

# EUROCAT Data Management Software

*Analyse data*

Statistical surveillance - Clusters

# Introduction

- Accessing the statistical surveillance components of the DMS requires to install the « *R distribution for Eurocat DMS.msi* ». Please, refer to the chapter on [setting up DMS](#).
- DMS performs the **clusters analysis** according to the methodology described in the [Statistical monitoring protocol](#).
- The analysis can run on **one centre at a time, for a selection or all anomaly subgroups**. The following pages shows how the clusters analysis run in DMS.

# Run clusters analysis in the DMS

## Selection criteria

Home

- Manage data
- Import / export
- Analyse data**
- Data configuration
- Help
- About
- License
- System configuration

**Report**  
View and download a predefined report, with various

**Data quality indicators**  
View the report about the quality of the data

**Missing values**  
View the report about completeness of the data

**Web analysis**  
Extract the data for the website analysis

**Statistical surveillance**  
Perform the statistical surveillance on the data

Home Statistical surveillance X

CSV Excel

Centre(s)  
All centres

Anomaly group(s)  
All anomaly groups

Year from

Year to

Other options

All analysis will be performed only on EUROCAT cases that are not spontaneous abortions (<20 weeks of GA)

Trend analysis Cluster analysis

Clusters analysis can run on one or several anomaly groups. Select the appropriate here.

Centre(s)  
All centres *Use the dropdown list to select the centre*

- Saxony Anhalt (DE)
- Sicilia (IT)
- Sicily (IT)
- Sofia (BG)
- South West England (UK)
- Spain Hospital Network (ES)
- Strasbourg (FR)
- Styria (AT)
- Sweden (SE)
- Thames Valley (UK)
- Training
- Training 2

Select one centre only as Clusters analysis runs on one centre at a time

Home Statistical surveillance X

CSV Excel

Centre(s)  
Training

Anomaly group(s)  
All anomaly groups *Use the dropdown list to select the anomaly group*

Year from  
2015

Year to  
2020

Other options

All analysis will be performed only on EUROCAT cases that are not spontaneous abortions (<20 weeks of GA)

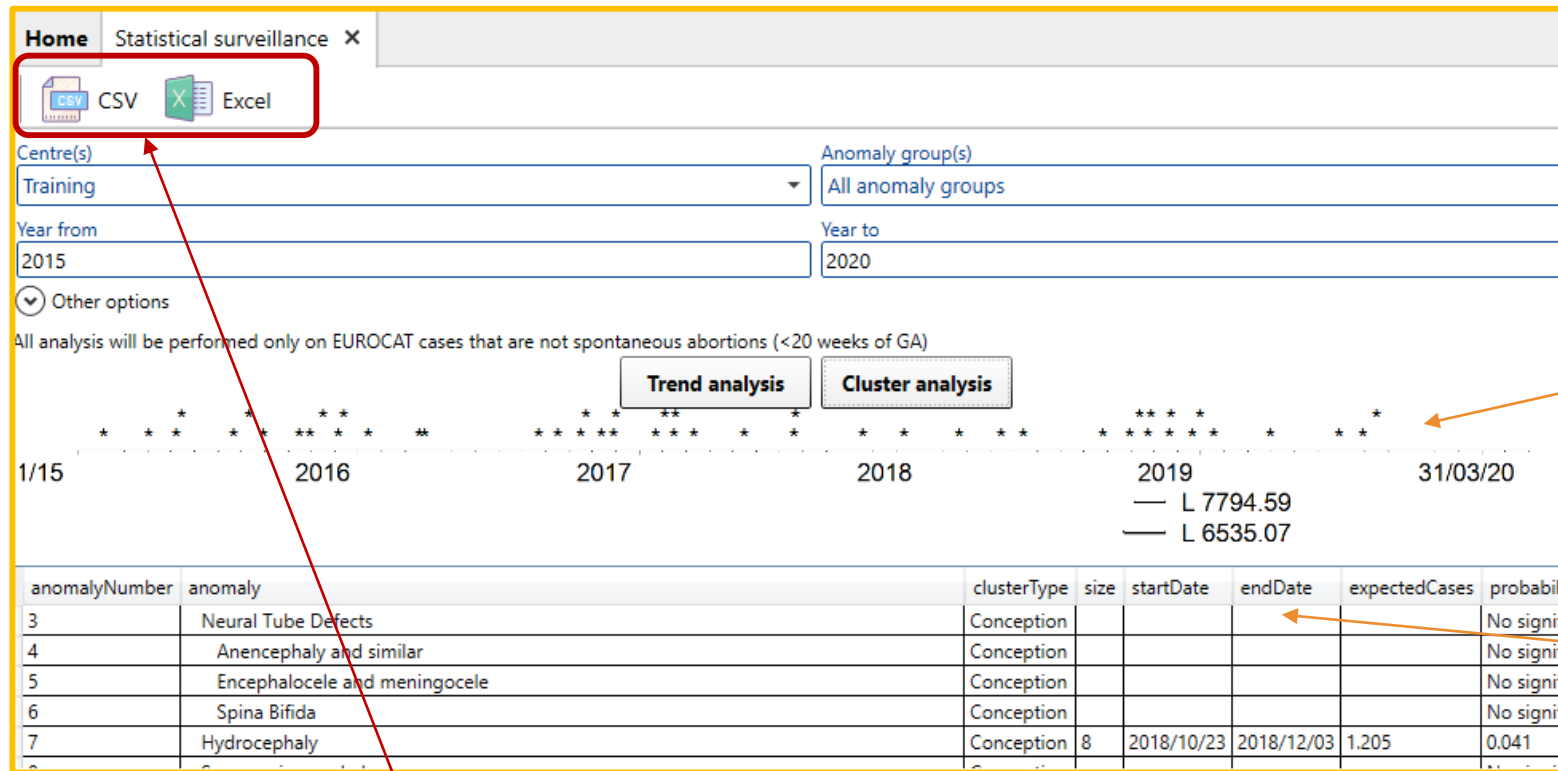
Trend analysis Cluster analysis

Enter the time period of the analysis

Press the button once the correct selection has been done

# Run clusters analysis in the DMS

## Results



The DMS interface displays the results once the analysis has run. They consist in:

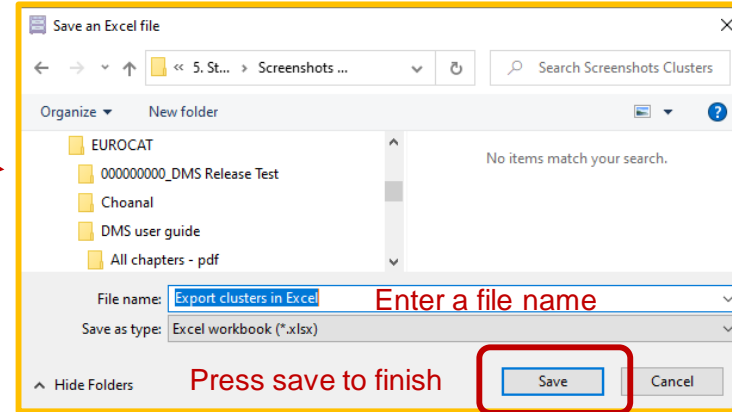
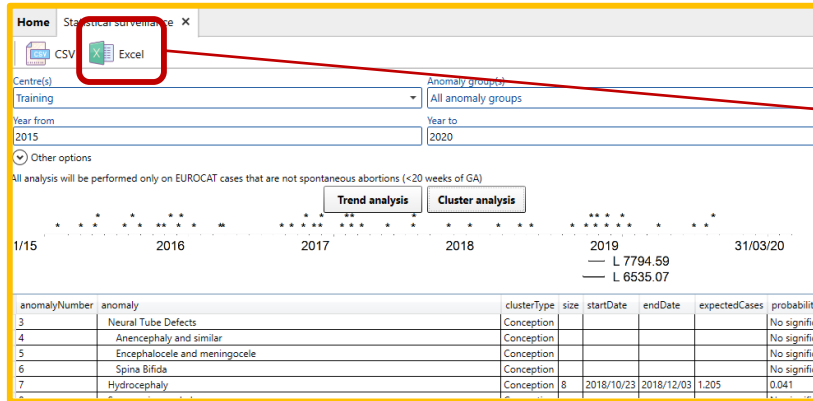
- A timeline over the period covered by the analysis, with the cases plotted by estimated date of conception (or by date of birth if there are too many unknown gestational age).
- A summary table with the characteristics of the clusters potentially detected in an anomaly subgroup.

Results can be exported in csv or Excel:

- csv: only the summary table is exported
- Excel: the export includes, in separate spreadsheets, the summary table as well as the timeline and the list of valid cases in the period of analysis.

# Run clusters analysis in the DMS

## Export results in Excel

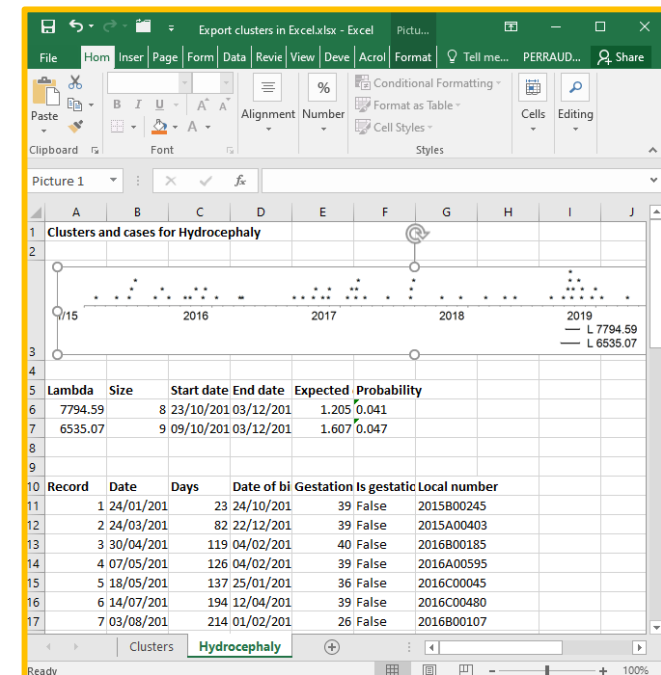


Browse the location where you want to save the file.

The excel file contains a spreadsheet with the summary table:

Record	Date	Days	Date of bi	Gestation	Is gestatic	Local number
10	1 24/01/201	23	24/10/201	39	False	2015B00245
11	2 24/03/201	82	22/12/201	39	False	2015A00403
12	3 30/04/201	119	04/02/201	40	False	2016B00185
13	4 07/05/201	126	04/02/201	39	False	2016A00595
14	5 18/05/201	137	25/01/201	36	False	2016C00045
15	6 14/07/201	194	12/04/201	39	False	2016C00480
16	7 03/08/201	214	01/02/201	26	False	2016B00107

And one spreadsheet for each subgroup where a cluster has been detected, with the timeline and the list of valid cases over the period of analysis:



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