left shows a hierarchy: PHV DAP > PHV EudraVigilance DWH (EVDAS) > EudraVigilance Query Libraries > A. EudraVigilance Administrative Query Library > 03. Safety Report Monitoring. The 'Tasks' pane at the bottom left shows actions for '03. Safety Report Monitoring', including Expand, RSS, Delete, Copy, Rename, Create Shortcut, Properties, and Permissions. The main pane displays a list of reports with columns for Name, Last Modified, and Owner. A blue callout box is overlaid on the report list, containing the text: 'This group of reports is designed to provide information on the overall number of ADR reports in EV, grouped and subdivided in various ways.'

**03. Safety Report Monitoring**

- Expand
- RSS
- Delete
- Copy
- Rename
- Create Shortcut
- Properties
- Permissions

Name	Last Modified	Owner
a. Number of ICSRs received over time	13/10/2016 09:32:18	Owner BI Administrator Role
b. Number of ICSRs/Individual Cases by EEA and Non EEA	13/10/2016 09:32:18	Owner BI Administrator Role
c. Number of ICSRs/Individual Cases by Organisation	13/10/2016 09:32:18	Owner BI Administrator Role
d. Transmissions of ICSRs Containing Blinded Products	13/10/2016 09:32:18	Owner BI Administrator Role
e. Number of cases over time	13/10/2016 09:32:18	Owner BI Administrator Role
f. Number of amendments and nullification reports in EV	13/10/2016 09:32:18	Owner BI Administrator Role

# A03a. Number of ICSRs Received Over Time



a. Number of ICSRs received over time

View filter details

No

Select View: Graph

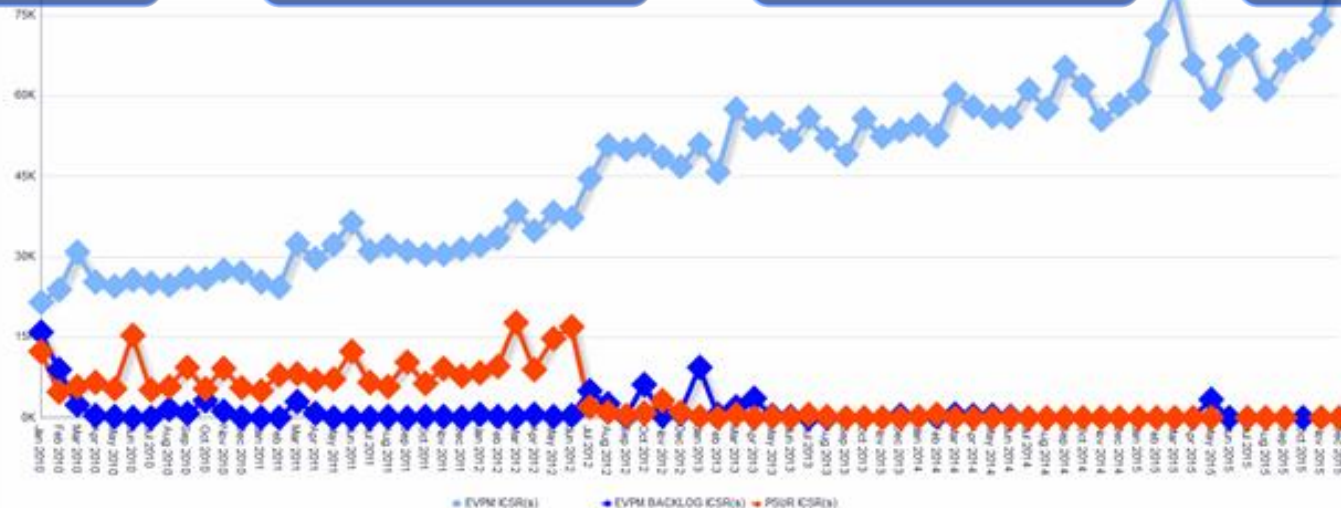
Organisation Type: Total

This report reflects the number of ICSRs received in EudraVigilance over time

The standard simplified and advanced filtering options are available for this report

Once the report is run, you can view the data as a table by selecting "Grid" from the "Select View" option

It is also possible to display the results by organisation type (NCA, MAH/Sponsor, and Total)





c. Number of ICSRs/Number of Cases Grouped by Organisation

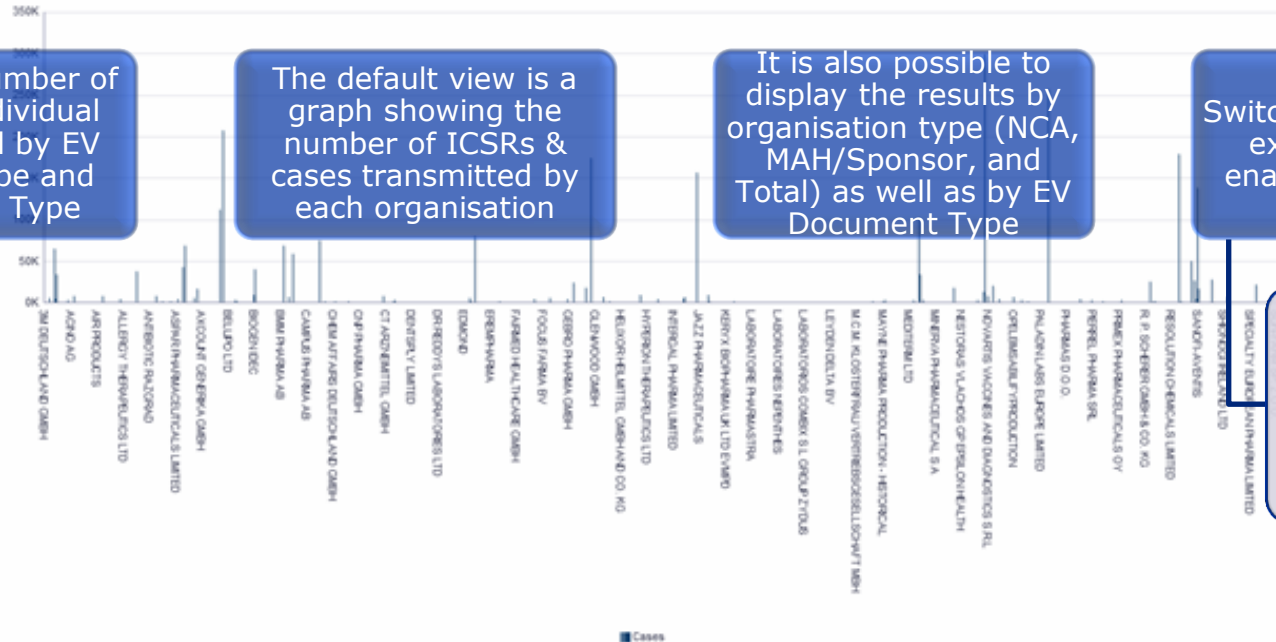
View filter details

No

Select View **Graph**

Organisation Type **MAH/Sponsor**

EV Document Type **EVPM ICSR(s)**



Displays the number of ICSRs and Individual cases grouped by EV Document Type and Organisation Type

The default view is a graph showing the number of ICSRs & cases transmitted by each organisation

It is also possible to display the results by organisation type (NCA, MAH/Sponsor, and Total) as well as by EV Document Type

Switching view to grid & exporting to Excel enables data analysis

users could compare the ratio of ICSRs to cases for the organisation of interest compared to the average or to other organisations of similar size

# A04. Reporting compliance



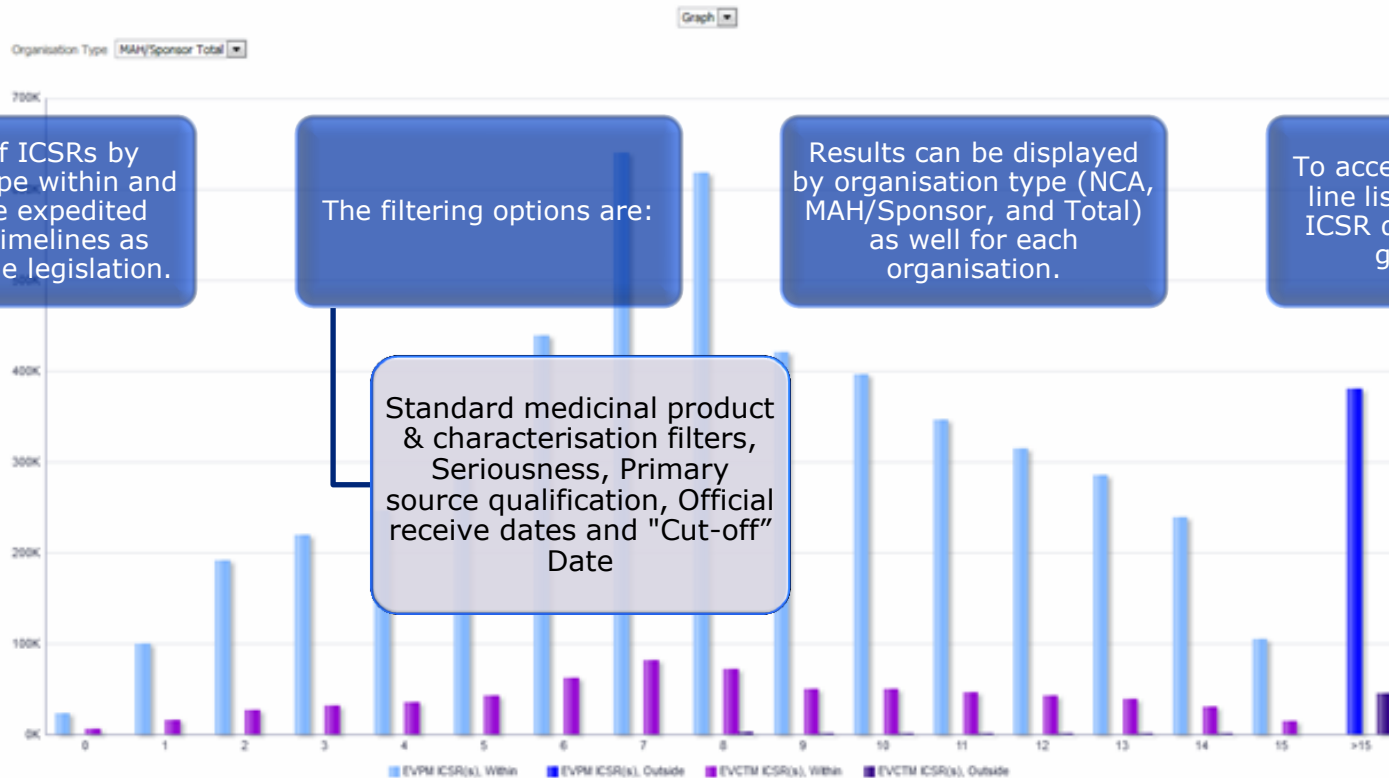
The screenshot shows a file catalog interface with the following elements:

- Navigation:** Home, Catalog, Dashboards, New, Open, Signed In As.
- Location:** /Shared Folders/PHV EudraVigilance DWH (EVDAS)/EudraVigilance Query Libraries/A. EudraVigilance Administrative C
- Filters:** Type: All, Sort: Name A-Z, Show More Details.
- Folder List:**
  - PHV DAP
    - PHV EudraVigilance DWH (EVDAS)
      - Subject Area Contents
      - Dashboards
      - EudraVigilance Query Libraries
        - A. EudraVigilance Administrative Query Library
          - 01. Organisations Reporting to EudraVigilance
          - 03. Safety Report Monitoring
          - 04. Reporting Compliance**
          - 05. Safety Reports Data Quality
        - B. Pharmacovigilance Query Library
          - 00. Dashboard
          - 01. Medicinal Product Reaction Reports
          - 02. Static ROR Reports

- Task List:** Expand, RSS, Delete, Copy, Rename, Create Shortcut, Properties, Permissions.
- Item Details:**
- h. ICSRs Transmissions with Errors without correct follow up** | Last Modified 13/10/2016 09:32:18 | Owner BI Administrator Role
  - Such ICSR should be retrieved if for a same sender ID and same Case number id, the correctness of the ICSR is 'report with error for the latest ICSR received (max message receive date).
  - Expand | Open | More
- Non - Serious ICSRs** | Last Modified 13/10/2016 09:32:18 | Owner BI Administrator Role
  - Expand | More
- Serious ICSRs** | Last Modified 13/10/2016 09:32:18 | Owner BI Administrator Role
  - Expand | More



a. Number of ICSRs within and outside the expedited reporting timeline



Number of ICSRs by document type within and outside the expedited reporting timelines as defined in the legislation.

The filtering options are:

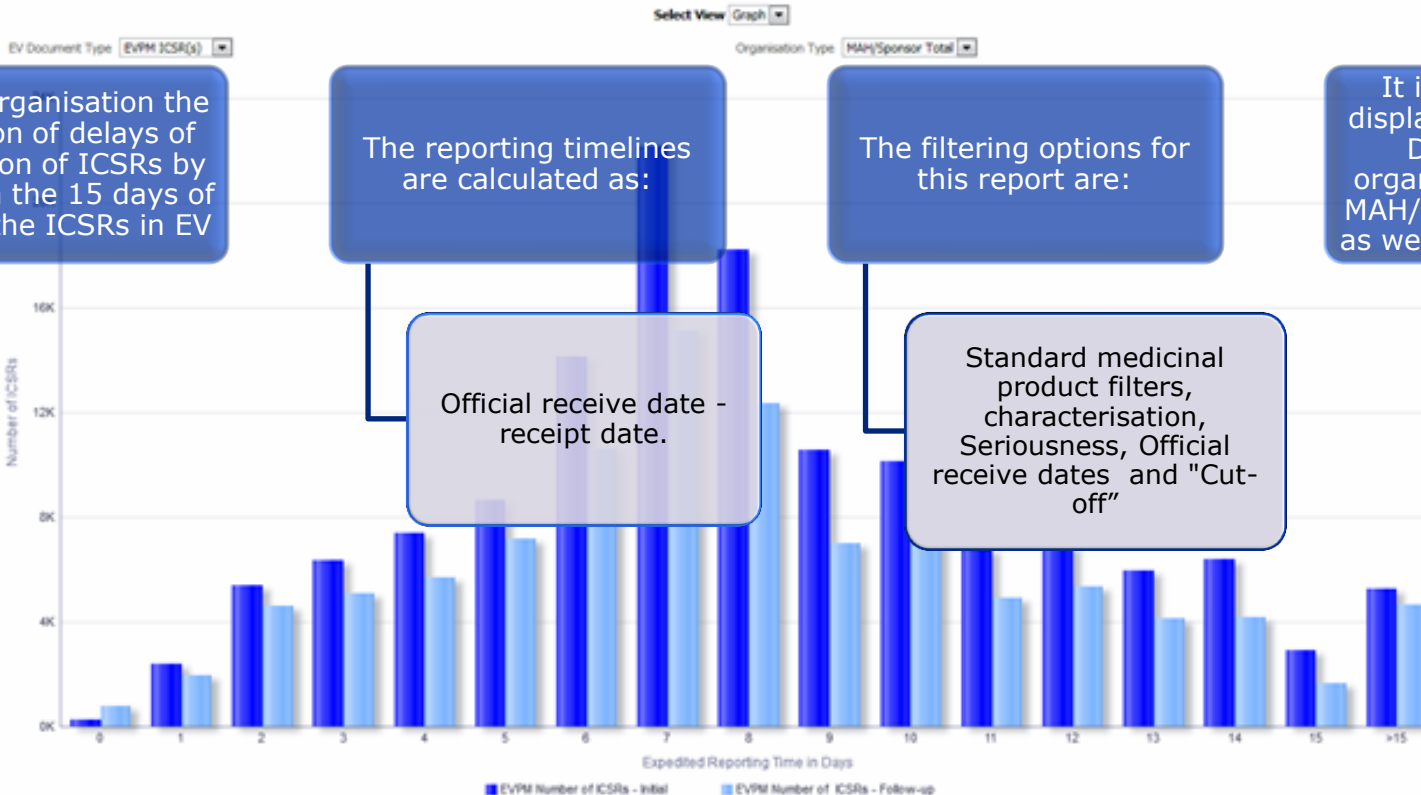
Standard medicinal product & characterisation filters, Seriousness, Primary source qualification, Official receive dates and "Cut-off" Date

Results can be displayed by organisation type (NCA, MAH/Sponsor, and Total) as well for each organisation.

To access directly a case line listing and see the ICSR details, click on a graph value.



c. Expedited Reporting Time (in Days) of ICSRs Transmitted Electronically to Eudravigilance



For each organisation the distribution of delays of transmission of ICSRs by time within the 15 days of receipt of the ICSRs in EV

The reporting timelines are calculated as:

Official receive date - receipt date.

The filtering options for this report are:

Standard medicinal product filters, characterisation, Seriousness, Official receive dates and "Cut-off"

It is also possible to display the results by EV Document Type, organisation type (NCA, MAH/Sponsor, and Total) as well as by organisation

e. Expedited Reporting Time (in Days) of ICSRs Transmitted Electronically – Non compliant Line listing

View filter details  
No

Organisation Type MAH/Sponsor Organisation MAHTEST01 GW EV Document Type EVPM ICSR(s)

Expedited Reporting Time (in Days)	EV World Wide Unique Identifier	Initial
1000006214	US-APHARMA-INC504	1
1000006232	US-APHARMA-INC584	1
1000006236	US-APHARMA-INC514	1
1000006251	US-APHARMA-INC534	1
1000006257	US-APHARMA-INC564	1
1000006259	US-APHARMA-INC524	1
1000006261	US-APHARMA-INC554	1
1000006263	US-APHARMA-INC574	1
1000006265	US-APHARMA-INC544	1
436	US-APHARMA-INC453	1
1000006368	US-APHARMA-INC493	1
437	US-APHARMA-INC437	1
1000006381	US-APHARMA-INC477	1
438	1000006322 US-APHARMA-INC421	1
	1000006354 US-APHARMA-INC461	1
	1000006409 US-APHARMA-INC501	1
439	1000006334 US-APHARMA-INC445	1
	1000006383 US-APHARMA-INC485	1
440	1000006337 US-APHARMA-INC469	1
	1000006347 US-APHARMA-INC429	1

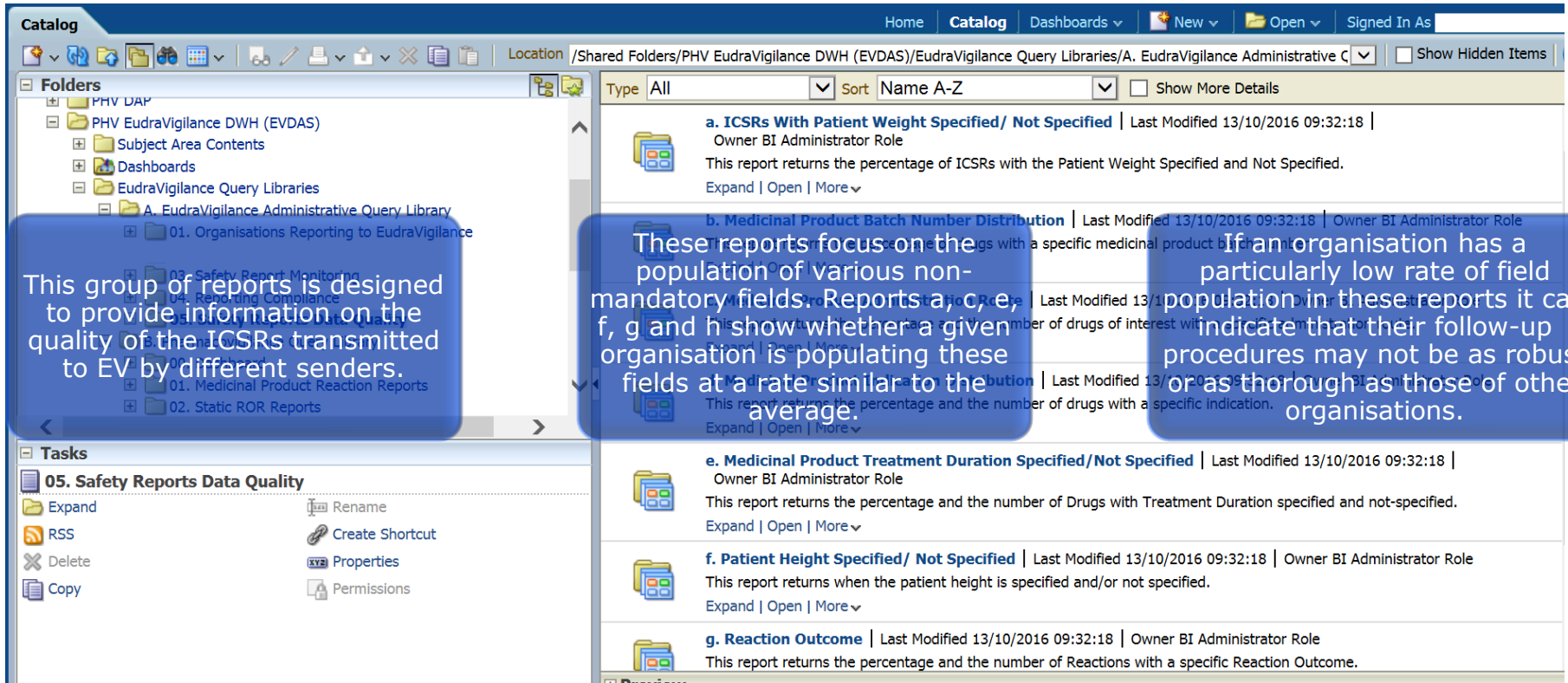
For each organisation a line listing by expedited reporting timelines for ICSRs non-compliant with the expedited reporting timelines

The filtering options for this report are:

The default view is a table grouped by the number of days taken to report the ICSRs

The last column "Number of ICSRs" provides a count of the total number of late cases that meet the filtering criteria

Seriousness, Official receive dates and Cut-off Date



**05. Safety Reports Data Quality**

- Expand
- RSS
- Delete
- Copy
- Rename
- Create Shortcut
- Properties
- Permissions

**a. ICSRs With Patient Weight Specified/ Not Specified** | Last Modified 13/10/2016 09:32:18 | Owner BI Administrator Role  
This report returns the percentage of ICSRs with the Patient Weight Specified and Not Specified.  
Expand | Open | More ▾

**b. Medicinal Product Batch Number Distribution** | Last Modified 13/10/2016 09:32:18 | Owner BI Administrator Role  
This report returns the percentage of drugs with a specific medicinal product batch number and the number of drugs of interest with a specific medicinal product batch number.  
Expand | Open | More ▾

**c. Reporting Compliance** | Last Modified 13/10/2016 09:32:18 | Owner BI Administrator Role  
This report returns the percentage of reports that are compliant with the reporting requirements.  
Expand | Open | More ▾

**d. Reporting Compliance** | Last Modified 13/10/2016 09:32:18 | Owner BI Administrator Role  
This report returns the percentage of reports that are compliant with the reporting requirements.  
Expand | Open | More ▾

**e. Medicinal Product Treatment Duration Specified/Not Specified** | Last Modified 13/10/2016 09:32:18 | Owner BI Administrator Role  
This report returns the percentage and the number of Drugs with Treatment Duration specified and not-specified.  
Expand | Open | More ▾

**f. Patient Height Specified/ Not Specified** | Last Modified 13/10/2016 09:32:18 | Owner BI Administrator Role  
This report returns when the patient height is specified and/or not specified.  
Expand | Open | More ▾

**g. Reaction Outcome** | Last Modified 13/10/2016 09:32:18 | Owner BI Administrator Role  
This report returns the percentage and the number of Reactions with a specific Reaction Outcome.  
Expand | Open | More ▾

This group of reports is designed to provide information on the quality of the ICSRs transmitted to EV by different senders.

These reports focus on the population of various non-mandatory fields. Reports a, c, e, f, g and h show whether a given organisation is populating these fields at a rate similar to the average.

If an organisation has a particularly low rate of field population in these reports it can indicate that their follow-up procedures may not be as robust or as thorough as those of other organisations.

## d. Medicinal Product Indication Distribution

View filter details

No ▾

Indication SOC	# Drugs	% Drugs
Surgical and medical procedures	28,789	27.2%
Musculoskeletal and connective tissue disorders	25,703	24.2%
Neoplasms benign, malignant and unspecified (incl cysts and polyps)	14,805	14.0%
Immune system disorders	5,890	5.6%
Respiratory, thoracic and mediastinal disorders	5,552	5.2%
Gastrointestinal disorders	4,492	4.2%
Renal and urinary disorders	3,879	3.7%
Skin and subcutaneous tissue disorders	3,805	3.4%
Blood and lymphatic system disorders	2,431	2.3%
Infections	2,061	1.9%
Vascular disorders	1,042	1.9%
Nervous system disorders	1,882	1.8%
General disorders and administration site conditions	1,506	1.4%
Eye disorders	963	0.9%
Hepatobiliary disorders	645	0.6%
Injury, poisoning and procedural complications	473	0.4%
Endocrine disorders	345	0.3%
Metabolism and nutrition disorders	282	0.3%
Investigations	188	0.2%
Congenital, familial and genetic disorders	181	0.2%
Cardiac disorders	154	0.1%
Ear and labyrinth disorders	119	0.1%
Psychiatric disorders	31	0.0%
Reproductive system and breast disorders	14	0.0%
Pregnancy, puerperium and perinatal conditions	4	0.0%
<b>Total</b>	<b>106,036</b>	<b>100.0%</b>

This report returns the percentage and the number of drugs with a specific indication

The standard simplified and advanced filtering options are available for this report

Click an Indication SOC to view it at a lower-level. Clicking once displays HLG for that SOC & then clicking the HLG displays HLT

## h. Birthdate/Onset Age/Reaction Start Date

## h. Birthdate/Onset Age/Reaction Start Date --> Patient Birthdate

### View filter details

No

Continent list

Non EEA country list

EEA country list

This report returns the number of ICSRs with birthdate and/or age specified or not

The standard simplified and advanced filtering options are available for this report

The default view is a table

Clicking on the blue "Specified" link takes you to a listing of patient dates of birth

Birthdate (Specified/not Specified)	#ICSRs	Age Specified	Not Specified	Total
Specified			45,573	45,573
Not Specified		155,495	68,274	223,769
<b>Total</b>		<b>201,068</b>	<b>68,274</b>	<b>269,342</b>

Patient Birthdate	Patient Birthdate	#ICSRs	Age (Specified/not Specified)	Specified	Total
15/02/1913	15-FEB-1913	#ICSRs		1	1
05/12/1915	05-DEC-1915	#ICSRs		1	1
25/02/1916	25-FEB-1916	#ICSRs		1	1
22/03/1916	22-MAR-1916	#ICSRs		1	1
21/05/1916	21-MAY-1916	#ICSRs		1	1
11/10/1916	11-OCT-1916	#ICSRs		1	1
11/11/1916	22-NOV-1916	#ICSRs		1	1
02/04/1917	02-APR-1917	#ICSRs		1	1
09/07/1917	09-JUL-1917	#ICSRs		1	1
26/08/1917	26-AUG-1917	#ICSRs		1	1
01/01/1920	01-JAN-1920	#ICSRs		1	1
27/01/1920	27-JAN-1920	#ICSRs		1	1
30/01/1920	30-JAN-1920	#ICSRs		1	1
09/06/1921	09-JUN-1921	#ICSRs		1	1



Please note that the Safety Report  
Data Quality reports within the  
EudraVigilance Administrative Query  
Library will be updated and  
enhanced during 2017.

This training module will be updated  
accordingly



## Section summary: EudraVigilance administrative query library

- **In this section we have covered:**
  - The different categories of reports included in the EudraVigilance administrative query library
  - Principles and instructions for running reports within the Library
  - Output examples of the main reports in the Library





- Introduction to this training module
- Introduction to EVDAS
- ICH-E2B(R3) EVDAS implementation
- EudraVigilance administrative query library
- Pharmacovigilance query library**
- Summary



## Section overview: Pharmacovigilance query library

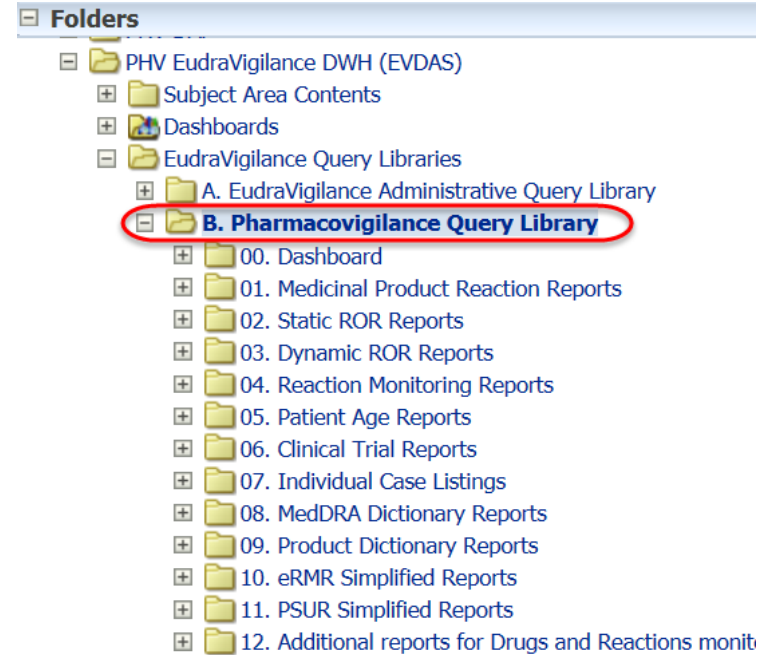
**In this section you will obtain an understanding of:**

- **The main reports included in the pharmacovigilance query library catalogue**

The pharmacovigilance query library contains dashboards and reports that are used for the analysis of safety data, for signal detection and validation as well as assessments during other pharmacovigilance procedures.

The reports provide aggregated data outputs as well as details of the individual cases.

To access the Pharmacovigilance query library, click 'catalog' on the global header, then in the folder pane, expand EudraVigilance DWH (EVDAS), then EudraVigilance Query Libraries then B. Pharmacovigilance Query Library.





In the following slides of this section we are going to present some of the most relevant and commonly used reports in the pharmacovigilance query library. As not all the reports will be presented, please always consult the EVDAS manual for further instructions.



# General dashboard



## General dashboard

- A general dashboard has been created to simplify the data analysis in EVDAS.
- By entering the filter criteria only once on the prompt page of the dashboard (which follows exactly the same prompt structure as all other reports), you will then be able to run several reports simply by clicking on the links corresponding to these reports on the 'Report list page'.
- As before, you can choose to use the simplified or advanced filtering criteria.
- All the report results you will obtain from the next window will correspond to these criteria.



# General dashboard

- [-] EudraVigilance Query Libraries
  - [+] A. EudraVigilance Administrative Query Library
  - [-] B. Pharmacovigilance Query Library
    - [-] **00. Dashboard**
      - [+] **a. General dashboard**
      - [+] 01. Medicinal Product Reaction Reports
      - [+] 02. Static ROR Reports
      - [+] 03. Dynamic ROR Reports



## Report Prompts

### Select a filtering condition to display Simple or Advanced filtering criteria

Choose objects from the list

This prompt allows only one selection

- Select to display a list of simple filtering criteria (pre-filtered for valid cases, excluding duplicates, as of today)
- Select to display a list of advanced filtering criteria

### 1. Filter on Active Substance

Select an Active Substance (High Level) from the list to filter the report results

Active Substance (High Level) [Select Value]

### 2. Filter on MedDRA 'Reaction PT'

Select a MedDRA Reaction PT from the list to filter the report results

Reaction PT [Select Value]

Once the filtering criteria has been selected (simplified or advanced) and the prompts are answered in the report prompt page, move to the report list page for the overview and outputs readily



**a. General dashboard**

Report Prompt Page **Report List Page**

[Return](#)

**Click on Link to run Report**

[a. Number of Individual Cases by Patient Age Group](#)  
This report reflects the number of Individual Cases by Age Groups for one or more medicinal p

[b. Number of individual cases by sex](#)  
This report reflects the number of Individual Cases by sex category.

[c. Number of individual cases by geographic origin](#)  
This report reflects the number of Individual Cases by geographic origin

[d. Number of individual cases by reaction SOC](#)  
This report reflects the number of Individual Cases by reaction SOC.

[e. Number of individual cases by reaction outcome](#)  
This report reflects the number of Individual Cases by reaction outcome

[f. Dynamic ROR Report](#)  
This report generates dynamic Reporting Odds Ratio (ROR) calculations based on the number

[g. Medicinal Product Reaction Report \(# Individual Cases or Adverse Reactions\)](#)  
This report reflects the number of Individual Cases or Adverse Reactions for the Active Ingre

[h. Enhanced Individual Case Line Listing](#)  
This report generates Individual Case line listings to support the case review. The report outp

[i. Distribution of time to onset](#)  
This report displays the distribution of the number on Individual Cases per Time to Onset for t

[j. Median Time to Onset \(in days\) per MedDRA reaction](#)

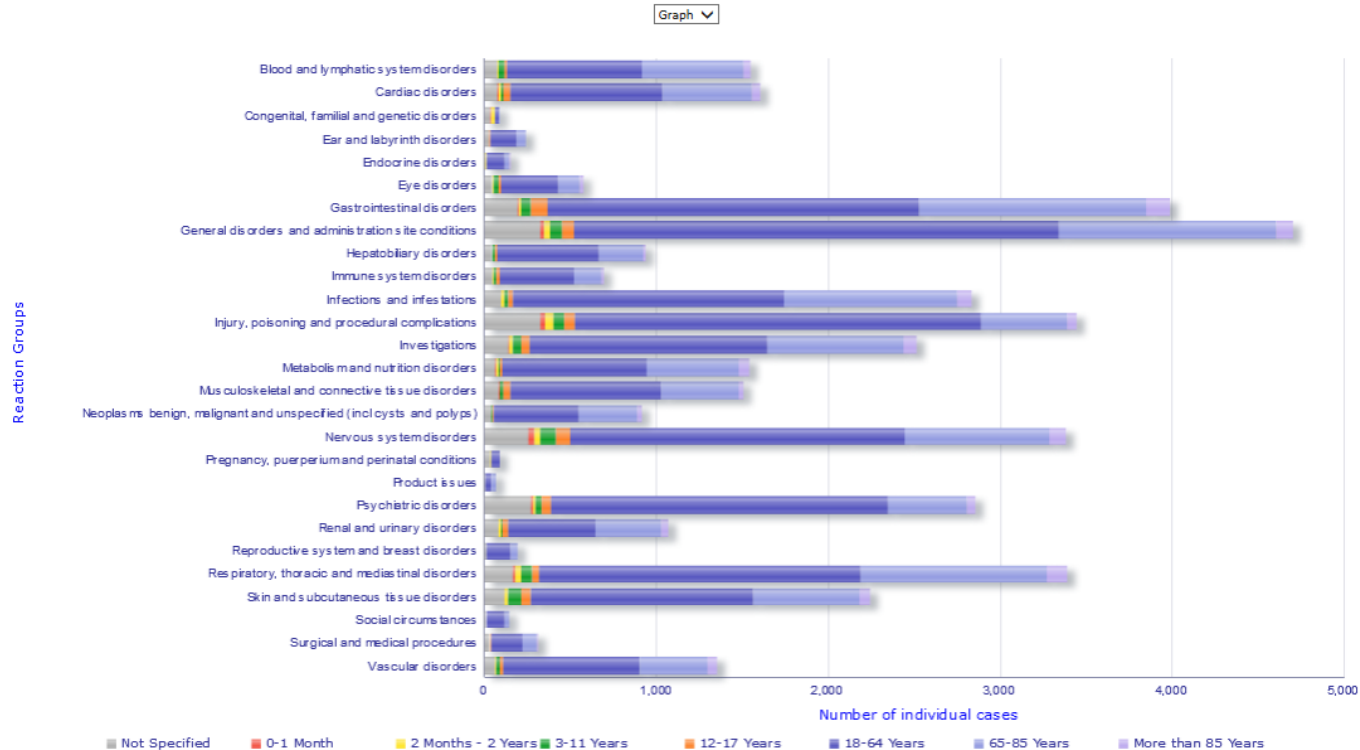
Click on any link to open  
the reports and get the  
data

# General dashboard example: number of cases by age

## a. Number of Individual Cases by Patient Age Group

View filter details

No



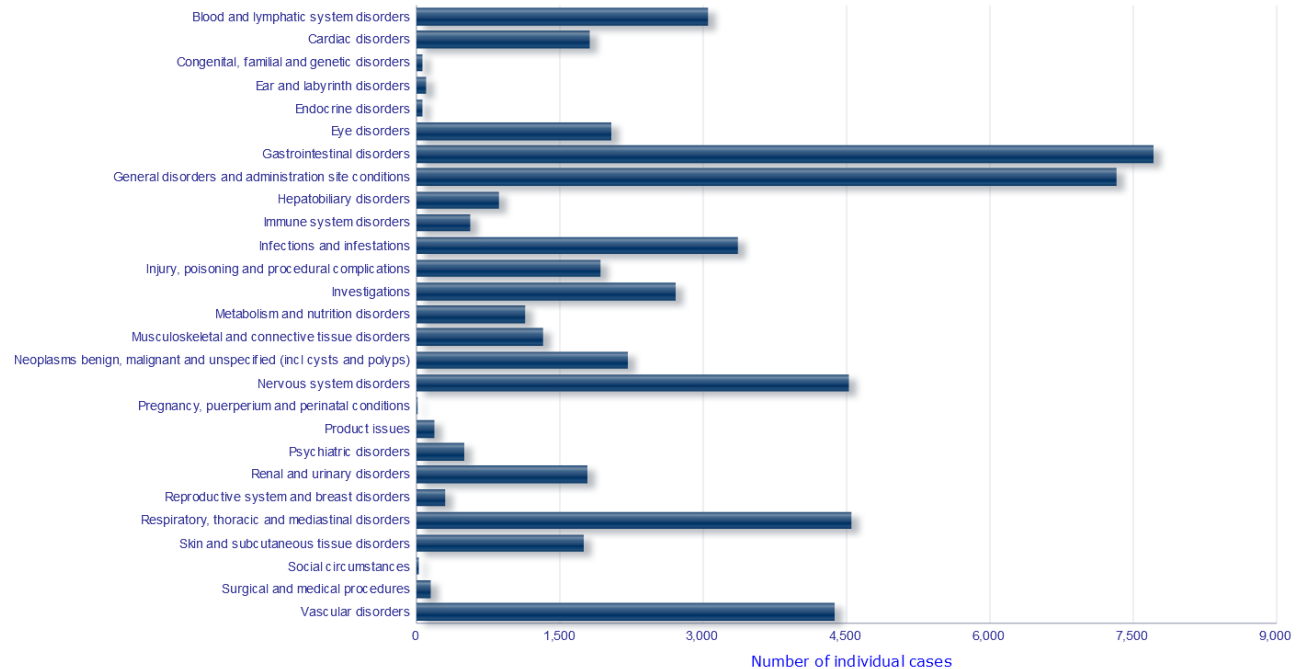
## d. Number of individual cases by reaction SOC

View filter details

No

Graph

Reaction Groups

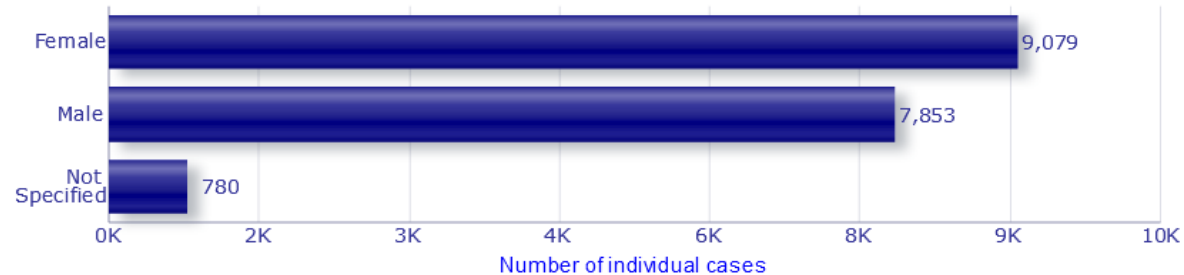


## b. Number of individual cases by sex

View filter details

No ▾

Sex	Cases	%
Female	9,079	51.3%
Male	7,853	44.3%
Not Specified	780	4.4%
<b>Total</b>	<b>17,712</b>	<b>100.0%</b>

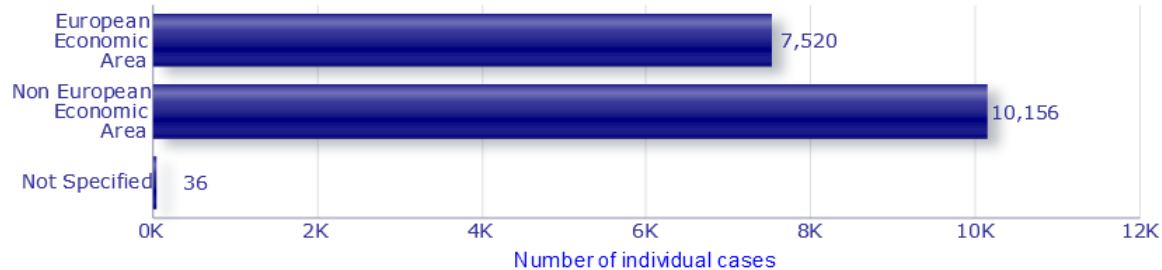


## c. Number of individual cases by geographic origin

View filter details

No ▾

Primary Source Country for Regulatory Purposes	Cases	%
European Economic Area	7,520	42.5%
Non European Economic Area	10,156	57.3%
Not Specified	36	0.2%
<b>Total</b>	<b>17,712</b>	<b>100.0%</b>



## e. Number of individual cases by reaction outcome

View filter details

No ▾

Outcome	Cases	%
Fatal	4,312	24.3%
Not Recovered/Not Resolved	3,291	18.6%
Not Specified	409	2.3%
Recovered/Resolved	7,535	42.5%
Recovered/Resolved With Sequelae	452	2.6%
Recovering/Resolving	2,674	15.1%
Unknown	5,727	32.3%
<b>Total</b>	<b>17,712</b>	<b>100.0%</b>



## i. Distribution of time to onset

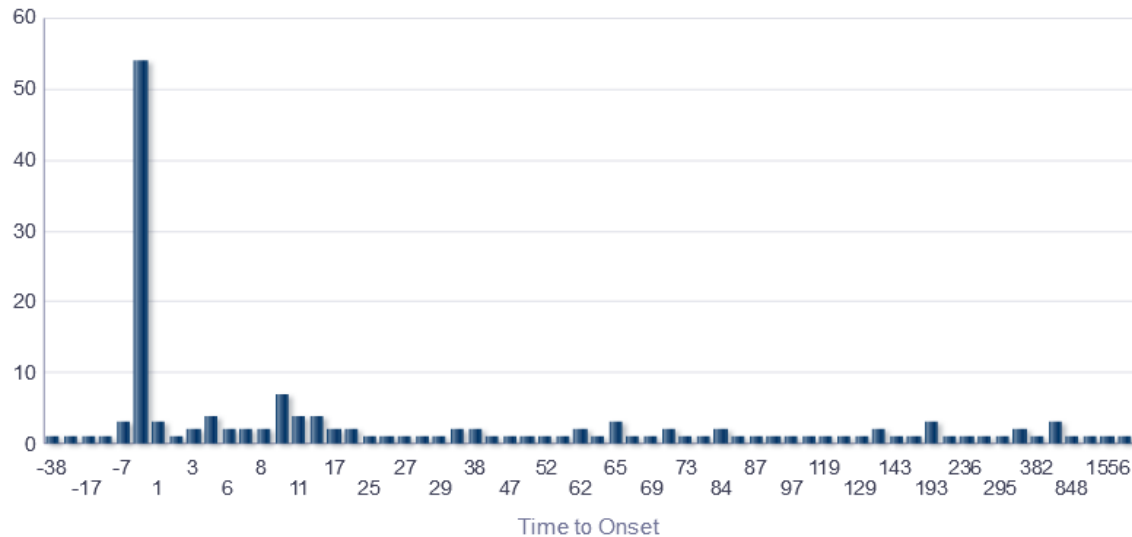
View filter details

No ▾

Active Substance (High Level) ▾ Reaction PT ▾ OK

Select View Graph ▾

Active Substance (High Level) CODEINE ▾ Reaction PT Respiratory failure ▾





# Medicinal Product Reaction Reports





## Medicinal product reaction reports

- The medicinal product reactions reports provide an overview of the number of cases/reactions submitted to the database.
- These reports can be used to have an overview of the cases reported for specific substance and an overview of which substances contain cases for a specific ADR.
- The data can be filtered according to the simplified or advanced filtering criteria previously explained.
- The outcomes are provided in grid or graphs formats.



# Medicinal product reaction reports

The medicinal product reaction reports folder contain 3 different reports

- [-]  **01. Medicinal Product Reaction Reports**
  - [+]  a. Medicinal Product Reaction Report (# Individual Cases)
  - [+]  b. Medicinal Product Reaction Report (# Adverse Reactions)
  - [+]  c. Medicinal Product Reaction Report (# Individual Cases or Adverse Reactions)

# 1.a Medicinal product reaction report – Individual cases



This report reflects the number of individual cases for a substance/product

It is possible to change the level of the substance/product to display the results

By clicking on the chart or table on a reaction will drill down in the MedDRA hierarchy

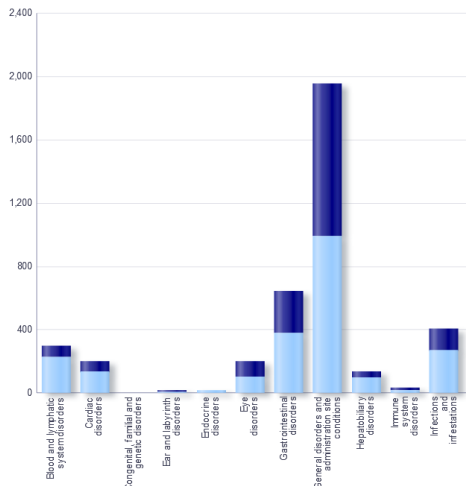
a. Medicinal Product Reaction Report (# Individual Cases)

View filter details

No

Recorded Medicinal Product (High Level) OK

Active Substance (High Level) DABRAFENIB



a. Medicinal Product Reaction Report (# Individual Cases)

View filter details

No

Recorded Medicinal Product (High Level) OK

Select View Grid

Active Substance (High Level) DABRAFENIB

Reaction SOC	Reaction HLT	Recorded Medicinal Product (High Level)	
		DABRAFENIB	TAFINLAR
Congenital, familial and genetic disorders	Chromosomal abnormalities and abnormal gene carriers	1	
	Hepatobiliary disorders congenital		1
	Musculoskeletal and connective tissue disorders congenital		1
	Renal and urinary tract disorders congenital		1

17:47:34

[Return](#) - [Analyze](#) - [Refresh](#) - [Print](#) - [Export](#) - [Add to Briefing Book](#) - [Create Bookmark Link](#)

The Medicinal product reaction report – Adverse reactions provides with the number of reactions according to the selected criteria

Remember one individual case may contain more than one reaction

## b. Medicinal Product Reaction Report (# Adverse Reactions)

View filter details

No ▾

Recoded Medicinal Product (High Level) ▾

Select View  ▾

Active Substance (High Level)  ▾

	Recoded Medicinal Product (High Level)	DABRAFENIB	TAFINLAR
Reaction SOC			
Blood and lymphatic system disorders		319	100
Cardiac disorders		163	82
Congenital, familial and genetic disorders		1	3
Ear and labyrinth disorders		7	9
Endocrine disorders		16	7
Eye disorders		139	140
Gastrointestinal disorders		639	447
General disorders and administration site conditions		1,716	1,509
Hepatobiliary disorders		132	54
Immune system disorders		19	17
Infections and infestations		365	180

- The Medicinal product reaction report – Individual cases or adverse reactions provides the user the possibility to count either number of cases or adverse reactions.
- Count of cases or reactions can be changed once the report has run and the results are obtained.





The report gives you an overview of the number of cases per MedDRA PT

The report offers the possibility to view the total number of all the cases/reactions

And also offers the possibility to view the number of cases/reactions per MedDRA hierarchy (SOC in the example)

Reaction PT	All
Abdominal adhesions	5
Abdominal compartment syndrome	3
Abdominal discomfort	29
Abdominal distension	43
Abdominal hernia	9
Abdominal hernia perforation	1
Abdominal mass	3
Abdominal pain	481
Abdominal pain lower	25
Abdominal pain upper	108
Abdominal rigidity	7
Abdominal strangulated hernia	1

Reaction PT
Reaction HLT
Reaction HLT Multiaxial
Reaction HLTG
Reaction HLTG Multiaxial
Reaction SOC
Reaction SOC Multiaxial
SMQ Level 1
SMQ Level 2
SMQ Level 3
SMQ Level 4
SMQ Level 5
All Reactions

### c. Medicinal Product Reaction R

#### View filter details

No

#### MedDRA reported

indication All Indications

#### Me

ind

All Indications All Indications

All Reactions All  
All Reactions 12,155

[Return](#) - [Analyze](#) - [Refresh](#) - [Print](#) - [Exp](#)

### c. Medicinal Product Reaction Report (# Individual Cases or Adverse Reactions)

#### View filter details

No

#### MedDRA reported

indication All Indications

#### MedDRA Article 57 authorised

indication All Product Indications

#### MedDRA P

History All

All Indications All Indications All Product Indications All Product Indications

Reaction SOC	All
Blood and lymphatic system disorders	297
Cardiac disorders	199
Congenital, familial and genetic disorders	4
Ear and labyrinth disorders	15
Endocrine disorders	20
Eye disorders	201
Gastrointestinal disorders	645
General disorders and administration site conditions	1,952
Hepatobiliary disorders	134
Immune system disorders	36
Infections and infestations	404
Injury, poisoning and procedural complications	165
Investigations	550
Metabolism and nutrition disorders	286



- Remember: to change the view between cases and reactions, substance/product hierarchy and MedDRA hierarchy, select you preference in the corresponding prompts and click OK

All Reactions  All Scientific Product  Count Cases



This report also offers the possibility to further filter the data once you get preliminary results.

Please be aware that report 1a and 1b do not have this possibility

c. Medicinal Product Reaction Report (# Individual Cases or Adverse... Home

---

**c. Medicinal Product Reaction Report (# Individual Cases or Adverse Reactions)**

**View filter details**  
 ▾

**MedDRA reported indication**  ▾    
 **MedDRA Article 57 authorised indication**  ▾    
 **MedDRA Patient Medical History**  ▾    
 **Route of Administration**  ▾    
 **Dosage**  ▾

All Indications  ▾    
 All Product Indications  ▾    
 All Patient Medical History  ▾    
 All ROA  ▾

All Reactions	All
All Reactions	4,177

[Return](#) - [Analyze](#) - [Refresh](#) - [Print](#) - [Export](#) - [Add to Briefing Book](#) - [Create Bookmark Link](#)





# Disproportionality analysis and ROR reports



## Disproportionality analysis

- Disproportionality in *reporting* of ADRs rather than difference in *risk* with the medicinal products.
- The underlying principle of this method is that a drug–event pair is reported more often than expected, this is based on:
  - the frequency of cases on the reported drug and a specific adverse event
  - and the frequency of the same event reported for all the other drugs in the database
- EV criteria for Signals of disproportionality (SDRs):
  - ROR-  $> 1$  AND the number of cases  $\geq 3$  (if on additional monitoring list), otherwise  $n \geq 5$  AND event is an IME



## Measures of disproportionality

- Reporting odds ratio (ROR) – used in EV
- Proportional reporting ratio (PRR)
- Yule's Q
- Poisson probability
- Empirical Bayes Geometric Mean (EBGM, EB05)

	Event R	All other events
Medicinal product P	a	b
All other products	c	d

$$ROR = \frac{a/b}{c/d}$$

- *Similar estimates; concordance increases with rising number of reports (Van Puijenbroek et al. Pharmacoepidemiology and drug safety. 2002; 11: 3-10; Candore et al. Drug Safety. 2015;38(6):577-87)*



## Benefits of using disproportionality analyses

ORIGINAL RESEARCH ARTICLE

Drug Saf 2010; 33 (6): 475-487  
0114-5916/10/0006-0475/\$49.95/0

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### **Validation of Statistical Signal Detection Procedures in EudraVigilance Post-Authorization Data**

**A Retrospective Evaluation of the Potential for Earlier Signalling**

*Yolanda Alvarez,<sup>1,2</sup> Ana Hidalgo,<sup>1</sup> Francois Maignen<sup>1</sup> and Jim Slattery<sup>1</sup>*

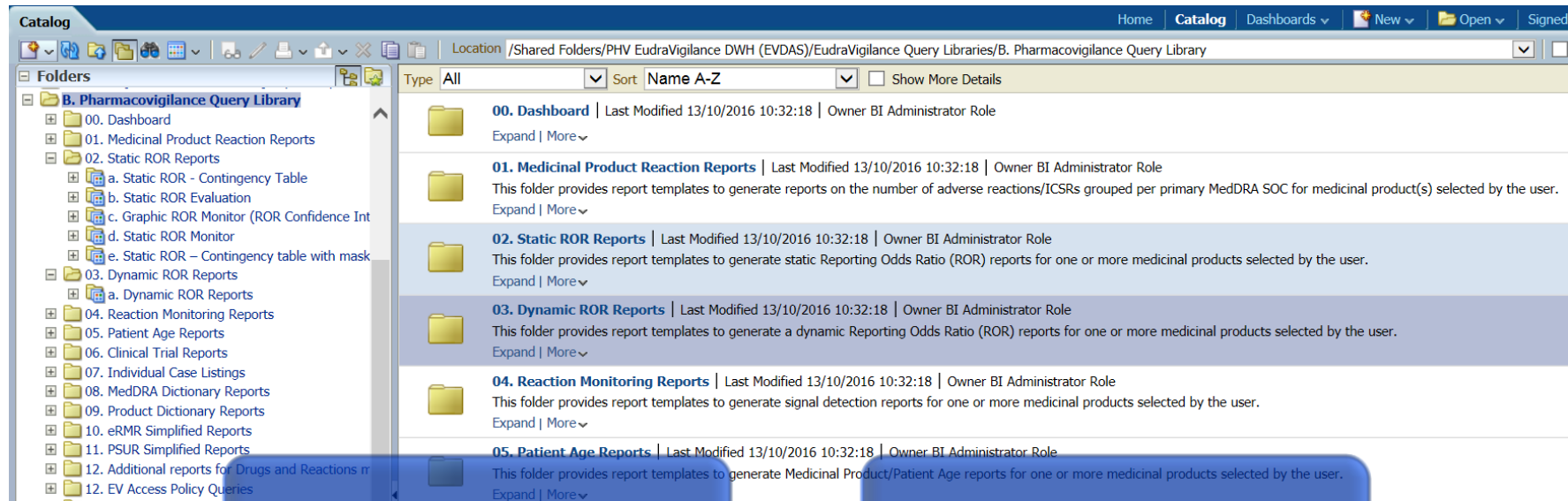
- Statistical methods can lead to earlier detection of safety signals – approx. 54% signals were detected earlier (mean time saved 2.45 years)
- 20% signals are however detected earlier by traditional methods
- 26% are not detected by statistical methods → established pharmacovigilance methods and disproportionality analyses are complementary

- The disproportionality analysis is not an inferential exercise.
- Disproportionality in reporting may arise due to a number of biases (underlying disease, artefacts due to reporting practices/ medical terminologies/coding/duplicates, type of medicinal products/source of data etc.).
- This statistical association does not imply any kind of causal relationship between the administration of the drug and the occurrence of the adverse event.
- False positives – where there is no causal association but SDR is present.
- False negatives (masking effect\*) - the absence of an SDR does not exclude an association.
  - *\*Maignen et al. Pharmacoepidemiology and drug safety. 2014; 23(2): 208-217*
- Consequently, there is a scientific consensus that SDRs from quantitative methods should always be medically assessed.



Principles and methods for statistical signal detection in EudraVigilance are developed in the EMA guideline 'Screening for adverse reactions in EudraVigilance'

## 5 reports for static ROR and 1 for dynamic ROR



The screenshot shows a file catalog interface with the following structure:

- 00. Dashboard
- 01. Medicinal Product Reaction Reports
- 02. Static ROR Reports
  - a. Static ROR - Contingency Table
  - b. Static ROR Evaluation
  - c. Graphic ROR Monitor (ROR Confidence Int)
  - d. Static ROR Monitor
  - e. Static ROR – Contingency table with mask
- 03. Dynamic ROR Reports
  - a. Dynamic ROR Reports
- 04. Reaction Monitoring Reports
- 05. Patient Age Reports
- 06. Clinical Trial Reports
- 07. Individual Case Listings
- 08. MedDRA Dictionary Reports
- 09. Product Dictionary Reports
- 10. eRMR Simplified Reports
- 11. PSUR Simplified Reports
- 12. Additional reports for Drugs and Reactions r
- 12. EV Access Policy Queries

The main pane displays details for folders 00 through 05, including their last modified dates and owner information.

Static: ROR at a point in time, now or in the past

Dynamic: ROR over time



# ROR report B.2.a Static ROR – Contingency Table

**a. Static ROR - Contingency Table**

**View filter details**  
No ▾

Active Substance (High Level) ▾ Reaction PT ▾

Active Substance (High Level) CODEINE ▾ Reaction PT Acute myocardial infarction ▾

Click here to drill down to CODEINE and Acute myocardial infarction

A (N cases with P and E)	3
B (N cases with P and not E)	3,171
C (N cases with E and not P)	13,135
D (N cases with not P and not E)	4,561,322
[A + B + C + D]	4,577,631
ROR (-)	0.11
ROR	0.33
ROR (+)	1.02

ROR calculation

ROR confidence interval



# ROR report B.2.b Static ROR Evaluation

## b. Static ROR Evaluation

View filter details

No ▾

Active Substance (High Level) ▾

Active Substance (High Level) CODEINE ▾

Possibility to filter for one or more substances and any MedDRA level

The results show the MedDRA term, the ROR and its confidence interval

Reaction PT	ROR (-)	ROR	ROR (+)	# Cases
Cardiac disorder	0.11	0.28	0.76	4
Cardiotoxicity	0.18	1.31	9.30	1
Cardiovascular disorder	0.71	1.43	2.86	8
Cardiovascular insufficiency	0.24	1.67	11.89	1

# ROR report B.2.b Static ROR Evaluation – subgroup analysis

Drill down to predefined subgroups by clicking on the ROR

Subgroups can be selected in the age group drop-down menu

a. Static ROR - Contingency Table --> Drill to subgroup

View filter details

No

Active Substance (High Level) Reaction PT **Subgroup** Age Group OK

Active Substance (High Level) CODEINE Reaction PT Cardiac arrest

Click here to drill down to CODEINE and Cardiac arrest

	Not Specified	0-1 Month	2 Months - 2 Years	3-11 Years	12-17 Years	18-64 Years	65-85 Years	Total
A (N cases with P and E)	6			1	2	43	5	57
B (N cases with P and not E)	403			103	90	2,035	365	2,996
C (N cases with E and not P)	3,130			484	586	14,586	8,214	27,000
D (N cases with not P and not E)	859,738			116,010	115,193	2,023,720	1,105,081	4,219,742
[A + B + C + D]	863,277			116,598	115,871	2,040,384	1,113,665	4,249,795
ROR (-)	1.82			0.32	1.07	2.17	0.76	2.21
ROR	4.09			2.33	4.37	2.93	1.84	2.88
ROR (+)	9.16			16.71	17.78	3.97	4.46	3.74

None  
Age Group  
Paediatric/Adult  
Gender  
Continent  
Seriousness  
Reporter  
Year of Reporting

OK

The dataset for the calculation of the ROR can be selected upfront

In the example, the ROR will be calculated against data for other fluoroquinolones

## Filtering criteria for Subgroup analysis

Filter the background data on which the ROR is calculated

### 3. Select a filtering condition from Medicinal Product hierarchy to filter the report results

Choose objects from the list

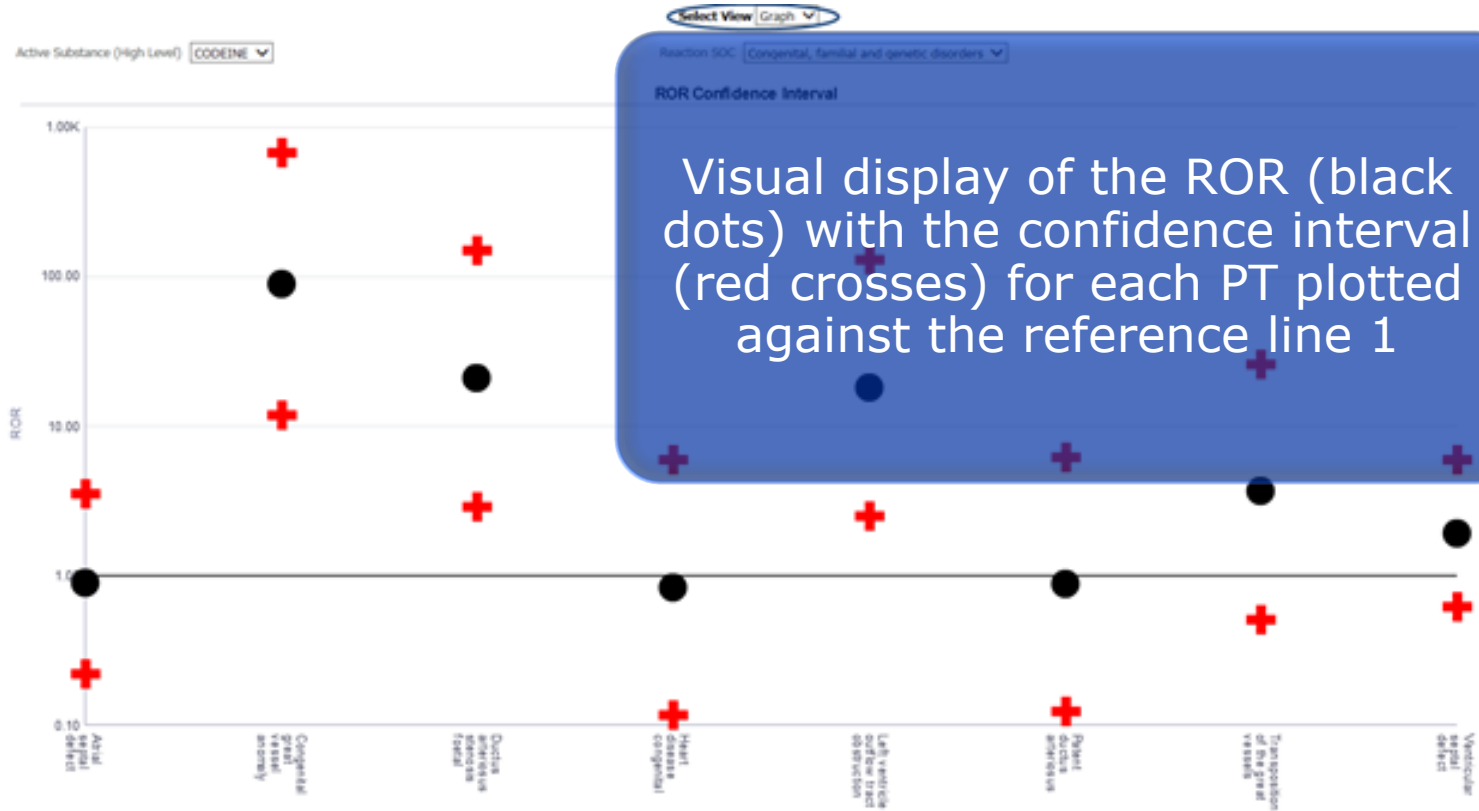
This prompt allows only one selection

The Medicinal Product of interest selected above is automatically included in this filter

Medicinal Product Hierarchy  none

- One or more Active Substances (High Level) as selected from the EVMPD Scientific Product Database
- One or more Active Substances as selected from the EVMPD Scientific Product Database
- One or more recoded Medicinal Products (High Level) as selected from the EVMPD Product Index
- One or more recoded Medicinal Products as selected from the EVMPD Product Index
- One or more reported Medicinal Products - Substance(s)
- ATC code

Active Substance (High Level)



# ROR report B.2.d Static ROR Monitor

## d. Static ROR Monitor

### View filter details

No

Active Substance (High Level)

Calculates the value of the ROR at the levels of MedDRA SOC, HLGT, HLT and PT

Reaction SOC	Reaction HLGT	Reaction HLT	Reaction PT	ROR (SOC)	ROR (-) (SOC)	ROR (HLGT)	ROR (-) (HLGT)	ROR (HLT)	ROR (-) (HLT)	ROR (PT)	ROR (-) (PT)	
Blood and lymphatic system disorders	Anaemias nonhaemolytic and marrow depression	Anaemias NEC	Anaemia	1.99	1.58	1.49	0.97	1.41	0.81	1.58	0.91	
		Marrow depression and hypoplastic anaemias	Aplastic anaemia	1.99	1.58	1.49	0.97	1.57	0.78	3.17	0.44	
			Bone marrow failure	1.99	1.58	1.49	0.97	1.57	0.78	2.78	1.04	
			Pancytopenia	1.99	1.58	1.49	0.97	1.57	0.78	1.05	0.34	
	Coagulopathies and bleeding diatheses (excl thrombocytopenic)	Coagulopathies	Coagulopathy	1.99	1.58	2.00	1.04	2.73	1.42	1.88	0.47	
			Disseminated intravascular coagulation	1.99	1.58	2.00	1.04	2.73	1.42	5.80	2.75	
	Haematological disorders NEC	Haematological disorders	Haemoconcentration	1.99	1.58	1.61	0.40	1.61	0.40	75.63	9.45	
			Histiocytosis haematophagic	1.99	1.58	1.61	0.40	1.61	0.40	2.60	0.36	
	Haemolyses and related conditions	Anaemias haemolytic NEC	Haemolytic anaemia	1.99	1.58	2.41	0.90	2.50	0.62	2.52	0.63	
		Anaemias haemolytic mechanical factor	Haemolytic uraemic syndrome	1.99	1.58	2.41	0.90	3.17	0.44	3.93	0.55	
		Haemolyses NEC	Haemolysis	1.99	1.58	2.41	0.90	7.27	2.33	5.58	1.38	
	Platelet disorders	Thrombocytopenias	Intravascular haemolysis	1.99	1.58	2.41	0.90	7.27	2.33	26.30	3.55	
			Heparin-induced thrombocytopenia	1.99	1.58	1.98	1.22	2.05	1.27	2.37	0.59	
			Thrombocytopenia	1.99	1.58	1.98	1.22	2.05	1.27	2.13	1.25	
	Red blood cell disorders	Polycythaemia (excl rubra vera)	Thrombocytopenic purpura	1.99	1.58	1.98	1.22	2.05	1.27	4.17	0.58	
			Polycythaemia	1.99	1.58	20.31	10.43	7.76	1.08	8.07	1.12	
			Red blood cell abnormal findings NEC	Erythroptenia	1.99	1.58	20.31	10.43	25.37	12.48	55.11	16.87
	Spleen, lymphatic and reticuloendothelial system disorders	Lymphatic system disorders NEC	Macrocytosis	1.99	1.58	20.31	10.43	25.37	12.48	74.06	29.21	
			Lymph node pain	1.99	1.58	0.95	0.40	0.88	0.33	3.90	0.55	
			Lymphadenopathy	1.99	1.58	0.95	0.40	0.88	0.33	1.00	0.37	
	White blood cell disorders	Spleen disorders	Splenic infarction	1.99	1.58	0.95	0.40	1.25	0.18	12.87	1.77	
			Eosinophilic disorders	Allergic eosinophilia	1.99	1.58	2.46	1.75	4.34	2.16	99.90	99.90
			Eosinophilia	1.99	1.58	2.46	1.75	4.34	2.16	3.83	1.82	
	Leukocytoses NEC	Leukocytosis	Leukocytosis	1.99	1.58	2.46	1.75	1.63	0.61	2.20	0.82	
			Lymphocytosis	1.99	1.58	2.46	1.75	1.63	0.61	4.23	0.59	

Display the results of the contingency and permits to remove substances or reactions from the calculation.

e. Static ROR – Contingency table with masking calculation

Filtering criteria for Masking calculation

3. Remove an Active Substance - Medicinal Product (OR Condition)

Active Substance (High Level) NOT

Active Substance NOT

Recorded Medicinal Product (High Level) NOT

Recorded Medicinal Product NOT

Reported Medicinal Product - Substance(s) NOT

ATC Code NOT

Select by ATC Code ID

4. Remove a Reaction (OR Condition)

Reaction PT NOT

Reaction HLT NOT

Reaction HLTG NOT

Reaction SOC NOT

SMQ Level 1 NOT

SMQ Level 2 NOT

SMQ Level 3 NOT

SMQ Level 4 NOT

SMQ Level 5 NOT

It is estimated that the highest masking effect is due to the product (or products) which has the highest number of reports for the reaction of interest other than the product of interest

e. Static ROR – Contingency table with masking calculation

View filter details

No

Active Substance (High Level)  Reaction PT

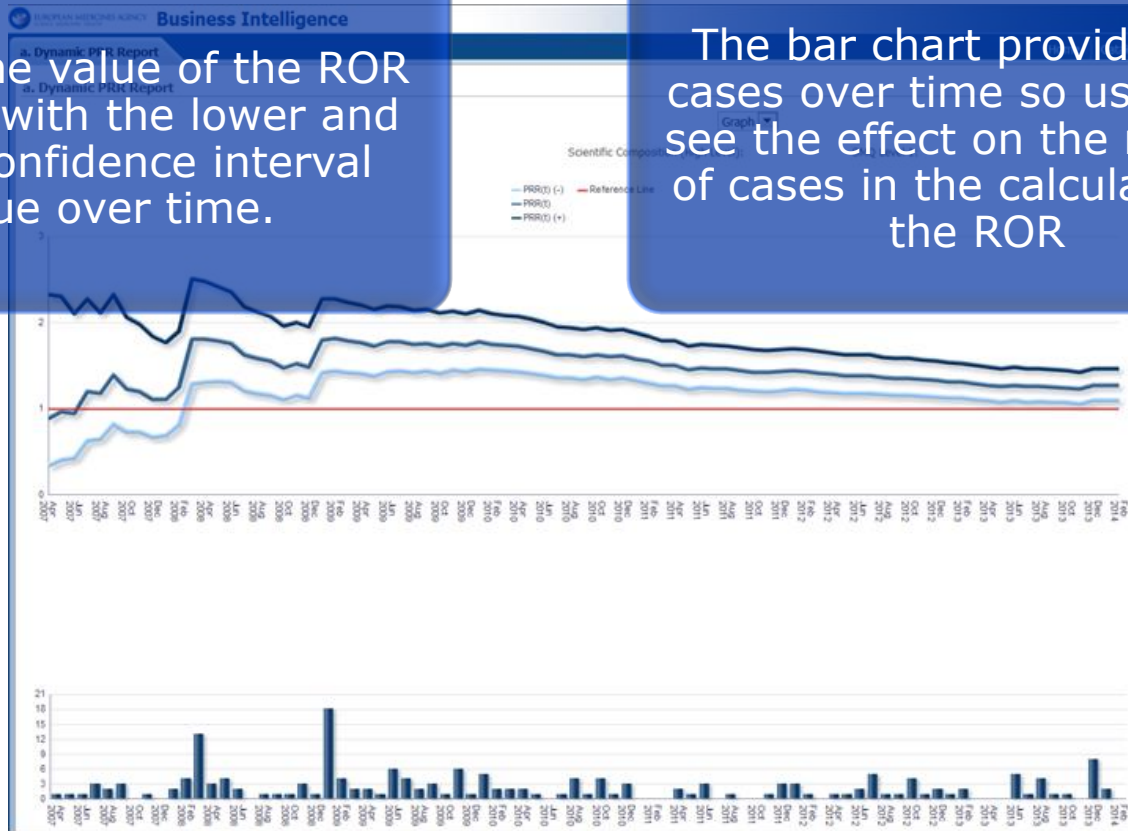
Active Substance (High Level)  Reaction PT

[Click here to drill down to CODEINE and Acute hepatic failure](#)

A (N cases with P and E)	7
B (N cases with P and not E)	3,167
C (N cases with E and not P)	5,136
D (N cases with not P and not E)	4,569,321
[A + B + C + D]	4,577,631
ROR (-)	0.94
ROR	1.97
ROR (+)	4.13

Display the value of the ROR together with the lower and upper confidence interval value over time.

The bar chart provides the cases over time so users can see the effect on the number of cases in the calculation of the ROR





# eRMR and eRMR simplified reports



# eRMR: a tool for signal detection in EV

Active Substances	SOCs	PTs	IME / DMF	New EV	Tot EV	Tot Fat	AM OM C	Tot + R	Tot Li	Priority Paer	Priority Gerial	Tot Sponta neol	PRR (-) All	Priority All	Changes	Signal Status
Active substance	Blood	Cytopenia	Ime	1	21	7	---	0	0			4	4.25	2-IME SDR	Increased	linked
Active substance	Blood	Thrombocytopenia	Ime	2	109	26	---	0	2	1-TME		41	3.36	2-IME SDR	Increased	linked
Active substance	Card	Cardiac Disorder		1	20	4	---	0	0			6	0.77		Increased	linked
Active substance	Card	Arteriosclerosis Coronary Artery		1	5	1	---	0	2			3	1.80		Increased	linked
Active substance																linked
Active substance																closed
Active substance																linked
Active substance																linked
Active substance																linked
Active substance																other
Active substance	Genrl	Condition Aggravated		2	8	1	---	0	0			6	0.49	SDR (fatal)	Increased	disease
Active substance	Genrl	Peripheral Swelling		3	19	1	---	0	0			3	0.19		Increased	linked
Active substance	Genrl	Chest Discomfort		2	19	1	---	0	0			6	0.64		Increased	linked
Active substance	Genrl	Pain		1	61	7	---	0	0			10	0.32		Increased	other
Active substance	Genrl	No Therapeutic Response		1	6	1	---	0	1			5	2.39		Increased	Other
Active substance	Immun	Drug Hypersensitivity		1	5	1	---	0	0			2	0.23		Increased	closed

Electronic Reaction Monitoring Report (eRMR) is a formatted Excel file used as a tool for monitoring the safety of drug use, facilitating prioritisation, detection, evaluation and documentation of suspected adverse drug reactions in EudraVigilance.

- The EMA routinely provides eRMRs to NCAs for monitoring of EV according to the work-sharing list for signal management.
- One file per active substance is provided
- The eRMR file contains built-in simplified queries that allows for direct access to EVDAS (e.g. Line listings and statistical analysis) facilitating signal validation and evaluation.



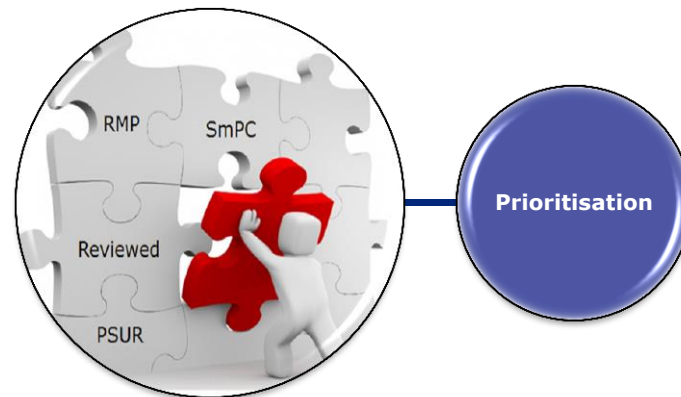
**Detection** of signals by monitoring new and historical data in EudraVigilance

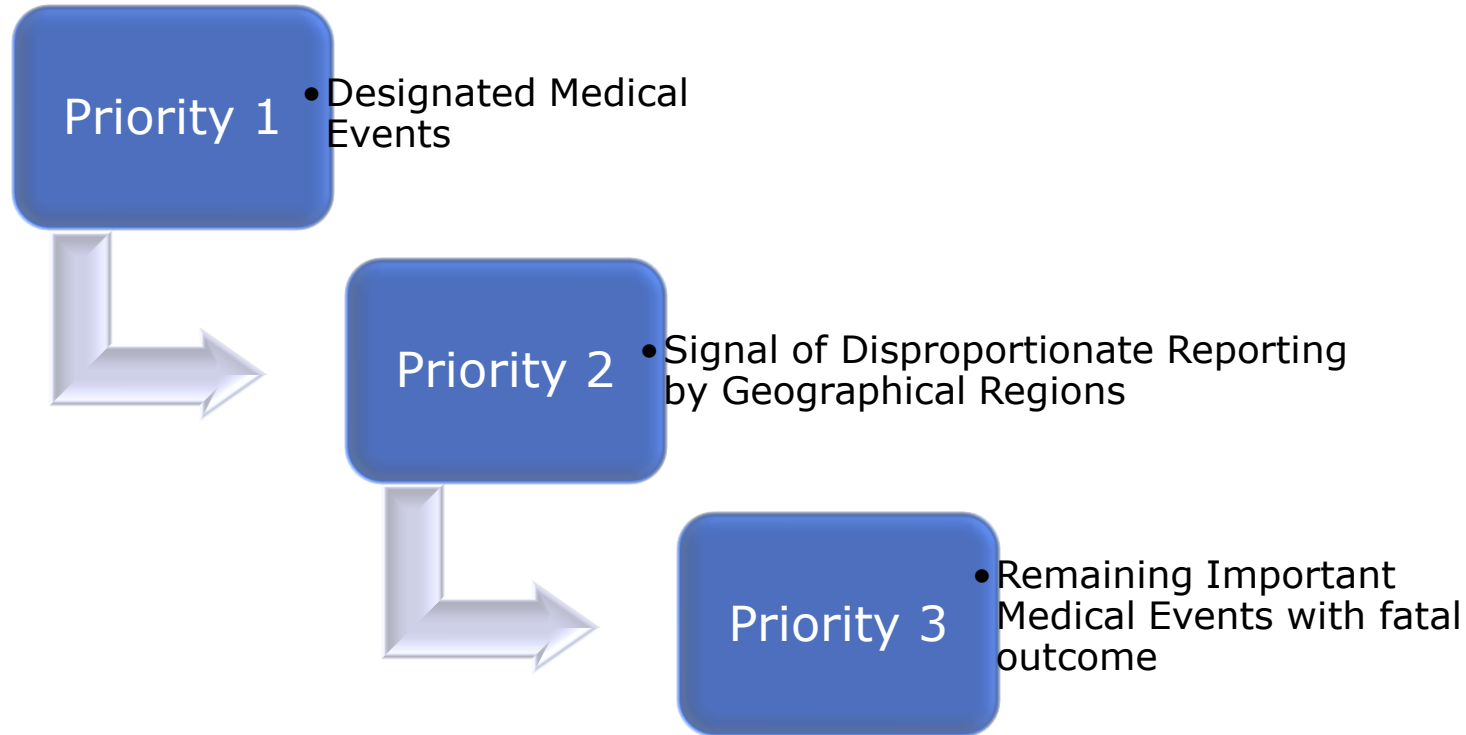


**Evaluation** of the new safety information in relation to previous awareness



**Tracking** all reviews to build knowledge overtime assigning a signal status








# Designated medical events list

## Designated medical events (updated)

EMA has developed a list of designated medical events containing **medical conditions** that are inherently **serious** and often medicine-related:

▶  [EMA designated medical event list](#)

It does not address product specific issues or medical conditions with high prevalence in the general population.

The list contains [Medical Dictionary for Regulatory Activities](#)  (MedDRA) terms and serves as a **safety net in signal detection**. EMA and Member States use it to focus on reports of suspected adverse reactions that deserve special attention, irrespective of statistical criteria used to prioritise safety reviews.

The designated medical event list is one of the tools the [European medicines regulatory network](#) uses and is **not intended as a comprehensive list** of terms for signal detection activities.

EMA has published the list to ensure its approach is transparent. It is subject to review in light of further experience with its use.

[http://www.ema.europa.eu/ema/index.jsp?curl=pages/regulation/general/general\\_content\\_000587.jsp&mid=WC0b01ac0580727d1b](http://www.ema.europa.eu/ema/index.jsp?curl=pages/regulation/general/general_content_000587.jsp&mid=WC0b01ac0580727d1b)





# Important medical events

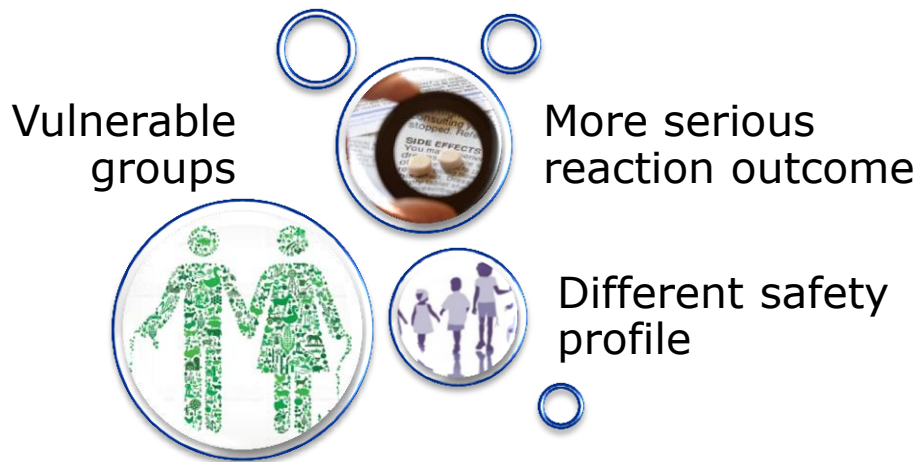
## Important medical event list

The EudraVigilance Expert Working Group has coordinated the development of a [list of important medical event \(IME\) terms](#), together with the criteria to facilitate its maintenance.

The list aims to facilitate the classification of suspected adverse reactions as well as aggregated data analysis and case assessment for the day-to-day [pharmacovigilance](#) activities of stakeholders in the EU. The list is for guidance purposes only. To submit any comments on the IME list, send an email to: [medraimelist@ema.europa.eu](mailto:medraimelist@ema.europa.eu).

- ▶  [Important medical event terms list \(MedDRA version 19.1\)](#)
- ▶  [Inclusion and exclusion criteria for the "Important Medical Events" list](#)

[http://www.ema.europa.eu/ema/index.jsp?curl=pages/regulation/q\\_and\\_a/q\\_and\\_a\\_detail\\_000166.jsp&mid=WC0b01ac0580a68f78](http://www.ema.europa.eu/ema/index.jsp?curl=pages/regulation/q_and_a/q_and_a_detail_000166.jsp&mid=WC0b01ac0580a68f78)



## Data presented by sub-groups

- Separate presentation of data in the eRMR based on new/cumulative number of cases for paediatrics and geriatrics

## Targeted medical events

- Flag in the eRMR targeted medical terms with an increased interest in the subpopulation

## Relative ROR

- New statistical method: Relative ROR which identifies a subgroup imbalance

eRMR

EVDAS

Legend

DME	Paediatric TME
Acute hepatic failure	Cardiac arrest
Acute kidney injury	Overdose
Agranulocytosis	Drug ineffective
Anaphylactic reaction	Respiratory arrest
Anaphylactic shock	Dyspnoea
Anaphylactoid reaction	Brain oedema
Anaphylactoid shock	Cardiac failure
Angioedema	Respiratory distress
Aplasia pure red cell	Off label use
Aplastic anaemia	Accidental overdose
Autoimmune haemolytic anaemia	Intentional overdose
Autoimmune hepatitis	Pulmonary oedema
Autoimmune pancreatitis	Pulmonary haemorrhage
Azotaemia	Septic shock
Blindness	Thrombocytopenia
Bone marrow failure	Apnoea
Deafness	Drug Abuse
Deafness neurosensory	Neutropenia
Deafness permanent	Haemorrhage intracranial
Deafness transitory	Pulmonary Embolism
Dermatitis exfoliative	Hypertension
Dermatitis exfoliative generalised	Anaemia

▶ ◀ eRMR\_03Oct2016\_06Nov2016 **EVDAS** Legend



- Used of the Agreed Terminology (MedDRA) to Report a Drug Event Combination (DEC) and to group cases by different medical concepts

Active Substances	SOCs	HLGTs	HLTs	SMQ Narrow	PTs
Active Substances	Neopl	Miscellaneous And Site Unspecified Neoplasms	Neoplasms Malignant Site Unspecified	Malignancies	Neoplasm Malignant
Active Substances	Neopl	Respiratory And Mediastinal Neoplasms	Non-Small Cell Neoplasms Malignant Of	Malignancies	Lung Adenocarcinoma
Active Substances	Neopl	Skin Neoplasms Malignant And	Skin Melanomas (Excl Ocular)	Malignancies - Skin Neopl, Malig & Unspec	Lentigo Maligna
Active Substances	Nerv	Neurological Disorders Of The Eye	Neurologic Visual Problems Nec		Hemianopia Homonymous
Active Substances	Resp	Pulmonary Vascular Disorders	Pulmonary Thrombotic And Embolic Conditions	Embolic And Thrombotic Events	Pulmonary Embolism



- Defined Categories in EV used to display the most relevant information for the screening

New EV	Tot EV	New EEA	Tot EEA	New HCP	Tot HCP	New Serious	Tot Serious	New Obs	Tot Obs	New CT	Tot CT	New Fatal	Tot Fatal	AMOMO	Tot + RC	Tot Lit
1	11	0	7	1	11	1	11	0	2	0	1	0	5	---	0	0
1	7	1	6	1	6	1	7	0	0	0	2	0	0	---	0	0
1	13	1	9	1	13	1	13	0	4	0	1	0	0	---	0	3
1	75	0	22	1	74	1	75	0	33	0	4	1	18	---	0	0
1	23	1	10	1	9	1	23	0	16	0	0	0	0	---	0	0

AMOMO stands for: Abuse, Misuse, Overdose, Medication Error, and Occupational Exposure data

➤ Priorities Total population

➤ Priorities Paediatrics

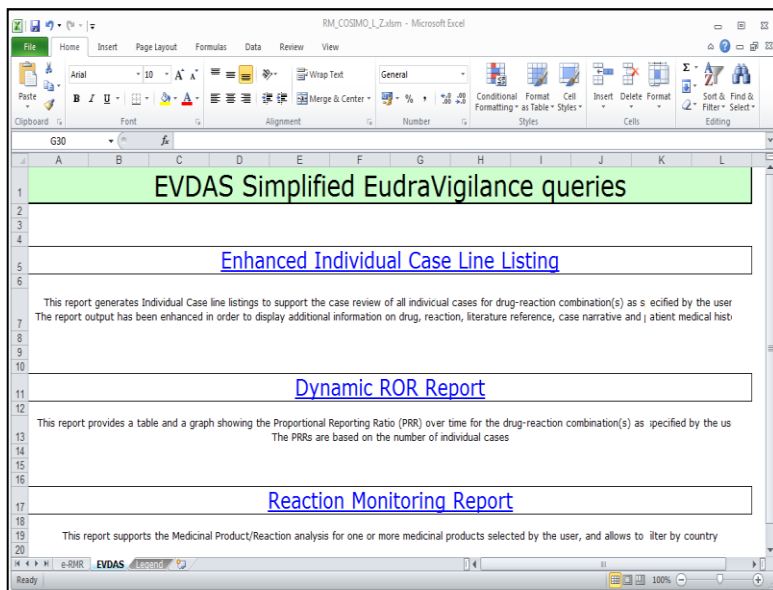
➤ Priorities Geriatrics

Active Substances	SOCs	SMQ Narrow	PTs	Priority Paed	Priority Geriatr	Priority All
Active Substances	Resp	Convulsions - Gen-Conv-Seiz Following Immunisation	Dyspnoea	1. TMEs		
Active Substances	Immun	Depress & Suicide/Self-Inj	Anaphilactic shock		2-IME SDR	1. DME
Active Substances	Immun		Transplant Rejection	2 - IME SDR		3. IME Fatal
Active Substances	Inj&p		Transplant Dysfunction			2-IME SDR
Active Substances	Blood	Haematopoietic Cytopenias	Leukopenia			

- Positive Re-challenge
- Literature Reports
- Most reported Route of Administration (RoA)
- Most reported Indication (HLGT)

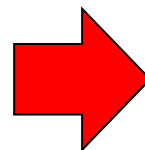
Tot + RC	Tot Lit	Roa 1	Tot Roa (n/a)	Indic.1 (HLGT)	Tot Indic. (n/a)
<u>0</u>	5	Oral Use	18	Seizures (Incl Subtypes)	13
<u>0</u>	0	Oral Use	8	Seizures (Incl Subtypes)	1
<u>1</u>	33	Intravenous Use	34	Therapeutic Procedures And Supportive Care Nec	6
<u>0</u>	3	Intravenous Use	9	Therapeutic Procedures And Supportive Care Nec	5
<u>8</u>	3	Oral Use	55	Demyelinating Disorders	159

## eRMR

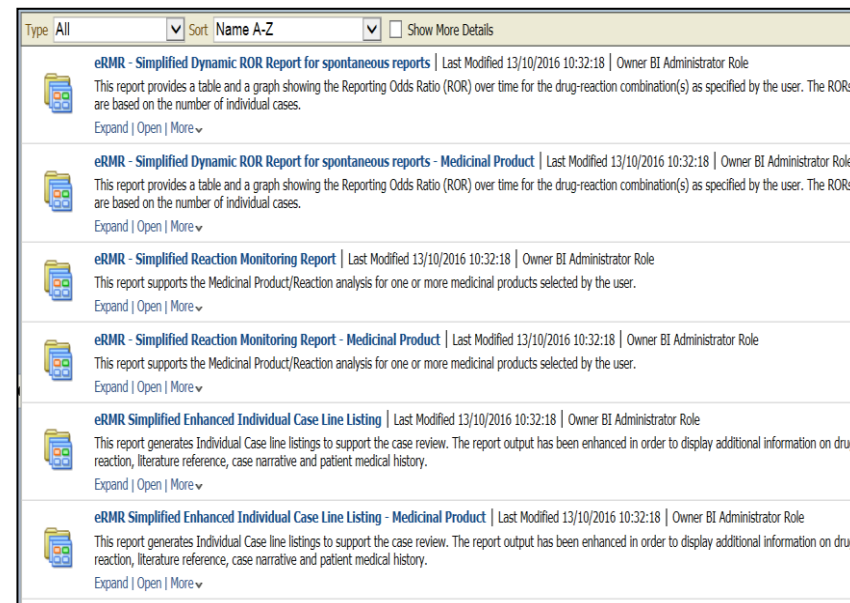


The screenshot shows an Excel spreadsheet with the following content:

<b>EVDAS Simplified EudraVigilance queries</b>											
<a href="#">Enhanced Individual Case Line Listing</a>											
This report generates Individual Case line listings to support the case review of all individual cases for drug-reaction combination(s) as specified by the user. The report output has been enhanced in order to display additional information on drug, reaction, literature reference, case narrative and patient medical history.											
<a href="#">Dynamic ROR Report</a>											
This report provides a table and a graph showing the Proportional Reporting Ratio (PRR) over time for the drug-reaction combination(s) as specified by the user. The PRRs are based on the number of individual cases.											
<a href="#">Reaction Monitoring Report</a>											
This report supports the Medicinal Product/Reaction analysis for one or more medicinal products selected by the user, and allows to filter by country.											



## EVDAS



The screenshot shows a search results page with the following content:

Type: All | Sort: Name A-Z | Show More Details

- eRMR - Simplified Dynamic ROR Report for spontaneous reports** | Last Modified 13/10/2016 10:32:18 | Owner BI Administrator Role  
This report provides a table and a graph showing the Reporting Odds Ratio (ROR) over time for the drug-reaction combination(s) as specified by the user. The RORs are based on the number of individual cases.  
Expand | Open | More
- eRMR - Simplified Dynamic ROR Report for spontaneous reports - Medicinal Product** | Last Modified 13/10/2016 10:32:18 | Owner BI Administrator Role  
This report provides a table and a graph showing the Reporting Odds Ratio (ROR) over time for the drug-reaction combination(s) as specified by the user. The RORs are based on the number of individual cases.  
Expand | Open | More
- eRMR - Simplified Reaction Monitoring Report** | Last Modified 13/10/2016 10:32:18 | Owner BI Administrator Role  
This report supports the Medicinal Product/Reaction analysis for one or more medicinal products selected by the user.  
Expand | Open | More
- eRMR - Simplified Reaction Monitoring Report - Medicinal Product** | Last Modified 13/10/2016 10:32:18 | Owner BI Administrator Role  
This report supports the Medicinal Product/Reaction analysis for one or more medicinal products selected by the user.  
Expand | Open | More
- eRMR Simplified Enhanced Individual Case Line Listing** | Last Modified 13/10/2016 10:32:18 | Owner BI Administrator Role  
This report generates Individual Case line listings to support the case review. The report output has been enhanced in order to display additional information on drug, reaction, literature reference, case narrative and patient medical history.  
Expand | Open | More
- eRMR Simplified Enhanced Individual Case Line Listing - Medicinal Product** | Last Modified 13/10/2016 10:32:18 | Owner BI Administrator Role  
This report generates Individual Case line listings to support the case review. The report output has been enhanced in order to display additional information on drug, reaction, literature reference, case narrative and patient medical history.  
Expand | Open | More

eRMR Simplified Enhanced Individual Case Line Listing - Medicinal Pr... Home Catalog Dashboards

### Report Prompts

**1. Filter on Medicinal Product**  
Select an Medicinal Product (High Level) from the list to filter the report results.

Recorded Medicinal Product (High Level)

**2. Filter on MedDRA 'Reaction PT'**  
Select a MedDRA Reaction PT from the list to filter the report results

Reaction PT

**3. Enter a Start Date and End Date**  
This prompt requires a value between 01/01/2002 and Today's Date

EV Message Gateway Date Between

**4. Select any other additional criteria to filter the report results**  
Choose objects from the list.

Fatal <input type="checkbox"/> Yes	Spontaneous Cases <input type="checkbox"/> Yes	Paediatric Cases (under 18) <input type="checkbox"/> Yes
Serious <input type="checkbox"/> Yes	Clinical Trial Cases <input type="checkbox"/> Yes	Adult Cases (18 to 64) <input type="checkbox"/> Yes
EEA Cases <input type="checkbox"/> Yes	Literature Cases <input type="checkbox"/> Yes	65 and over <input type="checkbox"/> Yes
Healthcare Professional Cases <input type="checkbox"/> Yes	Observational Study Cases <input type="checkbox"/> Yes	

Direct access to the enhanced case line listing

The data can be retrieved by substance or by product using the respective reports

The outcome of this simplified reports is the same as the enhanced individual case line listing report



## Report Prompts

### 1. Filter on Active Substance

Select an Active Substance ("High Level") from the list to filter the report results.

Allows for dynamic ROR outputs by providing the name of the substances/products and the PT of interest

Active Substance (High Level)

### 2. Filter on MedDRA Reaction PT

Select a MedDRA Reaction PT from the list to filter the report results.

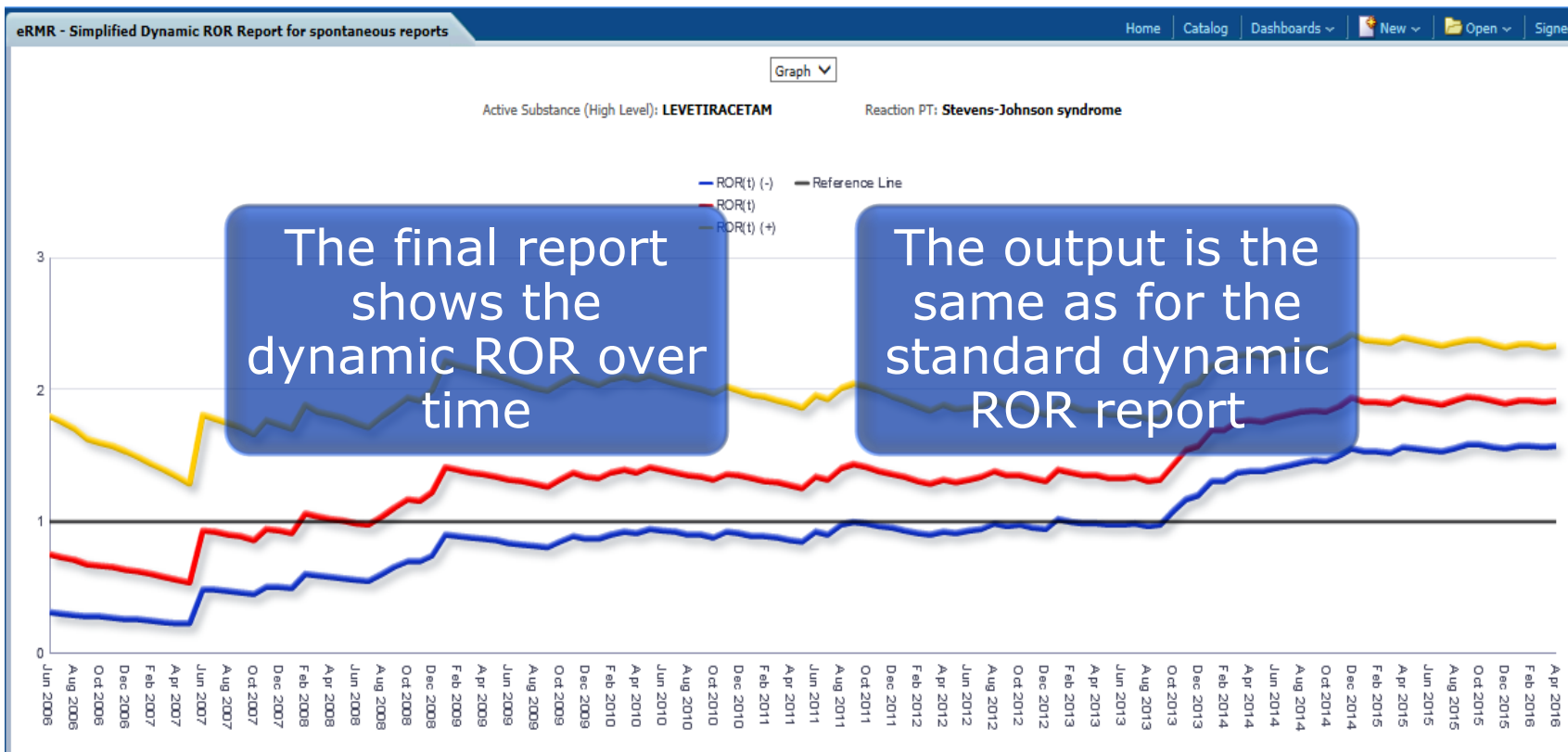
Reaction PT

The threshold for the number of individual cases is set up as 3 by default but can be changed

### 3. Number of Individual Cases

Select the lower bound threshold for the number of Individual Cases.

Number of Individual Cases  $\geq$





# Simplified query – Reaction Monitoring Report



eRMR - Simplified Reaction Monitoring Report

Home Catalog Favorites ▾ Dashboards ▾ New ▾

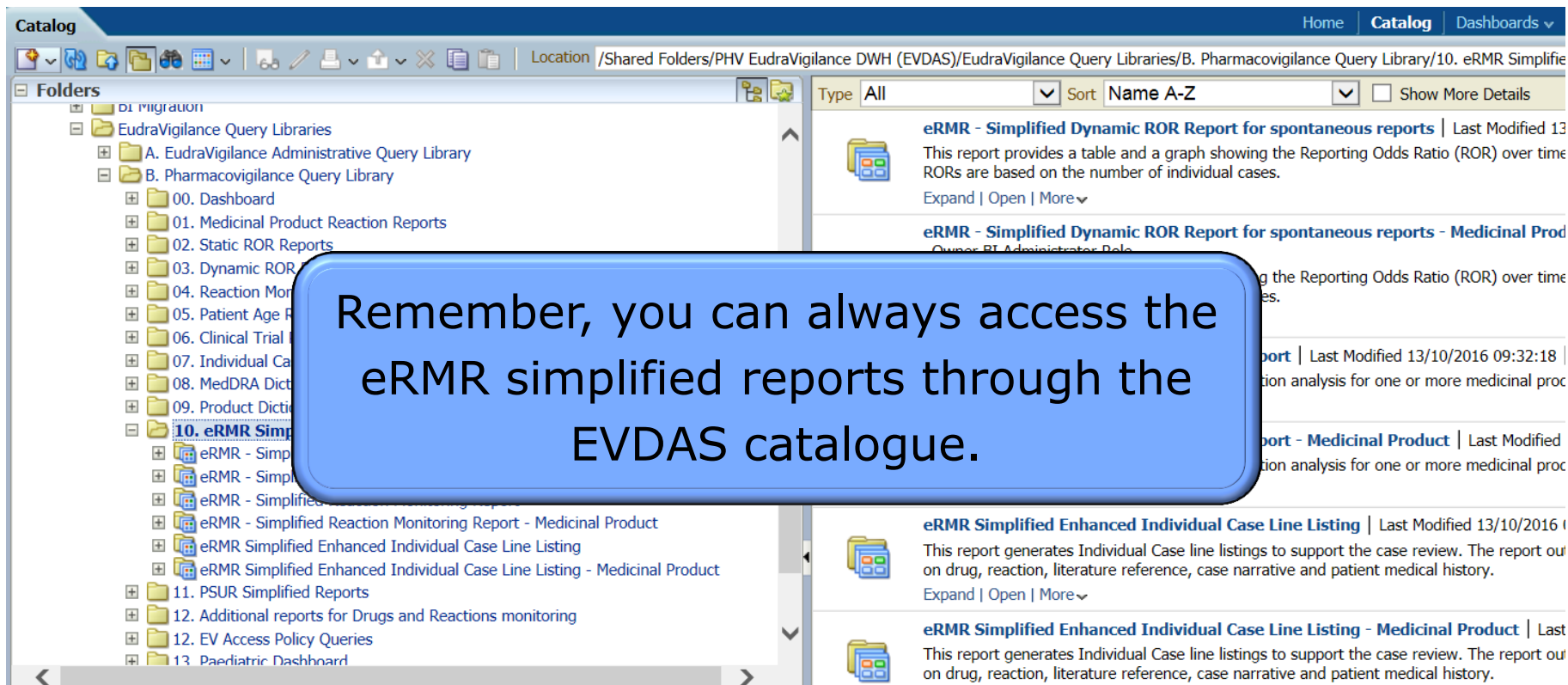
### Report Prompts

- 1. Filter on Active Substance**  
Select an Active Substance (High Level) from the list to filter the report results.  
Form: Composition (High Level)
- 2. Choose a filter on occurrence**  
Choose to filter report by Occurrence Country and/or Occurrence Country. Select the 'OR' button to logically OR both countries.  
Form:    
 AND  OR  
Occurrence Country
- 3. Enter a Registered Arrive Start Date and End Date**  
Registered Arrive Date Between  and

**Warning**  
Please complete all mandatory prompts.

Allows to retrieve an eRMR using a different reference period by completing the 'registered arrive date between'

The data can be also filtered by primary source country and/or occurrence country



The screenshot shows the EVDAS catalogue interface. The left pane displays a tree view of folders under 'EudraVigilance Query Libraries', with '10. eRMR Simplified Reports' selected. The right pane shows details for 'eRMR - Simplified Dynamic ROR Report for spontaneous reports', including a description and options to expand, open, or view more details. A blue callout box is overlaid on the center of the image.

**Remember, you can always access the eRMR simplified reports through the EVDAS catalogue.**



# Individual Case Line Listing



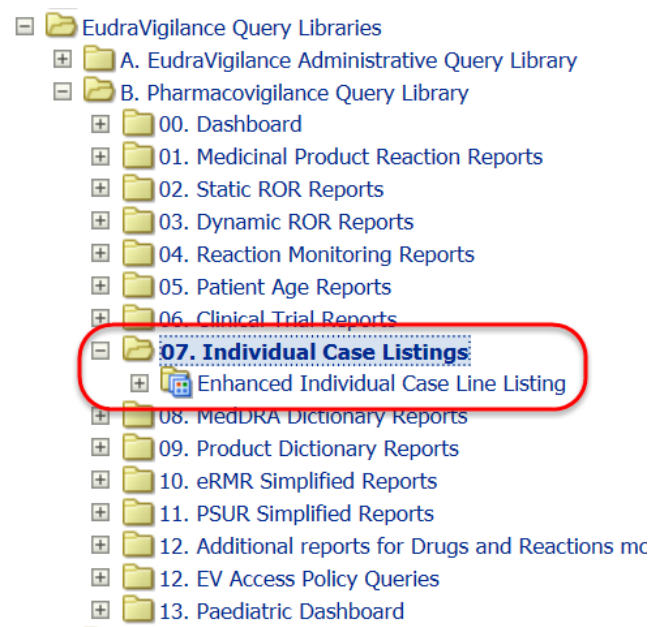
## Enhanced individual case line listing

- This EVDAS report permits a creation of line listing containing details of the individual cases.
  - One of the main tools from EVDAS to support the safety assessment of individual cases.
  - It has been enhanced to include all relevant information.
  - Provides links to the narrative, ICSR forms and E2B forms.
  - It can be accessed from the action links in other outputs within the EVDAS catalogue.



## Enhanced individual case line listing

- The line listing is placed in folder 7 in the pharmacovigilance query library.
- To retrieve a line listing, complete the prompts by using the simplified or advanced filtering criteria



# Enhanced individual case line listing

- The EVDAS outcome of the line listing gives the users the possibility to select specific cases of interest and based on that selection, the ICSR form, the narrative or the E2B form can be downloaded.
- The possibility to select or unselect all the cases also exist.

**Enhanced Individual Case Line Listing**

**View filter details**

Select / Unselect All

**MedDRA reported indication** 
**MedDRA Article 57 authorised indication** 
**MedDR**

Select ICSR	EV Safety Report Identifier	Case Report Number	Sender	Report Type	EV Document Type	Country
<input checked="" type="checkbox"/>	EU-EC-4405235	[REDACTED]	[REDACTED] D	Report from studies	EVCTM ICSR (s)	United States of America

# Enhanced individual case line listing

Remember the line listing can be further filtered by using the filters at the top according to the instructions provided in section “standard filtering criteria, new approach”

## Enhanced Individual Case Line Listing

### View filter details

No

Select / Unselect All

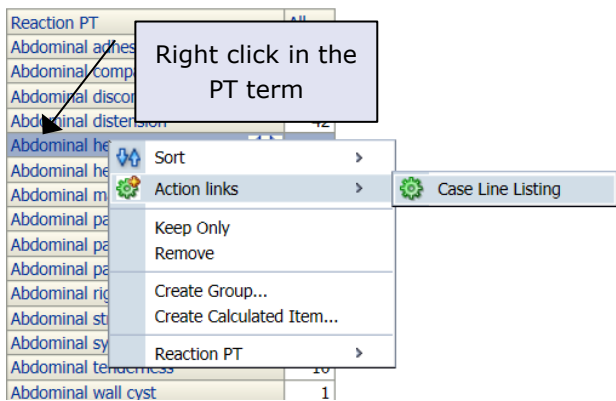
**MedDRA reported indication** All Indications |
 **MedDRA Article 57 authorised indication** All Product Indications |
 **MedDRA Patient Medical History** All Patient Medical History |
 **Route of Administration** All ROA |
 **Pharmaceutical form** All Form |
 **Dose** All Dose |
 **Positive Rechallenge** All Values

All Indications | All Indications | All Product Indications | All Product Indications | All Patient Medical History | All Patient Medical History | All ROA | All ROA | All Form | All Form | All Dose | All Dose | All Values | All Values

Select ICSR	EV Safety Report Identifier	Case Report Number	Sender	Report Type	EV Document Type	Country	Receive Date	Receipt Date	Gateway Date	Initials/height/weight	Age	Birth Date	Sex	Primary Source Qualification	Serious	Seriousness Death	Seriousness Lifethreatening	Seriousness Hospitalisation	Seriousness Disabling	Seriousness Congenital Anomaly	Seriousness Other	Parent/Child	Literature Reference
<input checked="" type="checkbox"/>	EU-EC-4405235	[REDACTED]	[REDACTED]	Report from studies	EVCTM ICSR (s)	United States of America	14 Jun 2010	21 Mar 2011	25 Mar 2011	[REDACTED]	67	[REDACTED]	Female	Healthcare professional (Physician)	Yes	Yes	No	No	No	No	No	No	Not available

# Enhanced individual case line listing

- The line listing can be also retrieved from the action links in other EVDAS outputs including the eRMR



Click on the links to get a line listing

Active Substances	SOCs	PTs	IME / DM	New EV	Tot EV	Tot Fatal	AM OM C	Tot + PC
<b>Gefitinib</b>	<b>Metab</b>	Decreased Appetite		2	245	56	---	<a href="#">1</a>
<b>Gefitinib</b>	<b>Renal</b>	Cystitis Haemorrhagic	Ime	<a href="#">1</a>	<a href="#">51</a>	3	---	<a href="#">2</a>
<b>Gefitinib</b>	<b>Renal</b>	Haematuria		1	72	4	---	<a href="#">2</a>





## Enhanced individual case line listing

- The following slides will explain the different fields and columns provided in the enhanced line listing
  - The screenshots are based on a line listing exported in Excel
  - The listing can be divided in the following sections:
    - ICSR characteristics
    - Patient and reporter characteristics
    - Seriousness criteria
    - Parent-child
    - Literature and documents included
    - Drug list
    - Indication, rechallenge reaction and medical history
    - Narrative, ICSR form, E2B form, reporter and sender comments

## 'Case characteristics'

EV Safety Report Identifier	Case Report Number	Sender	Report Type	EV Document Type	Country	Receive Date	Receipt Date	Gateway Date
EU-EC-6589666	US-MAH-1111111	MAH PRODUCTS	Spontaneous	EVPM ICSR(s)	United States of America	24 Oct 2012	24 Oct 2012	26 Oct 2012
EU-EC-6589321	US-MAH-99999	MAH PRODUCTS LTD	Report from studies	EVPM ICSR(s)	United States of America	06 Sep 2012	06 Sep 2012	20 Dec 2012
EU-EC-7896523	FR-MAH-123456	EEA regulatory authority	Spontaneous	EVPM ICSR(s)	France	30 Aug 2013	27 Aug 2013	03 Sep 2013

Worldwide Unique case identification number

Options:  
Spontaneous, report from studies, other and not available to sender  
  
Report from studies can be either EVCT or EVPM

All EVPM and PSUR are post-authorisation.  
All EVCT and ASR are interventional clinical trials

Primary source country for regulatory purposes

First received by the sender

Date of the last FU

Date of the submission to EV

## 'Patient and reporter characteristics'

As reported or calculated by the system based on date of birth and 1<sup>st</sup> reaction start date

"Healthcare professional" if at least one of the primary sources is a healthcare professional, otherwise "non health professional"

Initials/height/weight	Age	Birth Date	Sex	Primary Source Qualification
I: XX H:n/a W:n/a	26	31-FEB-1973	Female	Healthcare professional (Physician)
I: XX H:n/a W:86.26	67	31-NOV-1995	Female	Non Healthcare professional (Consumer or other Non-Health Professional)
I: UNKNOWN H:n/a W:n/a	69	Not Specified	Male	Healthcare professional (Physician)

## 'Seriousness criteria'

Case level	R3 data: Seriousness criteria provided at reaction level R2 data: displays all the seriousness criteria reported at case level					
Serious	Seriousness Death	Seriousness Life-threatening	Seriousness Hospitalisation	Seriousness Disabling	Seriousness Congenital Anomaly	Seriousness Other
Yes	Not Available	Not Available	Not Available	Yes	Not Available	Yes
Yes	Not Available	Yes	Not Available	Yes	Not Available	Yes
Yes	Yes	Not Available	Not Available	Not Available	Not Available	Not Available

# Enhanced individual case line listing

## 'Parent-child; Literature and documents included'

Parent/Child	Literature Reference	Number of Literature Reference Documents	Number of Documents Held by Sender
Yes	Not available		2
No	Sibaud V, Chevreau C. Abrupt development of Dupuytren's contractures with the BRAF inhibitor vemurafenib. Joint, bone, spine : revue du rhumatisme 2014 Jan 24;:-.	1	
No	Not available		

Literature article if submitted by the sender

Click in the hyperlink to retrieve the actual article

Click in the hyperlink to retrieve the actual documents

## 'Drug list'

Drug characterisation is abbreviated to:  
 Suspect: S, Interacting: I, Concomitant: C, Drug not administered: N

Therapy duration is populated using the field duration of drug administration (G.k.4.r.6a/b) but if that is not available, then it is calculated from the therapy start date (G.k.4.r.4) and therapy stop date (G.k.4.r.5) when those dates are provided in a complete format (DDMMYYYY).

As recorded in the  
 xEVMPD  
 "brand name  
 [substance]"

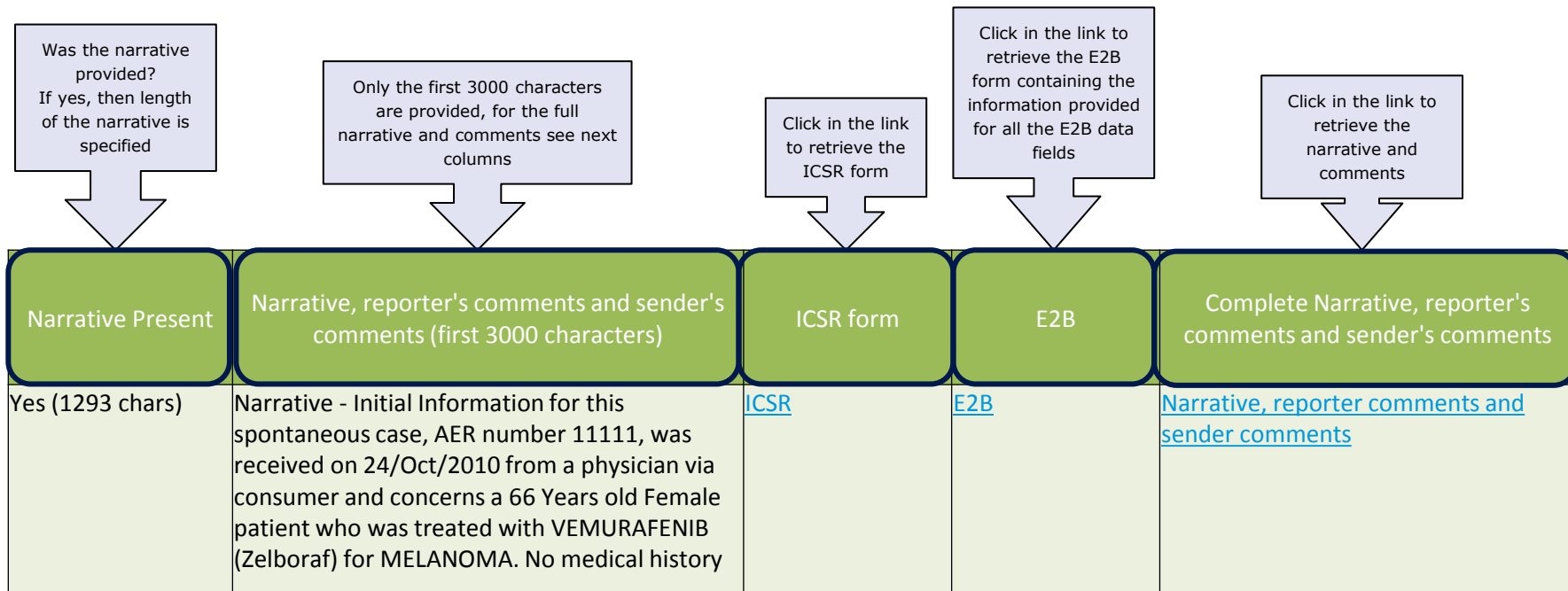
Recorded Drug List	Number of Suspect/ Interacting Drugs	Suspect/Interacting Enhanced Reported Drug List (Drug Char - Indication PT - Action taken with drug - [Start Date - Duration - Dose - Route])	Concomitant/Not Administered Enhanced Reported Drug List (Drug Char - Indication PT - Action taken with drug - [Start Date - Duration - Dose - Route])	Indication(s) PT of the drug of interest as reported in the ICSR
[DEXKETOPROFEN, [VEMURAFENIB]	1	[VEMURAFENIB] (S - Malignant melanoma - Unknown - [01/01/1900 - n/a - n/a - UNKNOWN])	[DEXKETOPROFEN (C - n/a - Not Available - [01/05/2019 - n/a - n/a - UNKNOWN])	VEMURAFENIB - Malignant melanoma

## 'Rechallenge, reaction and medical history'

Drug/reaction combination for which the reaction recurred following drug administration	Positive rechallenge for suspect/interacting drugs	Reaction List PT (Outcome - Date - Duration - Time to onset)	If available, states if the condition was continuing at the time of the report and also comments provided
Zelboraf- neutropenia	Neutropenia (Recovered/Resolved - 01/09/2011 - n/a - 31d)	Actinic keratosis ( Not available - Not available) Pruritus ( Not available - Not available) Prostatic specific antigen increased ( Not available - Not available)	

# Enhanced individual case line listing

## 'Narrative, ICSR form, E2B form, reporter and sender's comments'







# ICSR form



# ICSR Form

- Following the implementation of the ICH-E2B(R3) format in EV, the new ICSR form has been created to provide a readable format for the E2B(R3) data elements.
- The ICSR form replaces the CIOMS I previously retrieved from the database under R2 format.
- The ICSR form does not contain the reported information for all possible E2B data fields but rather a selection of fields considered most relevant for safety assessment.
- When necessary to consult fields not included in the form (e.g MedDRA versions), the E2B form retrievable from the line listing should be consulted.
- In general the data elements are populated in the form in the same way (text, numbers) as they have been reported, sometimes abbreviations are used. Moreover some fields are populated following a calculation of specific fields following the same rules as in the line listing (e.g. therapy duration).
- The ICSR is provided in PDF format.

# Access to the ICSR form

- EVDAS access to the ICSR form is provided from the line listing either by downloading the forms in bulk for the selected cases or by clicking in the link for the specific cases

## Enhanced Individual Case Line Listing

View filter details

No

Select / Unselect All
 [Download Selected ICSR forms](#)
[Download Selected E2B forms](#)
[Download Selected Narrative text](#)

**MedDRA reported indication** [All Indications](#)
**MedDRA Article 57 authorised indication** [All Product Indications](#)
**MedDRA Pat**

[All Indications](#)
[All Indications](#)
[All Product Indications](#)
[All Product Indications](#)
[All Patient Medical History](#)
[All Patient Medical His](#)

Select ICSR	EV Safety Report Identifier	Case Report Number	Sender	Report Type	EV Document Type	Country	Receive Date
<input checked="" type="checkbox"/>	EU-EC-158331	US- 729	PRODUCTS	Spontaneous	EVPM ICSR (s)	United States of America	28 Mar 2005

Narrative, reporter's comments and sender's comments (first 3000 characters)	ICSR form	E2B	Complete Narrative, reporter's comments and sender's comments
Narrative - INITIAL INFORMATION FOR	<a href="#">ICSR</a>	<a href="#">E2B</a>	<a href="#">Narrative, reporter comments and sender comments</a>



## ICSR Form – Format

- The data fields provided in the ICSR form are structured and displayed in a way that facilitates the analysis of the data and provides the user with the key elements to assess the temporal and causal association between the drugs and the ADRs. Fields in the form are grouped into logical sections (e.g. drug, reaction, medical history), so that the user can easily visualise all the available information for a specific topic.
  
- All the ICSR forms follow the same format regardless of cases submitted under ICH E2B(R2) or (R3) but users should consider when analysing the data that legacy cases were migrated to the new ICH E2B(R3) format.



## ICSR Form – Dynamism

- There are some core sections in the form that will always be present. This is to make the form consistent and recognisable by the users; these sections are: general information, Patient, Reaction, Drug and Case narrative.
- The rest of the sections follow a specific dynamism. That means that if no data has been provided for the entire section, that section is not populated in the form. This is to avoid having completely empty sections.
  - Example: If the case is not fatal and therefore no information is provided in the data elements related to death, the section “Death” is not populated.



## ICSR form – Sections

The following slides provide a general overview of the sections populated in the ICSR form.

The data populated in the slides is for the purpose of training and it is not real data.

## General Information

General Information	
Worldwide Unique Case Identification Number	JP-Beta-lactam-3462832
Sender type	Pharmaceutical Company
Sender's Organisation	Beta-lactam antibiotics S.L.
Date Report Was First Received from Source	10/11/2002
Date of Most Recent Information	10/11/2002
Type of Report	Report from study
Primary source country	JP
Study registration number	983200163
Study Name	Open-label trial and randomized controlled, crossover trial of hydrogen-enriched water for mitochondrial pathies
Study Type	Clinical trials
Reporter's qualification	Physician, Consumer
Case serious?	Yes
Medically confirmed?	Yes

Fields on the study details do not appear in the spontaneous cases



## Patient

Patient						
Initials	Date of Birth	Age	Age Group	Sex	Weight	Height
KD	15/11/1972	43 years	Adult	Female	53.25 kg	102 cm





## Reaction/event

As serious criteria is reported as reaction level in R3 format, the cases migrated from R2 will populate the seriousness criteria (reported at case level) for all the reactions reported in the case

Reaction / Event					
MedDRA LLT	Start Date	Stop Date	Duration	Outcome	Seriousness*
Drug reaction with eosinophilia and systemic symptoms	01/08/2002	31/08/2002	30d	not recovered/not resolved/ongoing	death, life threat., hospital., congen.
Mitochondrial encephalomyopathy with lactic acidosis and stroke-like episodes	05/06/1980			not recovered/not resolved/ongoing	death, life threat., congen.
End stage liver disease	20/08/2002			fatal	death, disability, other
B-immunoblastic lymphoma (Kiel Classification) refractory				recovered/resolved	life threat., other

## Drug information

Drug Information							
Rolet	Drug	Start Date	Duration	Dose	Unit		Action taken
S	Avastin 25 mg/ml RECODED	15/01/1992	15d	10 mg/kg			Drug withdrawn
C	Epilim Chrono 200 mg RECODED						Dose reduced

Drug Information							
Info#	Drug	Cumul. dose to 1st Reaction	Pharm. Form	Route of Admin.	Parent Route of Admin.	Batch / Lot #	
7	Avastin	1200 mg	Concentrate for solution for infusion	transplacental	intravenous	AO852369	
	Epilim Chrono 200 mg RECODED	15 g	Prolonged Release Tablets			123654PP	

Additional Information on Drug	
This was an unfortunate medication error	

Dynamic field: The column is not populated if no data is reported

Dynamic field: Only for Parent/child reports

Based on R3 data elements G.k.10.r and G.k.11 (free text) to capture additional information not covered by other section [e.g. 1=counterfeit, 7=Medication error]

## Temporal association

Reaction / Event					
MedDRA LLT	Start Date	Stop Date	Duration	Outcome	Seriousness*
Drug reaction with eosinophilia and systemic symptoms	01/08/2002	31/08/2002	30d	not recovered/not resolved/ongoing	death, life threat., hospital., congen.
Mitochondrial encephalomyopathy with lactic acidosis and stroke-like episodes	05/06/1980			not recovered/not resolved/ongoing	death, life threat., congen.
End stage liver disease	20/08/2002			fatal	death, disability, other
B-immunoblastic lymphoma (Kiel Classification) refractory				recovered/resolved	life threat., other

Drug Information							
Role†	Drug	Start Date	Stop Date	Duration	Dose	Units in Interval	Action taken
S	Avastin 25 mg/ml RECODED	15/01/1992	01/02/1992	15d	10 mg/kg	1 per 2w	Drug withdrawn
C	Epilim Chrono 200 mg RECODED						Dose reduced

## Time to onset and rechallenge

### Calculation of the Time to Onset:

- Difference between the reaction start date (E.i.4) and earliest therapy start date (G.k.4.r.4).
- If the earliest therapy start date is not provided, or it is not provided in a valid format, but there are subsequent therapies valid dates provided, then the calculation of TTO will not take into account those consecutive dates, otherwise the information provided will not be a real TTO.
- If TTO cannot be calculated as above, the value for G.k.9.i.3.1a/b 'Time Interval between Beginning of Drug Administration and Start of Reaction / Event' is used to populate this field.

Time-to-Onset and Rechallenge matrix table

Reaction/Event (MedDRA LLT)	Drug	TTO	Rechallenge?/Reaction recurred?
Drug reaction with eosinophilia and systemic symptoms	Avastin 25 mg/ml	187d	No/NA
	Epilim Chrono 200 mg	186d	Yes/Yes
Mitochondrial encephalomyopathy with lactic acidosis and stroke-like episodes	Avastin 25 mg/ml	125d	Yes/No
	Epilim Chrono 200 mg	140d	No/NA
End stage liver disease	Avastin 25 mg/ml	20d	Yes/No
	Epilim Chrono 200 mg	123d	No/NA
B-immunoblastic lymphoma (Kiel Classification) refractory	Avastin 25 mg/ml	20 hours	Yes/No
	Epilim Chrono 200 mg	123d	No/NA

## Medical history, concurrent conditions and past drug history

Relevant Medical History and Concurrent Conditions					
MedDRA LLT	Start Date	End Date	Continuing	Family History	Comments
Atrial fibrillation	10/10/1995		Yes	Yes	The patient was diagnosed with atrial fibrillation in another hospital and no records are in our files
	04/01/1996		No		The pneumothorax was a spontaneous pneumothorax and the patient had to be intubated for more than a week.
Varicella		05/10/1999	No		It was unknown if the patient had been immunised against the virus
<b>Text for Relevant Medical History and Concurrent Conditions (not including reaction / event)</b> Unclear if the patient had surgeries in the past					

Past drug history				
Drug	Start Date	End Date	Indication	Reaction
Cotrimoxazole	01/08/1994	31/09/1994	Acute pulmonary histoplasmosis	Eye disorder
Acetylsalicylic acid	05/05/1993		Headache	Gastrointestinal disorder

## Death

Data elements D.9.2.r.1b [reported cause of death (MedDRA code)] and D.9.2.r.2 [reported cause of death (free text)] are combined in one cell

Data elements D.9.4.r.1b [autopsy determined cause of death (MedDRA code)] and D.9.4.r.2 [autopsy determined cause of death (free text)]. are combined in one cell

Death			
Date of Death	Reported Cause	Autopsy done?	Autopsy-determined Cause of Death
31/08/2002	Pancreatic cancer	Yes	Pancreatic cancer resectable

## Narrative, literature and comments

### Case Narrative

"Multis post annis respiciebat cum glacie flumen equit tutaquod lectum decurrerent p

When no data is provided, the following verbatim is displayed:  
"Case narrative has not been submitted to EudraVigilance".

no Buendia eratMeminerit ut perspiciantur distant pater eius diei luto Canabrava uiginti domibus limpidae aquae fluminis ripa vaprehistoric. Multa nomina tam recenti re mundi, etseñalarías

### Literature Reference

Mudalel ML, Dave KP, Humme JP, Solga SF. N-acetylcysteine treats intravenous amiodarone induced liver injury. World Journal of Gastroenterology 21: 2816-2819, No. 9, Mar 2015

Trikudanathan G, Arain M, Mallery S, Freeman M, Attam R. Endoscopic necrosectomy in children. Journal of Pediatric Gastroenterology and Nutrition 59: 270-273, No. 2, Aug 2014

Additional documents are included

Article accessible through the Line listing .

### Reporter's Comments

"Gloria statuitque simul uenarum finem castellum ad ostium tabernaculi. Byquinis reales, videre possent gypsy at digitis uenarum inspicere." "Removeatur Science has distantias», super Melquiades. " "Mox homoVides quid usquam gentium domi relicto. " "A meridieDemonstratio magnificantes vitrum cum giganteas incendio miram fecit: multum illiin medio plateae et paleas videlicet radios succenderuntsolar. José Buendía Arcadio qui ad consolacionem inriti magnetesIpse armatus Inuentionem multumque fatigatus noua belli usu. Melquiades rursus temptaret";

### Sender's Diagnosis / Syndrome / or Reclassification of Reaction / Event (MedDRA LLT)

hepatic failure

### Sender's Comments

hepatic failure

## Laboratory test

populated using data elements  
F.r.3.2 [Test Result (value /  
qualifier)] combined with element  
F.r.3.2. [Result Unstructured Data  
(free text)] which is provided in  
brackets.

Laboratory Test					
Test Name	Test Date	Results	Normal High Value	Normal Low Value	Comments
blood pressure	01/01/2009	90/170 mm[Hg]	70 mm[Hg]	140 mm[Hg]	normally the blood pressure well controlled
Drug-induced lymphocyte stimulation test	15/08/2002	positive for bevacizumab			The test was done in another lab
Bilirubin conjugated	25/08/2002		17 umol/L	5 umol/L	
Platelet count	10/08/2002		410 10*9/L	150 10*9/L	maybe this could be a reaction to chemotherapy but we don't have baseline values



## Parent-child

### Information Concerning the Parent for a Parent-Child/Foetus Report

Parent						
Initials	Date of Birth	Age	Weight	Height	Sex	Last Menstrual Period Date
JD	22/06/1937	30 years	65 kg	169 cm	Female	08/08/2001

### Relevant Medical History and Concurrent Conditions of the Parent

MedDRA LLT	Start Date	End Date	Continuing	Comments
Malignant hypertension	01/06/1956		Yes	The mother had uncontrolled hypertension for several years
White coat hypertension	05/06/1980	18/09/1980	No	

### Past Drug History of the Parent

Drug	Start Date	End Date	Indication (MedDRA Term)	Reaction (MedDRA LLT)
Alimta	01/01/2009	01/01/2009	Asbestosis	Breast external beam radiation therapy
Amiodarone tablets Avloclor 250 MG	15/12/1986	15/12/1989	Borderline hypertension	Pericoronitis

### Text for Relevant Medical History and Concurrent Conditions of the parent (not including reaction / event)

Unclear if the parent had surgeries

## Related reports

### Related Reports

<b>Relation</b>	<b>Case Identifier</b>
Duplicate	Hospital La Princesa
Duplicate	Red Cross International
Duplicate	FDA
Linked	GB-London- 987654
Linked	ES-Madrid-789456
Linked	IT-Rome-741258



## ICSR form – training

Full description of the ICSR form is provided in the User Manual:

**EV-G6 - ICSR form**



# Other EVDAS reports



## Patient age reports

- This folder provides reports to generate Medicinal Product/Patient Age reports for one or more medicinal products selected by the user.

## Clinical trial reports

- The reports contained in this folder support queries on clinical trial reports using the Sponsor Study Number or the EudraCT Number.

## MedDRA Dictionary reports

- The reports contained in this folder support the user in browsing the MedDRA dictionary including the Multiaxial MedDRA hierarchy and Standardised MedDRA Queries (SMQs).



## Product Dictionary Reports

- The reports contained in this folder support the user browsing of the medicinal product dictionary

## PSUR simplified reports

- These reports provide the possibility to retrieve line listings and summary tabulations to support the assessment of the PSURs and also contains the active substance grouping report



## Section summary: Pharmacovigilance query library

- **In this section we have covered:**
  - General dashboard
  - Medicinal Product reaction reports
  - Disproportionality analysis and ROR reports
  - eRMR and simplified eRMR reports
  - Individual case Line Listing
  - ICSR Form
  - Other EVDAS reports



- Introduction to this training module
- Introduction to EVDAS
- ICH-E2B(R3) EVDAS implementation
- Standard filtering criteria, new approach
- EudraVigilance administrative query library
- Pharmacovigilance query library
- Summary**





## Summary of EV-M5a

- We are now at the end of the training Module EV-M5a, which provided you the basis for:
  - EVDAS and its role in the EudraVigilance system.
  - New EVDAS catalogue of reports.
  - How to retrieve EV data using the EVDAS interface.
  - Understand the EVDAS changes triggered by the ICH-E2B(R3).
  - Understand the main EVDAS reports and outputs.



## Supporting Documents (1)

<b>Documentation</b>	<b>Description</b>
EV-G2 - EVDAS Report Manual	Detailed guide to support EVDAS users and describing EVDAS functionalities (run, save, export reports in EVDAS) and key EVDAS functionalities. The manual will describe functionality common to every report in EVDAS as well as information specific to individual reports covered in annexes
EV-G1b - eRMR for NCA; structure and key activities in screening	Describe the eRMR as a signal detection tool for signal detection in EV and how to use the tool.



## Supporting Documents (2)

<b>Documentation</b>	<b>Description</b>
Screening for adverse reactions in EudraVigilance	Describes the methods of statistical signal detection in EudraVigilance
EV-G6 - ICSR form	Full description of the ICSR form



## Supporting Documents (3)

<b>Documentation</b>	<b>Description</b>
European Union individual case safety report (ICSR) implementation guide	<ul style="list-style-type: none"><li data-bbox="705 371 1839 589">• This guidance describes the EU-specific requirements to generate a valid ICSR safety and acknowledgment messages in the international format EN ISO ICSR 27953-2:2011 in accordance with ICH E2B(R3) guidance.</li><li data-bbox="705 589 1839 774">• This guidance should be read in conjunction with the ICH E2B(R3) implementation guide and related materials published on the ICH website.</li></ul>



# Where can I get support if needed?

## **EudraVigilance Registration**

- Email - [eudravigilanceregistration@ema.europa.eu](mailto:eudravigilanceregistration@ema.europa.eu)
- Tel - 44 (0) 20 3660 7523

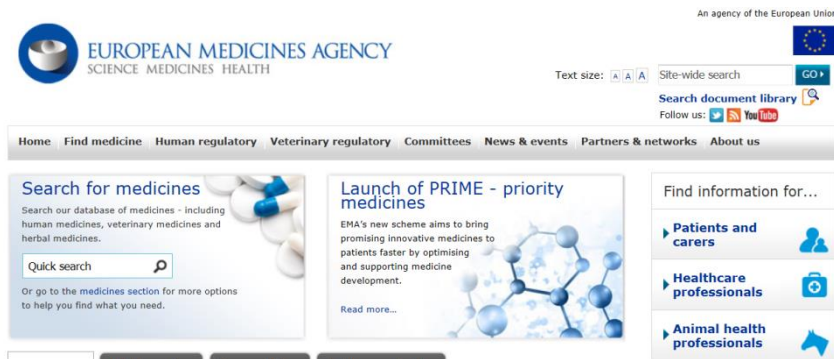
## **EudraVigilance Operations and IT Operations**

- Visit the EMA Service Desk portal: <https://servicedesk.ema.europa.eu>
- Urgent helpline for technical enquiries: +44 (0)20 3660 8520

# Where can I get support if needed?


## Pharmacovigilance operations

- Send a question to EMA (accessible from the EMA homepage)



Web address:  
[http://www.ema.europa.eu/ema/index.jsp?curl=pages/about\\_us/landing/ask\\_ema\\_landing\\_page.jsp&mid=WC0b01ac05806499f0](http://www.ema.europa.eu/ema/index.jsp?curl=pages/about_us/landing/ask_ema_landing_page.jsp&mid=WC0b01ac05806499f0)

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# Feedback

- Please provide us with feedback on this E-learning module and any attendant guidance documents you have viewed by taking the EMA training survey.
- The survey is accessible via [this link](#).

Save a backup on your local computer (disable if you are using a public/shared computer)

## EudraVigilance training feedback survey

Fields marked with \* are mandatory.

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## Acronyms

<b>Acronym</b>	<b>Description</b>
ADR	Adverse Drug Reaction
AMOMO	Abuse, Misuse, Overdose, Medication error and Occupation exposure
CIOMS	Council for International Organizations of Medical Sciences
DEC	Drug Event Combination
DEM	Designated Medical Event
EEA	European Economic Area
EMA	European Medicines Agency





## Acronyms

<b>Acronym</b>	<b>Description</b>
eRMR	Electronic Reaction Monitoring Report
ETL	Extraction, transformation and loading process
EU	European Union
EV	EudraVigilance
EVCT	EudraVigilance Clinical Trials Module
EVDAS	EudraVigilance Data Analysis System
EVDMS	EudraVigilance Database Management System



# Acronyms

<b>Acronym</b>	<b>Description</b>
EVPM	EudraVigilance Post-authorisation Module
EVWEB	EudraVigilance Web Application
Geriatr	Geriatric
GVP	Good Pharmacovigilance Practices
HCP	Healthcare Professional
HLGT	High-Level Group Terms
HLT	High-Level Terms



## Acronyms

<b>Acronym</b>	<b>Description</b>
ICH	International Council for Harmonisation of Technical Requirements for Pharmaceuticals for Human Use
ICSR	Individual Case Safety Report
IFU	Indication for Use
IME	Important Medical Event
IR	Commission implementing Regulation 520/2012
Lit	Literature
MAH	Marketing Authorisation Holder



## Acronyms

Acronym	Description
Med Err	Medication error
MedDRA	Medical Dictionary for Regulatory Activities
MSK	Masked
NASK	Not asked
NCA	National Competent Authority
OBIEE	Oracle Business Intelligence Enterprise Edition
Obs	Observational



## Acronyms

<b>Acronym</b>	<b>Description</b>
Paed	Paediatric
PASS	Post-authorisation Safety Study
PROTECT	Pharmacoepidemiological Research on Outcomes of Therapeutics by a European Consortium
PSUR	Periodic Safety Update Report
PT	Preferred Term
QPPV	Qualified Person for Pharmacovigilance
RC	Rechallenge



# Acronyms

<b>Acronym</b>	<b>Description</b>
ROA	Route of Administration
ROR	Reporting Odds Ratio
SDR	Signal of disproportionate reporting
SMQ	Standardised MedDRA Query
SOC	System Organ Class
Sp	Spontaneous
TTO	Time to Onset



Thank you for your attention



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