



Data submission to the European Cancer Information System (ECIS): when, what and how

Joanna BARTNICKA, Cristina BOSETTI, Manuela FLEGO

on behalf of the JRC Cancer Information Group

European Commission, Joint Research Centre (JRC), Ispra (VA), Italy

12th and 15th of December 2025

Plan of the webinar

- 1. WHEN? Timing of the submission and data validation process**
2. WHAT? Guidelines for data preparation and submission
3. HOW? Outline of the data validation process and most frequent issues
4. Questions and answers*

*Q&A session will not be recorded

ECIS – European Cancer Information System

The European reference for cancer burden monitoring



- ✓ **Harmonisation** of data and registration practices
- ✓ **Collection, analysis and dissemination** of Europe-wide indicators

Timely and comparable data on cancer burden across Europe

- ✓ **Recording** cancer cases according to recommendations
- ✓ The **reference source** for cancer incidence
- ✓ **Contribution** to the ECIS with data



2025 – a good year for ECIS



April

September

December

ECIS - European Cancer Information System

Home Explore the data Factsheets About ECIS

Home > Data Explorer > Historical data

Data Explorer: Historical data

Observed incidence and mortality over time by cancer entity and demographic variables in European cancer registration areas.

Select an analysis:

- BY REGISTRY: Incidence/mortality
- BY REGISTRY: Incidence/mortality (summary)
- BY CANCER: Incidence/mortality
- BY CANCER: Incidence/mortality (summary)
- BY CANCER: Age-specific incidence/mortality (summary)
- BY AGE: Age-specific incidence/mortality
- BY YEAR: Incidence/mortality trends by age
- BY YEAR: Incidence/mortality trends by period

ECIS - European Cancer Information System

Home Explore the data Factsheets About ECIS

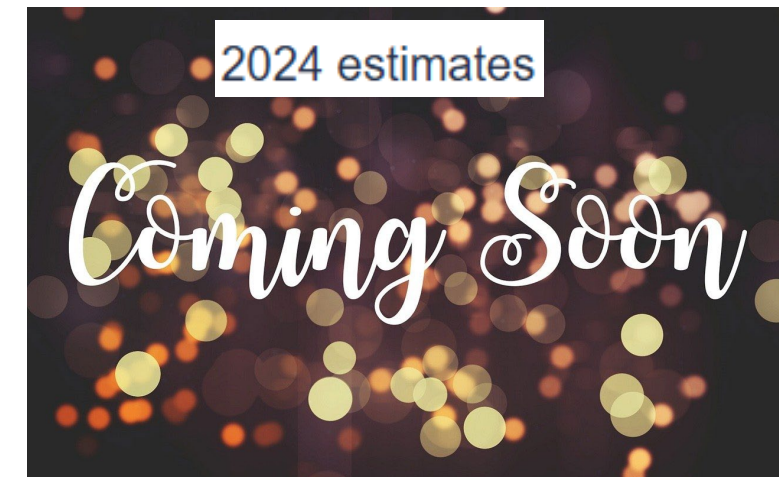
Home > Data Explorer > Childhood data

Data Explorer: Childhood data

Observed childhood incidence over time, by childhood diagnostic group in European cancer registration areas.

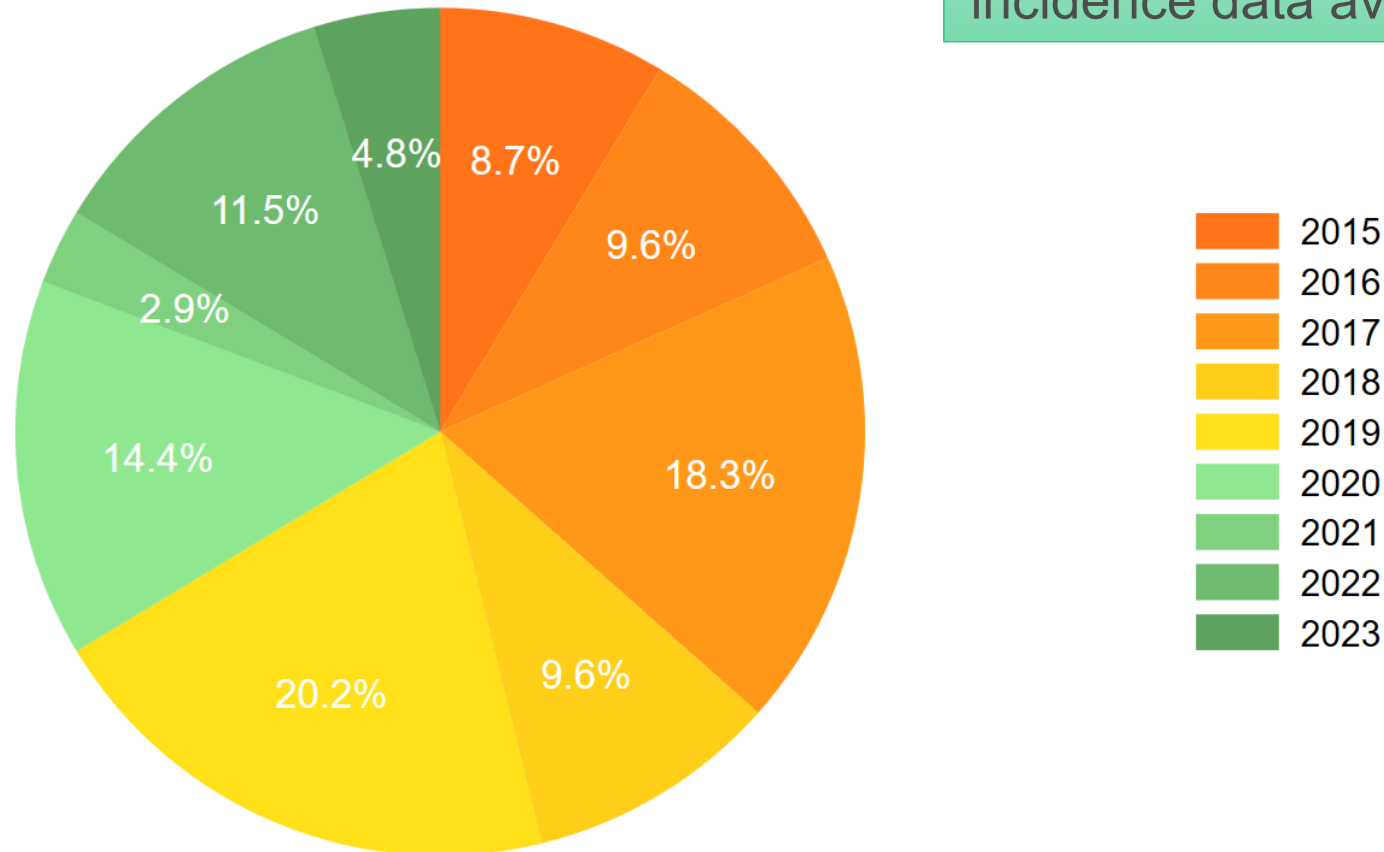
Select an analysis:

- BY REGISTRY: Incidence
- BY REGISTRY: Incidence (summary)
- BY CANCER: Incidence
- BY CANCER: Age-specific incidence (summary)
- BY CANCER: Incidence (summary)
- BY AGE: Age-specific incidence
- BY YEAR: Incidence trends by period



How updated is current ECIS data?

Last incidence year available in ECIS
104 CRs in 2022 data call



For 35 out of 104 CRs (34%), the most recent incidence data available is 2020, or later years

When to submit data to ECIS?

ECIS call for data protocol

2. TIMELINE FOR DATA SUBMISSION

Data submitted by CRs will be used for **annual updates of the historical** data available online in the ECIS web application. Moreover, they are complemented by additional sources, as a baseline for the computation of cancer incidence and mortality predictions.

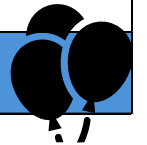
For up to speed contribution to the ECIS project, **submissions received by 31 January of each year will be taken into account for the annual update** of the ECIS indicators.



Running late?
Contact us!
JRC-ENCR@ec.europa.eu

Which is the schedule for 2026?

Action/process	Who	Jan	Feb	Mar	Apr	May	Jun	Jul/Aug	Sep	Oct	Nov	Dec
New ECIS data	CRs	!										
1st phase validation (format, completeness)	JRC&CRs											
2nd phase validation : incidence + survival + stage	JRC											
Correcting data and checking incidence&mortality in ECIS private	CRs											
Applying corrections & finalisation of incidence	JRC											
Publish updated incidence&mortality in ECIS	JRC											
Producing survival&prevalence estimates	JRC											
Checking survival&prevalence estimates in ECIS private	CRs											
Publish updated survival&prevalence in ECIS	JRC											



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Data preparation – Essential tools

Data protocol for the **European Cancer Information System (ECIS)**

Organised by
the European Commission's Joint Research Centre (JRC) and
the European Network of Cancer Registries (ENCR)

November 2025

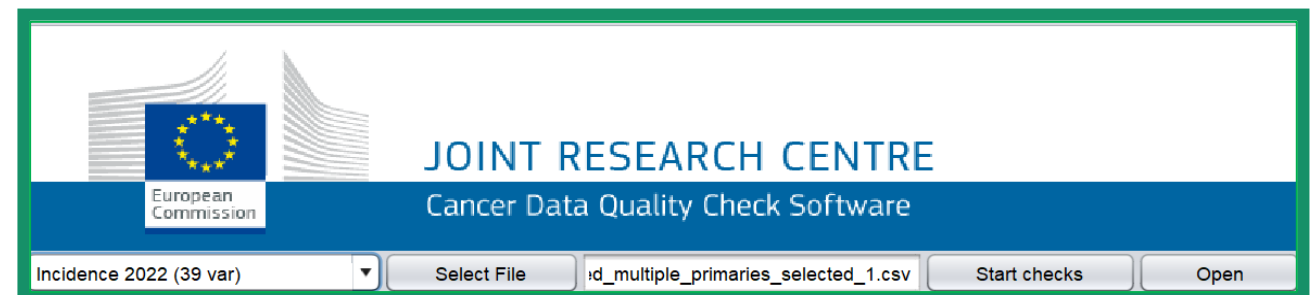
[https://www.enchr.eu/sites/default/files/
Data_call/ECIS-data-protocol_2026.pdf](https://www.enchr.eu/sites/default/files/Data_call/ECIS-data-protocol_2026.pdf)

Data quality checks for validation of
the ECIS database

ECIS Technical report

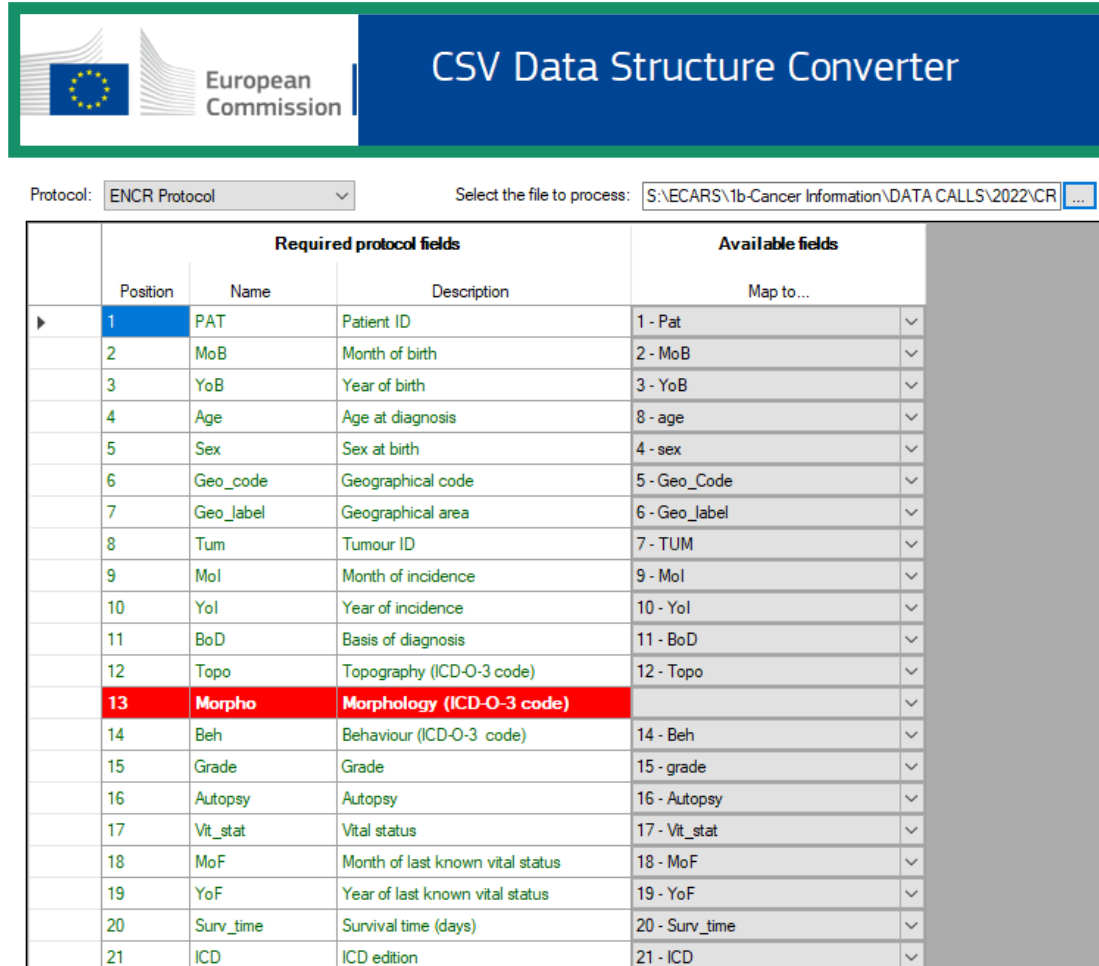
November 2025, Version 1.0

<https://enchr.eu/ENCR-Recommendations>



<https://www.enchr.eu/tools-for-registries>

Data preparation – CSV Data Structure converter “Buddy”



	Required protocol fields			Available fields	
	Position	Name	Description	Map to...	
▶	1	PAT	Patient ID	1 - Pat	▼
	2	MoB	Month of birth	2 - MoB	▼
	3	YoB	Year of birth	3 - YoB	▼
	4	Age	Age at diagnosis	8 - age	▼
	5	Sex	Sex at birth	4 - sex	▼
	6	Geo_code	Geographical code	5 - Geo_Code	▼
	7	Geo_label	Geographical area	6 - Geo_label	▼
	8	Tum	Tumour ID	7 - TUM	▼
	9	MoI	Month of incidence	9 - MoI	▼
	10	YoI	Year of incidence	10 - YoI	▼
	11	BoD	Basis of diagnosis	11 - BoD	▼
	12	Topo	Topography (ICD-O-3 code)	12 - Topo	▼
	13	Morpho	Morphology (ICD-O-3 code)		▼
	14	Beh	Behaviour (ICD-O-3 code)	14 - Beh	▼
	15	Grade	Grade	15 - grade	▼
	16	Autopsy	Autopsy	16 - Autopsy	▼
	17	Vit_stat	Vital status	17 - Vit_stat	▼
	18	MoF	Month of last known vital status	18 - MoF	▼
	19	YoF	Year of last known vital status	19 - YoF	▼
	20	Surv_time	Survival time (days)	20 - Surv_time	▼
	21	ICD	ICD edition	21 - ICD	▼

To prepare data before using the QCS (for incidence data only)



<https://www.encr.eu/tools-for-registries>

Data submission – Essential tools

Data JRC portal



<https://portal-encr.jrc.ec.europa.eu/>

Data call questionnaire

Call for data questionnaire for European population-based cancer registries

&

Fields marked with * are mandatory.

Call for data questionnaire for European population-based cancer registries

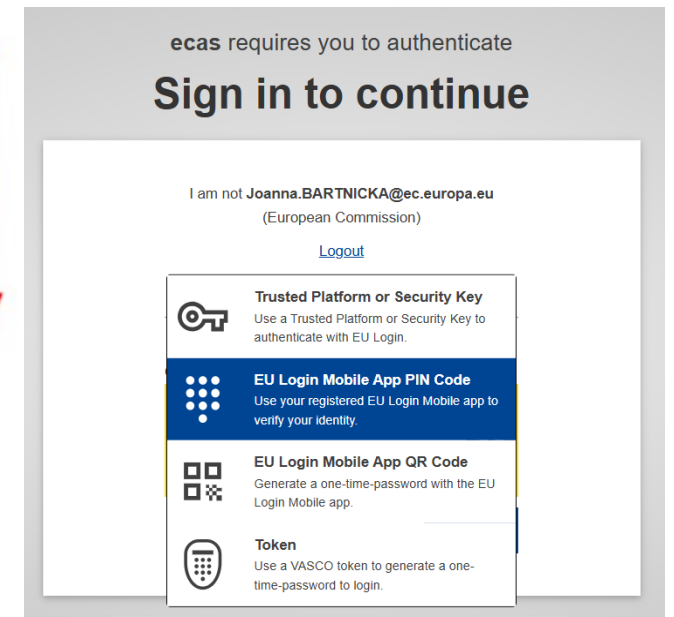
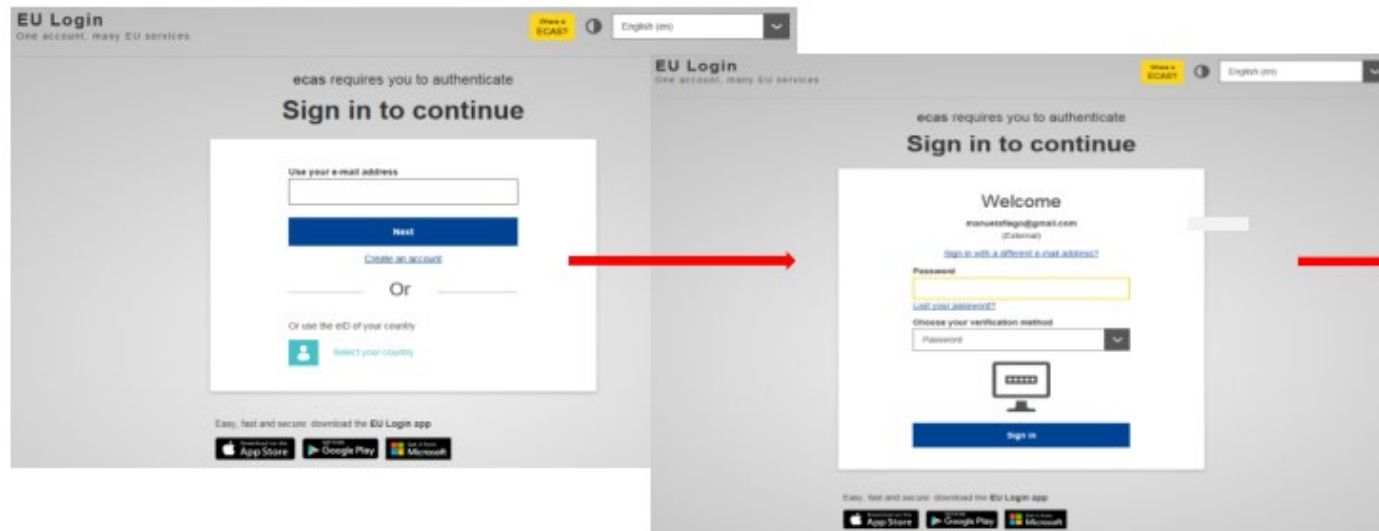
https://ec.europa.eu/eusurvey/runner/ECISD_ataCall2026

Submission completed

Data submission – JRC Portal access

ECAS account & EU Login Mobile App necessary

2nd identity verification step is required



<https://portal-encr.jrc.ec.europa.eu/>

✓ Portal manual:

https://encr.eu/sites/default/files/Data_call/User_Manual_Navigation_Portal_JRC-ENCR2025.pdf

Data submission – JRC Portal

EUROPEAN COMMISSION

European Commission > ENCR Portal > Home

Network: ENCR Data calls Studies Data Import Communication Form Users Registries

Submission Details

[← BACK](#)

Summary

Date of Creation 31/01/24 18:59	Date Closure 31/01/24 19:08	Closed By Monica Lanzoni	Registry EUITVARAA9 Varese Tumor Registry
---	---------------------------------------	------------------------------------	--

Notes

Good afternoon. I have uploaded an updated file for the Registry of Varese including revised historical data. We will send a detailed communication to the JRC-ENCR Secretariat explaining the differences with the previous submission. Best regards, Monica Lanzoni

Details

Files received File repository Actions checklist Feedback

Original files submitted by the registry

#	File type	Filename	Size	Version	Submission Date	Submission Author	Notes
1	FEEDBACK	EUITVARAA9_FEEDBACK ANSWERS.zip	406.89 Kb		20/12/24 14:27	Monica Lanzoni	
2	INCIDENCE	JRC_EUITAVA INCIDENCE 1976_2015_2024.csv	25.25 Mb	1	31/01/24 19:08	Monica Lanzoni	

Report important information about the data in "Notes"

<https://portal-encr.jrc.ec.europa.eu/>

Data submission – JRC Portal

EUROPEAN COMMISSION

European Commission > ENCR Portal > Home

Network: ENCR Data calls Studies Data Import Communication Form Users Registries

List of Submissions (Registry: [redacted] - ECIS Data Call 2026)

BACK DOWNLOAD CSV

CANCER REGISTRY INFORMATION

Cancer registry information
Last update: 05/12/2025 12:30

Cancer registry information

BACK

Contact information

Director of CR: First Name	Last Name	Email
<input type="text"/>	<input type="text"/>	<input type="text"/>
Other contact person in CR - First Name	Last Name	Email
<input type="text"/>	<input type="text"/>	<input type="text"/>

Registry data

Internal ENCR code in ENCR database	Name in ENCR database
<input type="text"/>	<input type="text"/>
Official CR name	
<input type="text"/>	
Department	Institution
<input type="text"/>	<input type="text"/>
Postal address (street and number)	Postal code
<input type="text"/>	<input type="text"/>
City	Country
<input type="text"/>	<input type="text"/>
Registry website URL	Registry Email
<input type="text"/>	<input type="text"/>
Registry type	(If "Other", please specify)
<input type="text"/>	<input type="text"/>
Ages collected	(If "Childhood", please specify the range)
<input type="text"/>	<input type="text"/>
The cancer registry collects information on	(If "Specific top.imorph.", please specify)
<input type="text"/>	<input type="text"/>
Geographical coverage of the Registry	
<input type="text"/>	

Before uploading data files, please check that the information about the cancer registry is correct

Data submission – JRC Portal

EUROPEAN COMMISSION

European Commission > ENCR Portal > Home

Network: ENCR Data calls Studies Data Import Communication Form Users Registries

List of Submissions (Registry: [REDACTED] - ECIS Data Call 2026)

← BACK DOWNLOAD CSV

Cancer registry information
Last update: 05/12/2025 12:30

[CANCER REGISTRY INFORMATION](#)

[ONLINE QUESTIONNAIRE](#)

Link to the Data Call Questionnaire (EUSurvey)

What's new in 2026?

- ✓ Requirement of **mortality statistics** for national registries at **subnational/regional level**
- ✓ Requirement for using **the same patient and tumour identifiers** in yearly ECIS submissions (**Variables PAT and TUM**)
- ✓ Extension of the **non-melanoma skin cancer** cases to be submitted (SCC, **BCC** and other skin cancers with **behaviour 3**) (**NMSC WG**)
- ✓ Codes for **gastro-entero-pancreatic neuroendocrine tumours** updated according to the new cancer definitions in ECIS
- ✓ Specifications regarding **stage** at diagnosis: indicate with a “y” if **TNM** values are reported **after neoadjuvant therapy** (**Add y before (cp)**
T,N,M values - Variable Stage → tos=ypS)

New indicators in ECIS



- **Survival & Prevalence**

Objective 1. CancerWatch JA, 2025-2028

Improvement of survival and prevalence indicators in the ECIS. Due to differences in data availability and quality between the PBCRs, the update of the survival and prevalence statistics based on recent data is long due. In 2024, EURO CARE projected prevalence statistics of cancer in Europe in 2020 based on incidence data up to the year 2012⁸. The survival estimates in ECIS are based on incidence data until 2007. In contrast, the Nordic registries released statistics through 2022 in September 2024, and are adding on 2023 data as they become available for each country. More timely statistics for Europe combined is tenable. Closely aligned with the JRC and the ENCR Steering Committee (which we combined denote as JRC-ENCR), a detailed plan will be made to improve not only incidence timeliness, but also to include survival and prevalence statistics into the ECIS based on recent data, which is to be updated on a regular basis.

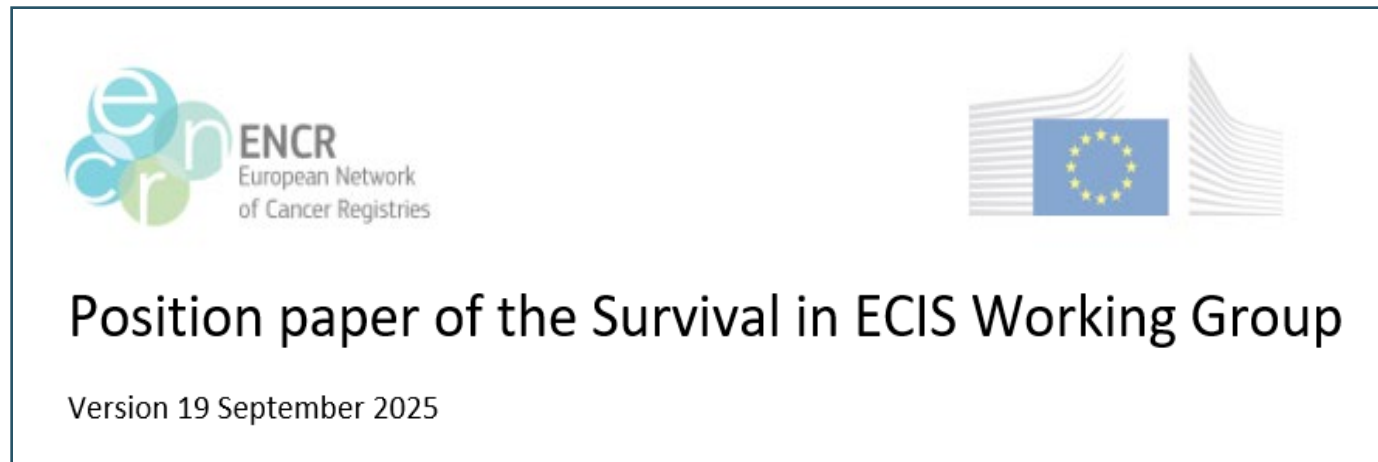
- **Stage & Treatments**

Additional objectives. CancerWatch JA, 2025-2028

These deep-dive analyses are crucial for improving the comparability of PBCR data, in particular beyond the basic data items currently used in ECIS to present cancer incidence. By setting up and analyzing specific use cases and evaluating the availability and comparability of geographic (NUTS), **stage and treatment variables**, we aim to generate actionable recommendations for future improvements. Additionally, this work will help enhance the visibility of the participating PBCRs within the ECIS framework.

ECIS Working Group on survival

→ Activity period: from June 2024 to September 2025

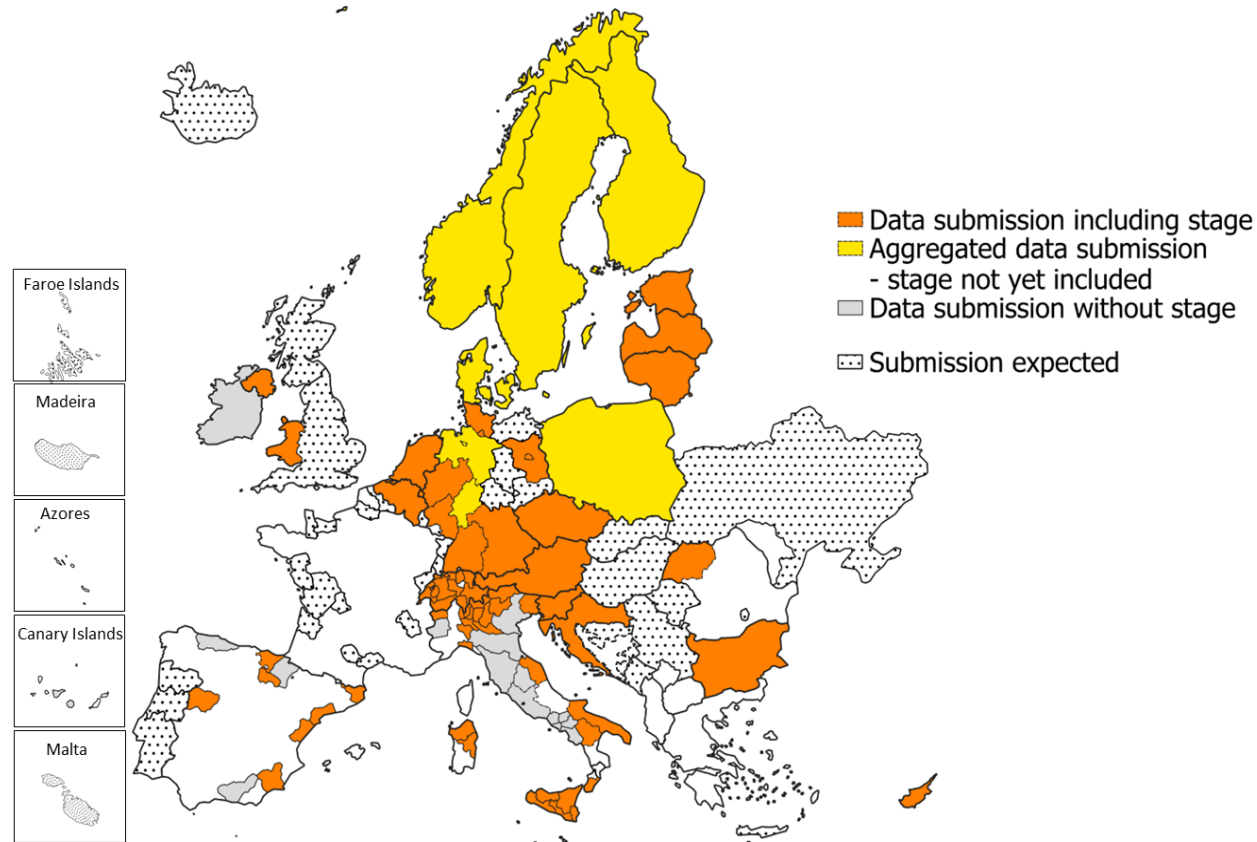


The outcome of the Survival in ECIS WG lays the groundwork for CancerWatch activities



✓ Inclusion of survival in ECIS in 2026

Stage at diagnosis in ECIS



Finalized an analysis to **map availability and completeness** of information on **stage at diagnosis** from 2022 submitted data (gastric, colorectal, lung, breast, cervix, and prostate)

- ✓ Scientific publication drafted
- ✓ Inclusion of stage in ECIS in 2027

Treatment in ECIS



ENCR Recommendations

2025

Treatment Data Recording (phase I)

Version 27-09-2024

Defining Treatment and Types of Treatments.....

1. SURGERY
2. RADIOTHERAPY
3. SYSTEMIC THERAPY.....
4. STEM CELL TRANSPLANTATION
5. REASON FOR NO TREATMENT

Ongoing analysis to **map availability and completeness** of treatment information from 2022 submitted data

ENCR recommendations



[Home](#) | [The ENCR](#) ▾ | [Activities](#) ▾ | [News & Events](#) ▾

ENCR Recommendations

Marked differences in practice exist between cancer registries, example, with respect to data sources, definitions and process methods.

Title	Year of Publication
Data quality checks for validation of the ECIS database	2025
Survival in ECIS	2025
Treatment Data Recording	2025
Recording Recurrence, Progression and Transformation Episodes	2025
Central Nervous System Tumours	2024
Standard dataset	2023
Basis of Diagnosis	2022

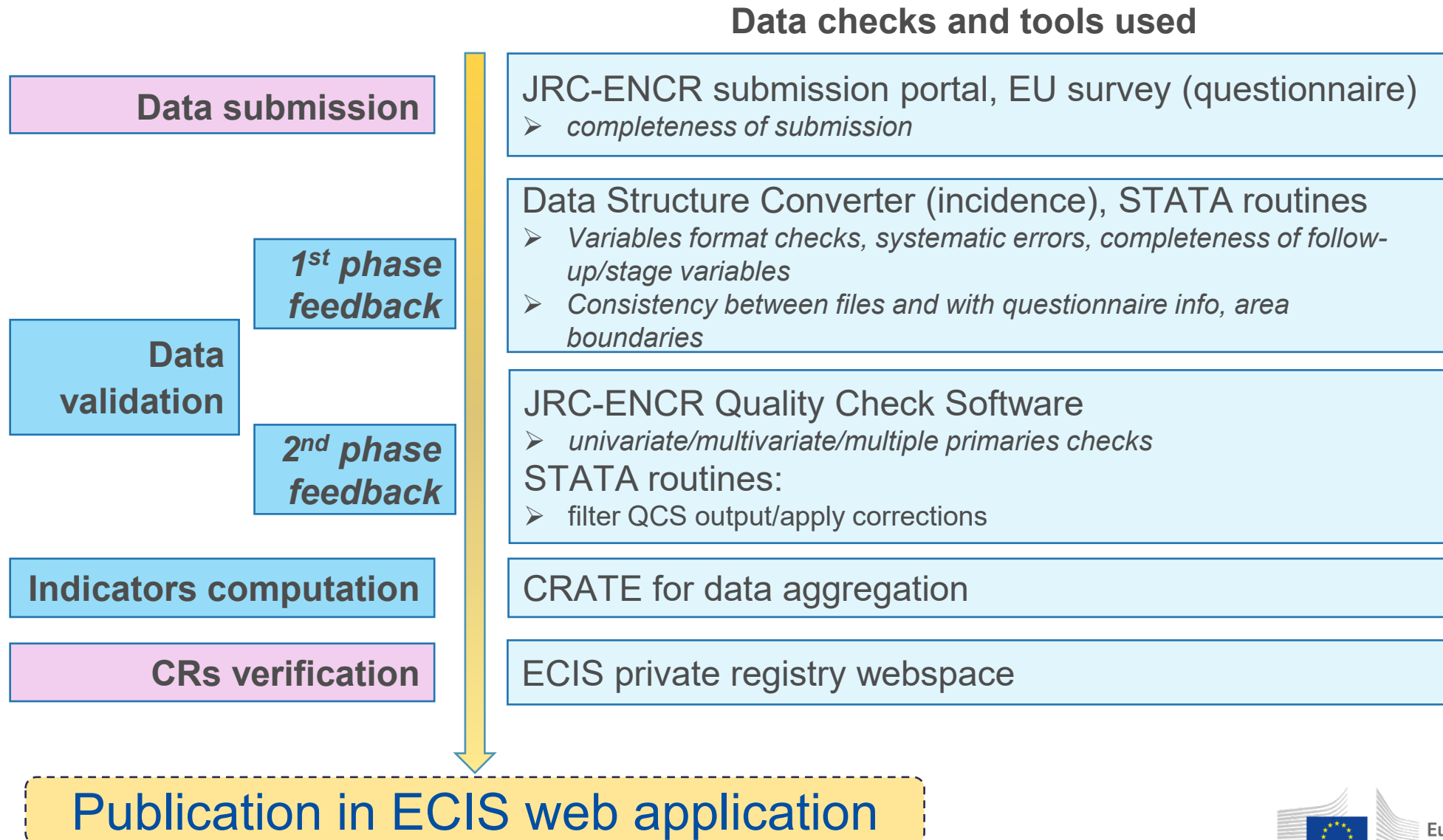
<https://www.encr.eu/ENCR-Recommendations>

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Data validation workflow



1st & 2nd phase feedback

WHERE? JRC portal <https://portal-encr.jrc.ec.europa.eu/>

1. Open your submission

ID	Status	Creation Date	Sent Date	Submitted Files	Actions
# 359	SENT	17/09/2024 14:33	17/09/2024 14:36	Incidence Life Population	

Total Submissions: 1

2. Check JRC email

2nd phase feedback

1st phase feedback

Attach.	Subject	From	Date	Type	Actions
	ECIS Data Call – Report on internal consistency of data submitted on 02/12/2022 (registry code: CRCODE)	Network admin	27/11/2025 16:06	Feedback	Reply
	ECIS data call 2022 - Format validation feedback	Network admin	26/11/2025 18:34	Feedback	Reply

3. Download JRC feedback reports and files

4. CR Reply

1st phase feedback

WHAT? Email & PDF file with specific sections for:

- **Format feedback for incidence (all submitted files):**
 - Compliance with ECIS Data Call Protocol and QCS
 - Number of records by calendar year/sex/age group
 - Duplicates (PAT & TUM IDs) in the incidence file
 - Consistency between files and questionnaire
- **Follow-up variables completeness:**
 - *% of missing/unknown & out of range values*
- **Stage availability & variables completeness:**
 - *TNM stage for selected cancer entities by calendar period, and % of missing/out of range values*

2nd phase feedback

WHAT? Email & Zip archive with:

- Internal consistency report: **TO BE REVIEWED**
- Excel file with **compulsory revisions** required: **TO BE REVIEWED**
- Excel file with **additional warnings** and some corrective actions proposed by the JRC: NOT MANDATORY TO REVIEW IT
- Excel file with outcomes of automated selection of multiple primary tumours: ONLY FOR YOUR INFORMATION
- Appendix to the report with additional inconsistencies & quality indicators for the submitted dataset: ONLY FOR YOUR INFORMATION
- Instructions to access the ECIS private webpage

2nd phase feedback

WHAT? Internal consistency report: summary tables

Table 4. Summary of errors and crucial warnings to be reviewed by the Cancer Registry

Code	Description	Count
E-SETO	Invalid sex and topography combination (Tab.3 JRC technical report)	1
W-MOTO	Morphology + Topography unlikely	179
All	Total errors and crucial warnings to be reviewed	180

Table 3. Summary of W-MOTO warnings to be reviewed.

Description	Number
Probable metastasis, exclude or change morphology/topography	13
Review topography or morphology, otherwise JRC will set topography to C809	166
W-MOTO total to be reviewed	179

Table 5. Summary of additional warnings to be checked by the Cancer Registry

Code	Description	Count
W-MOBE	Review invalid combination of morphology and behaviour	1
W-MOTO	Morphology + Topography unlikely (tab.8 JRC technical report)	200
All	Total additional warnings to be checked	201

Not compulsory for revision

Table 7. Summary of actions proposed by the JRC to be taken on records with multiple primary tumour warnings.

JRC action	Number	%
Warning for multiple primary tumours: records selected for inclusion	5275	0.68
Warning for multiple primary tumours: records selected for exclusion	1793	0.23
Records without warnings for multiple primary tumours	772552	99.09
Total records in the cleaned dataset	779620	100.00

Only for information

2nd phase feedback

WHAT? Excel file sent by JRC: **compulsory revisions**

Extra columns

Incidence file format

CR_checked	Error_code1	Proposed_solution1	JRC_action	CR_decision	PAT	MoB	YoB	Age	Sex	Geo_code	Topo	Morpho	Beh	etc...
	report_E-SETO	Review invalid sex and topography combination; otherwise JRC will correct sex according to Tab.3 JRC technical report 2024	Modify as proposed		1	...	...	...	2	...	C637	9052	3	...
	report_W-UNKN	Check unknown values for variable Sex	Exclude if not corrected			...	...	...	9	...	C187	8140	3	...
1	report_W-MOTO	Review topography or morphology, otherwise JRC will set topography to C809	Include values submitted by Cancer Registry	Include values submitted by Cancer Registry	3	...	...	...	2	...	C779	9140	3	...
	report_W-MOTO	Probable metastasis, exclude or change morphology/topography	Exclude if not corrected		4	...	...	...	2	...	C490	8020	3	...

Drop down menu

Previously checked?
No further action if new dataset is updated with last corrections

Accept
JRC action?
Leave blank

Change
JRC action?
Select pre-defined

Include values submitted by Cancer Registry
Exclude if not corrected

2nd phase feedback

WHAT TO DO? Excel file revised by CR: compulsory revisions

Examples of **correct CR feedback**: select pre-defined CR actions, modify relevant values

1	CR_checked	Error_code1	Proposed_solution1	JRC_action	CR_decision	PAT	...	Sex	...	BoD	Topo	Morpho	Beh	etc...	
		report_W-UNKN	Check unknown values for variable Sex	Exclude if not corrected		1	...	9	...	7	C187	8140	3	...	👍
2	CR_checked	Error_code1	Proposed_solution1	JRC_action	CR_decision	PAT	...	Sex	...	BoD	Topo	Morpho	Beh	etc...	
		report_W-UNKN	Check unknown values for variable Sex	Exclude if not corrected	Include values submitted by Cancer Registry	1	...	2	...	7	C187	8140	3	...	👍
3	CR_checked	Error_code1	Proposed_solution1	JRC_action	CR_decision	PAT	...	Sex	...	BoD	Topo	Morpho	Beh	etc...	
		report_W-MOTO	Review topography or morphology, otherwise JRC will set topography to C809	Modify as proposed	Exclude if not corrected	1	...	1	...	7	C490	8070	3	...	👍
4	CR_checked	Error_code1	Proposed_solution1	JRC_action	CR_decision	PAT	...	Sex	...	BoD	Topo	Morpho	Beh	etc...	
		report_W-MOTO	Review topography or morphology, otherwise JRC will set topography to C809	Modify as proposed	Include values submitted by Cancer Registry	1	...	1	...	5	C349	8042	3	...	👍

Pre-defined actions

Change values

2nd phase feedback

WHAT TO DO? Excel file revised by CR: **compulsory revisions**

Examples of **incorrect CR feedback**: input free text for CR decision, add extra columns, etc.

Example 1

incorrect

Input free text

CR_checked	Error_code1	Proposed_solution1	JRC_action	CR_decision	PAT	...	B	Top	Mor	Beh	etc
	report_W-MOTO	Review topography or morphology, otherwise JRC will set topography to C809	Modify as proposed	INCLUDE WITH TOPO C761	1	...	7	C383	8041	3	...



correct

CR_checked	Error_code1	Proposed_solution1	JRC_action	CR_decision	PAT	...	B	Top	Mor	Beh	etc
	report_W-MOTO	Review topography or morphology, otherwise JRC will set topography to C809	Modify as proposed	Include values submitted by Cancer Registry	1	...	7	C761	8041	3	...



Pre-defined actions

Example 2

CR_checked	Meaning	Error_code1	Proposed_solution1	JRC_action	CR_decision	PAT	...
	Please delete records highlighted in red because as these have been reviewed and don't form part of the submission	report_W-MOTO	Review topography or morphology, otherwise JRC will set topography to C809	Modify as proposed	⌵	1	...



Add extra columns



Exclude if not corrected

2nd phase feedback

WHAT? Excel file sent by JRC: **additional revisions/multiple primaries**

Additional warnings: **not compulsory for revision**

CR_checked	Error_code1	Proposed_solution1	JRC_action	CR_decision	PAT	...	Age	...	BoD	Topo	Morpho	Beh	...
	report_W-AGMT	Review unlikely or rare combinations of age and tumour type	Include as submitted		1	...	52	...	7	C421	9826	3	...
	report_W-BDMS	BoD=6 not allowed with HM tumours, JRC will correct it to BoD=7	Correct and include		2	...	74	...	6	C779	9680	3	...
	report_W-MOTO	Review morphology and topography combination not compliant with Table 8 JRC Technical Report	Include values submitted by CR		3	...	33	...	7	C762	9100	3	...



Drop down menu

Include values submitted by Cancer Registry



Multiple primaries selection: **only for information**

CR_checked	JRC_action	CR_decision	PAT	...	Tum	Mol	YoI	BoD	Topo	Morpho	Beh	...
	Include		1	...	1	2	1992	7	C440	8090	3	...
	Exclude		1	...	2	11	2010	7	C760	8090	3	...
	Exclude		2	...	1	1	2009	7	C760	8090	3	...
	Include		2	...	2	1	2009	7	C444	8090	3	...
..

2nd phase feedback

WHERE/HOW to reply? JRC portal <https://portal-encr.jrc.ec.europa.eu/>

ENCR - Submission details

Attach.	Subject	From	Date	Type	Actions
	ECIS Data Call – Report on internal consistency of data submitted on 02/12/2022 (registry code: CRCODE)	Network admin	27/11/2025 16:06	Feedback	

JRC feedback

1. CR reply

Reply to "ECIS Data Call – Report on internal consistency of data submitted on 02/12/2022 (registry code: CRCODE)"

[← BACK](#)

ECIS Data Call – Report on internal consistency of data submitted on 02/12/2022 (registry code: CRCODE)

Date: 27/11/2025 16:06

Type: Feedback


Attachment: CRCODE__VALIDATION_2ND_PHASE.zip

Body:

Test 2nd phase

Type: Feedback

Subject: Re: ECIS Data Call – Report on internal consistency of data submitted on 02/12/2022 (registry code: CRCODE)

Attached file:  _CRCODE_INCIDENCE_revisions.zip [Browse ...](#)

Body: CR text.....

2. CR message

3a. Attach files with your corrections: **ZIP archive** to send multiple files (compulsory + additional + MPs)

3b. No files attached: approve preliminary indicators and publication in ECIS

2nd phase feedback

HOW to reply? **Forgot attach zip archive to your reply?** 🤔

1. Contact JRC-ENCR@ec.europa.eu to inform us you want to send more files
2. On the portal we will reply to your feedback, then you can reply to us and attach your files

Feedback					
+ NEW FEEDBACK					
Attach.	Subject	From	Date	Type	Actions
	➔ ECIS Data Call – Report on internal consistency of data submitted on 02/12/2022 (registry code: CRCODE)	Network admin	27/11/2025 16:06	Feedback	
	➔ Re: ECIS Data Call – Report on internal consistency of data submitted on 02/12/2022 (registry code: CRCODE)	Manuela Flego	02/12/2025 15:49	Feedback	
	Re: Re: ECIS Data Call – Report on internal consistency of data submitted on 02/12/2022 (registry code: CRCODE)	Network admin	03/12/2025 11:30	Feedback	➔ Reply

2. CR reply to JRC

1. JRC reply to CR feedback

3. Attach file/ZIP archive

Type
Feedback

Subject
Re: Re: Re: ECIS Data Call – Report on internal consistency of data submitted on 02/12/2022 (registry code: CRCODE)

Attached file
 _CRCODE_INCIDENCE_revisions.zip [Browse ...](#)

Body
Dear JRC colleagues,
Thank youPlease find in attachment our additional revised files

| Thank you for sending your revisions In case you need to send us more files, please reply to this feedback attaching your file or zip archive with multiple files.....

[Send](#)

2nd phase feedback

IMPORTANT REMINDER:

Please apply in your local database all corrections agreed on the submitted dataset and implemented in the JRC database

Do you need clarification/assistance? Contact us!

JRC-ENCR@ec.europa.eu

Plan of the webinar

1. WHEN? Timing of the submission and data validation process
2. WHAT? Guidelines for data preparation and submission
3. HOW? Outline of the data validation process and most frequent issues
4. **Questions and answers***

***Q&A session will not be recorded**

Thank you



European Cancer Information System (ECIS): <https://ecis.jrc.ec.europa.eu/>
European Network of Cancer Registries (ENCR): <https://www.enchr.eu/>

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