

Joint Action 3

MILESTONE

Milestone 5.15 Final validated Standards Tool for Registries in HTA prepared

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Introduction to REQueST

Registry Evaluation and Quality Standards Tool (REQueST)

Description of REQueST

The Registry Evaluation and Quality Standards Tool (REQueST) has been developed to support more systematic and wide-spread use of registry data in HTA and for regulatory purposes. It will support consistent evaluation of the suitability and reliability of registries for HTA. The tool uses criteria and standards published in existing guidelines, frameworks and projects, as well as several newly developed criteria. It is designed to be useful in several potential contexts; by registry owners to develop the quality of their registry, and by international organisations (HTA and regulatory) considering whether to use registry data in evidence development.

The tool is designed to be used in three steps (see 'Instructions for use' worksheet for more information):

- A) 'Methodological Information' Screening step to identify registries whose data and methodology match the requirements of the HTA/regulatory study or research question(s)
- B) 'Essential Standards' Assessment of registry governance to assure general data quality and protection
- C) 'Additional Requirements' Specialist requirements for the specific evidence questions

Note: Users may wish to add requirements into sections for their own purposes including for example required file format, timelines for response, content limits, colour coding etc.

Definition

A patient registry has been defined as an organised system that collects data and information on a group of people defined by a particular disease, condition, exposure or health-related service and followed over time, and that serves a pre-determined scientific, clinical and/or public health (policy) purpose. Although the terms 'registry' and 'study' are sometimes used interchangeably, it should be noted that the tool is intended to be used for registries (data collection systems). Registry-based studies will benefit from quality assessment of the registry platform but will have other specific requirements that need additional review (a registry-based study is an investigation set up to answer a research question that uses data collected in a registry).

Patient registries can be used as a source of real world data for evidence generation for HTA purposes. In addition data from registries can be used for epidemiological and quality control aims and, if they are (nearly) completely recorded and monitoring is systematic, they can help in recording late-occurring or rare (unintended) events. The specific contribution to HTA of real world data lies in the potential to measure a technology's effectiveness (e.g. how well a technology performs as intended in the general population of patients, and in the less controlled environment of clinical practice), as opposed to clinical studies that measure efficacy (e.g. how well a technology performs in a setting of carefully selected patients and a controlled protocol). The REQueST tool is designed to support the collection of real world evidence whilst minimising potential bias.

Data from patient registries are used in two main ways. From pre-existing patient registries as a form of secondary data use and, new patient registries as a form of primary data use, in accordance with the HTA research question.

Although registries have been recognised as an important source of data and information, both during the pre- and post-launch phases of technology lifecycle and related assessments, until now only limited published examples are available on the use of registries by HTA organisations in Europe.

Development of REQueST

REQueST has been developed by activity centre partners in support of the European network for Health Technology Assessment Joint Action (EUnetHTA JA3) work package 5 strand B2 work. As part of this work, a survey was conducted to explore the current understanding and use of registries by HTA agencies and the employment of any standards/criteria or other tools to assess the quality and comparability of registries before their use in HTA. The results showed that the real world data from registries is used more extensively than previously described in the literature, and for more 'advanced' inputs into the HTA process (effectiveness and safety) than previously described (mostly 'basic' epidemiological data like prevalence and incidence). The results from the survey strengthen the need for developing a standardised tool to assess governance and data quality of registries before their use in health technology assessment.

This tool is part of the EUnetHTA JA3 project which has received funding from the European Union's Health Programme (2014-2020).



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Instructions for use

Registry Evaluation and Qua

Instructions on how to complete the evaluation by section

REQueST is designed to provide a framework for registry owners to demonstrate the quality of their data collection and for HTA/regulatory professionals to transparently as

The HTA agency/regulatory body may wish to provide an outline of the proposed use of the registry in order to help the registry owner to address the specific needs of the

The registry owner provides the information about the registry, and the HTA/regulatory professional evaluates the information supplied.

The evaluation should be done in 3 steps, in a consecutive manner:

A) 'Methodological Information' - Screen for registries whose data and methodology match the requirements of the HTA/regulatory study or research question(s) 'Methodological Information' refers to the methodology used and the data contained in the registry. This section provides an opportunity for the HTA or regulatory body to data collected by the registry. Providing methodological information demonstrates a registry's transparency and readiness, and the ability of the registry to answer a specifi

This information should be assessed by the HTA agency or regulatory body to make sure the data and methodology match the requirements of the HTA's evidence question methodology of the registry meet the user's needs, the registry quality should be evaluated against the essential standards.

B) 'Essential Standards' - Assessment of registry governance to assure general data quality and protection

'Essential Standards' are the minimum requirements for every registry. They are universal and essential elements of good practice and evidence quality. Unless all essential demonstrated to be met, the HTA should not use the registry for evidence development.

In this section the evaluation is done by comparing the information provided by the registry to the minimum essential standard.

C) 'Additional Requirements' - Specific requirements for the evidence questions

'Additional Requirements' are elements of good practice and evidence quality which are not always practical, feasible or necessary to achieve, but may be important to specification of the 'Additional Requirements depends on the requirements of an individual HTA agency or regulatory body. Suggested basic standards are described here for meet the HTA agency or regulatory body's needs.

In this section the HTA agency or regulatory body judges whether the level of evidence provided is sufficient and whether the information meets the requirements of that H

Evaluation results are automatically generated by the tool and can be found in the 'Output' worksheet.

The definitions of the tool items as well as further explanation of how to use the tool for specific items are to be found in the 'Glossary and explanations' worksheet.

Implementation of this tool requires an infrastructure a 'vision' for which has been set out in an accompanying paper. Sections 19 to 23 of the vision paper describe seve delivery, use and sustainability of REQueST. Different organisations may complete the various sections of the tool, depending on the phase of the tool's implementation will be developed to provide greater detail on requirements as the later phases of the vision are implemented.



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HTA agency or regulatory body.

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1. It is hoped that the criteria



Methodological Information

Registry Evaluation and Quality Standards Tool (REQUest)

Instructions on how to complete the evaluation for 'Methodological Information':

This section of the tool is designed to collect information on the methodology used and the data contained in the registry. It should be used by the HTA agency or regulator, to make sure the methodology and data match the requirements of the evidence gap or research question(s). Although the questions do not provide insight into the quality of the registry, they should be answered in order to allow the HTA agency/regulator to decide whether or not the registry is suitable for the evidence development required.

Item number	Area	Item and format required	Column completed according to the data provided in the IPIG PNH Registry Protocol and communication with IPIG and vendor	Does the information meet the PASS requirements? (Select one option) To be completed by the Novartis assessor	Comments To be completed by the Novartis assessor
1	Type of registry	Specify the type of registry which defines the patient population, all the health interventions included in the registry old the registry of the registry price for primary and secondary). Free text/short summary + online link	Disease Registry: Patients with PNH confirmed by flow cytometry who do not currently participate in an interventional PNH clinical trial. All patients with PNH will be eligible, regardless of the type of therapy they are receiving.	cytometry who do not currently participate in an interventional PNII citincal trial. All patients with PNIH Satisfactory from the Wilb e eligible, regardless of the type of therapy they	
2	Use for registry-based studies and previous publications	Can the registry be used as a platform for prospective registry- based studies? Provide weblink to publications. Free text/short summary + online link	Yes, access to data for patients treated with PNH- specific therapies may be provided to respective MAHs ("product-specific silo")	Satisfactory	Access may only be provided to data for patients treated with MAH's own product, comparative studies not possible
3	Geographical and organisational setting	Specify the geographical area of the registry and organisational setting. List the data providers (type of providers and the number of sites) participating in the registry. Free text/short summary + online link	Currently planned: Australia, Brazil, Canada, China, France, Germany, Italy, Japan, South Korea, Spain, Switzerland, United Kingdom, United States	Satisfactory	Further countries may be added. Participating HCPs are selected among the PNH KOLS that are treating several patients in their practice. In the extremely rare disease setting this is considered to be an acceptable approach.
4	Duration	Specify the start and, if relevant, final date of data collection (duration). Indicate if the content (e.g. variables or coding) of the registry has changed in any significant way over time) Numeric and free text	FPFV: Q4 2023 End of data collection: currently not defined, however, each patient is expected to be followed up for up to 5 years	Satisfactory	Planned duration of follow-up is satisfactory to conduct a safety study
5	Size	Provide the total number of patients included in the registry. When was this number calculated? Numeric and date Provide the percentage of the patient population who meet selection criteria and who have participated in the registry. Percentage and free text explanation if necessary	Expected total enrollment: 2000	Some concerns exist on how the expected to be reached, e.g., no all countries were initiated as preeds further clarification.	
6	Inclusion and exclusion criteria	List the inclusion and exclusion criteria. Free text/short summary + online link	PNH confirmed by flow cytometry, signed ICF. Exclusion: participation in an PNH clinical trial.	Satisfactory	Broad inclusion criteria serve to maximise patient population
7	Follow-up	Describe the methodology for the follow-up. What is the average follow-up period per patient in months? How do you predict and prevent loss to follow-up? Free text	Study visits expected to be approximately every 6 months; follow up for up to 5 years	Satisfactory	Data is collected by specialized hematology centers so LTFU is expected to be a relatively minor issue
8	Confounders	Are data relating to potential confounders collected and identified for a specific registry use as appropriate. Specify techniques to prevent or control the potential confounders. Free text	Detailed patient history, laboratory values, pregnancy history is collected	Satisfactory	All key variables relevant to PNH history and treatment as well as the outcomes are collected in the registry

FALSE

Essential Standards

Instructions on how to complete the evaluation for 'Essential Standards':

If the data and methodology of the registry meet the HTA agency/regulator's needs, the registry is being evaluated against the "Essential Standards".

"Essential Standards" are the minimum requirements for easy engoty: They are sharenst, consental dements of good practice and endorce quality. Unless all essential criteria are satisfa
with section the excellentable for force in complete the level of evidence periods in the threatment consential criteria.

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Item number	Area	Minimum standard	Assessment criberia	Item and format required
9	Registry aims and methodology	Registry has stated aims, objectives and methodology.	Registry has specified objectives, target population, exposures of interest, primary and secondary outcomes, data sources, linking and analysis plant of any): If the documentation is more than 5 years old, the current satas should be checked with the registry coordinator or participant.	Provide the registry documentation of aims, objectives and methodology. Document file format
10	Governance	Registry governance is in place.	An independent steering committee or a generating body and a date guality team was gendered responsibilities or justice. These should include patient responsibilities or justice. These should include patient responsibilities of patient responsibilities of the detail of the steering of the formation of the detail of the steering of the formation of the detail of the steering of th	Describe the registry governance structure. Provide documentation of the research efficies approved registrated as appropriately and all declarations of interest free text.
11	Informed consent	Protection of privacy rights is assured for the perions whose health-related data is recorded.	The informed consent document should explain to potential participates. **The nature, purpose of the registry and whether secondary **The nature, purpose of the registry and whether secondary **Interpretation of the registry and the secondary **Interpretation for participation in the registry, **Interpretation for participation in the registry **Interpretation for participation in **Interpretation for participation for **Interpretation for participation for **Interpretation for participation for **Interpretation for **Interpretatio	If the registry requires individual informed consent for recording personal disat registry fyrinary approach; provide the consent document (focument file format). Or, if regulations aims for the management of data in the absence of informed consent describe authorisation received for this. Free best
12	Data dictionary	The data set has a data dictionary or similar.	The data discoursey blood contain identifying attributes from D, discribing attributes from D, discribing attributes from D, discribing attribute from D, discribing attribute for the discribing formulation and representational traditional (permitted for representation claim, data stype, formula). The data discribing reference transmission of the discribing formulation of the data discribing forms term invested to animize the registry research questions and objectives. If the discrimination is more than 5 years only, the current datas about the charge of the discribing attribute for positry coordinator or participant.	Provide a documented data dictionary. Onch that the data dictionary can be expanded an increasing for a specific purpose. Document file format
13	Minimum data set	The registry has a defined minimum data set.	The registry has a defined minimum data set that is able to answer the registry's research questions and objectives. If more fields are required for a specific purpose, the registry is able and willing to make the mocessary changes. If the documentation is more than 5 years old, the current status should be checked with the registry coordinater or participant.	Provide a minimum data set. Document file format
14	Standard definitions, terminology and specifications	Standard definitions, terminology and specifications are being used.	Name of the standard, category of data (diagnosis, procedure, medication) and usage of the standard (organising, storing, managing or protecting the data sets) should be provided.	Specify national/international data standards used for organising, storing, managing and protecting the data sets. Free text
15			requirements acceptable to submitters) for the proposed	Describe the data collection procedure, pathway of submission, how data are submitted and access rights to the registry. free text/flow chart
16	Quality assurance	The registry has a quality assurance plan including assured delivery of continuous and comprehensive data submission.	Quality assurance activities relevant for the registry need to described.	Specify the quality assurance activities. Provide at a minimum details of data validation methods, accuracy checks, routine completeness and coverage estimates.
17	Data cleaning	A plan for cleaning the data is described.	There is a plan for cleaning the data that includes the time required for cleaning after closure to data submission.	Describe the data cleaning plan. Free text
18	Missing data	A plan to manage missing data is described.	The percentage of missing data for the core outcomes has been provided. An explanation is given for whether missing data may potentially bias results.	Describe the analytical plan for missing dat (complete analysis or imputation?) Free text
19	Financing	The financing of the registry is transparently presented.	Inexestal accords to the end of the vederice development provide should be demonstrated in the financial plans solvency with a summary of income and expenditure for the provider 2 years in recommended. Also, inclining sucreas are identified and the apprixe, proportions (PL) of total sum from each funding source is inclinated. If the documentation is more than 5 years old, the current satus should be checked with registry coordinator or participant.	Provide a financial plan (or similar) of the registry. Demonstrate financial security for proposed evidence development period. Document file format
20	Protection, security and safeguards	Data security risks, policies and procedures are described. The registry has a policy for data sharing.	The security controls specific for the registry should be specified. Risks should be identified and appropriate mitigation described.	Describe in detail the data security risks, policies and procedures specific to the registry. Free text

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Additional Requirements

Instructions on how to complete the evaluation for 'Additional Requirements':

'Additional Requirements' are useful extra items of information, relevant to evidence quality but which are not always practical or feasible to achieve. They may be useful to consider in planning and evaluating registries for specific purposes. Evaluation of the 'Additional Requirements' depends on the requirements of an individual HTA agency or regulator and the specific evidence gap.

In this section the HTA agency/regulator judges whether the level of evidence given is enough and whether the information meets its requirements.

Item number	Area	Standard/requirement and format of the requested data	Assessment criteria	Column completed according to the data provided in the IPIG PNH Registry Protocol and communication with IPIG and vendor	Does the information meet the HTA agency/regulator's needs? (Select one option) To be completed by the Novortis assessor	Comments To be completed by the Novartis assessor
21	Interoperability and readiness for data linkage	2. Data format: CDISC	1. Data access and sharing procedures documentation are uploaded. 2. Average time to answer an information query and to undertake data linkage is apacified. 3. Statements regarding uage of data and consent for data sharing (and with whom) are provided. These cover sharing for registry data with interested parties from other countries and/or international organizations. 4. Technical standards, data structure, and standard sets for measuring health outcomes and internationally agreed minimum data set is specified. 5. Evidence of specific frees in providing access to data and data integer are certified.			Data linkage: not applicable Further clarification on the data management aspect is pending from as summarized to the left
22	Data sources	All data sources are identified. Predefined, multiple choices. If 'Other' - Free text	Sources of data are identified. If the sources of data for the registry are not listed, please select 'Other' and describe the data sources in text.	Data source: hematology specialists that agreed to participate in the registry data collection. No linkage planned		
23	Ethics	An ethical committee is involved in governing the usage of data. Free text	Consideration of research ethics requirements has been reported. If a research ethics committee approved the working procedures/ methodology of the registry, the process of obtaining approval is described.	Protocol: the registry shall be conducted in compliance with ISPE GPP guidelines, the ethical principles of the Declaration of Helsinki, the EU GVP, European and Nationals laws in terms of data protection and all	Satisfactory	Study is submitted to the relevant IRB/IEC for approvals before starting the patient enrollment

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Output

Registry Evaluation and Quality Standards Tool (REQueST)

Instructions

Individual scores are automatically copied from the 'Methodological Information', 'Essential Standards' and 'Additional Requirements' worksheets. The area score is automatically generated by the tool.

Registry name: IPIG PNH Registry
Date of assessment: 10-Sep-23

Satisfactory

Needs development / clarification

Not suitable

Area	ltem	Colour rating
Methodological Information	1. Type of registry	
	Use for registry-based studies and previous publications	
	3. Geographical and organisational setting	
	4. Duration	
	5. Size	
	6. Inclusion and exclusion criteria	
	7. Follow-up	
	8. Confounders	
Essential Standards	9. Registry aims and methodology	
	10. Governance	
	11. Informed consent	
	12. Data dictionary	
	13. Minimum data set	
	14. Standard definitions, terminology and specifications	
	15. Data collection	
	16. Quality assurance	
	17. Data cleaning	
	18. Missing data	
	19. Financing	
	20. Protection, security and safeguards	
Additional Requirements	21. Interoperability and readiness for data linkage	
	22. Data sources	
	23. Ethics	



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Glossary and exp	lanations			eunethta
Term	Area	Definition	Explanation for use in REQueST	Reference source
Registry	General			Zaletel M. Kra J.M. (Eds.), Methodological guidelines and recommendations for efficient and rational governance of patient registries, 2015. National institute of Public Health Ljubijana.
		An organised system that collects data and information on a group of people defined by a particular disease condition exposure or health related service and followed over time and that service a predetermined scientific clinical and/or public health (policy) purpose.	'Segistry' is the organisation and system that supports one or a number of individual distalance or 'speciators'. In the ElbrechTA, All WPSB deliverables, the term 'register' will be used only to indicate the list of items, names or other data of interest.	National non: http://ec.europa.eu/health/sites/health/files/ehealth/docs/patient_re gistries_guide ines_en.pdf
Registry-based study protocol	General	The plan or set of steps to be followed in a study.	The methodology of registry-based studies should be consideret with the registry publics and procedures.	Https://www.ema.nurspa.nu/en/human-regulation/post- wishow/stroin-human-audinion. Marky/Hospitaman-purposed. DisGriff Compann Network of Centres for Pharmacopidemiology and Pharmacopidemiology. Pharmacopidemiology. Pharmacopidemiology. Hospitamiology. Hos
Type of registry	Methodological Information	BCQueST uses the following patient registry classifications: * A disease or condition registry is a registry defined by posterox with a common disease or condition. But conditions are conditionally as the conditional by patients who take or have taken a particular pharmacularial product. * An edical technology registry is a registry defined by patients who have been exposed to a particular device or diagnostic schoolings. An production implicit is registry and registry defined by patients who have been exposed to a particular device or diagnostic schoolings. **A production implicit is registry difficulty patients who have	Specify the type of registry which defines the patient population all health interventions included in the registry and the registry objectives (primary and occordary).	autemi Merhodiogical information - MCQueST. Categories developed for this programm of work. OLGAPP Furopean Network of Centres for Pharmacoepidemiology and Pharmacoepidation ISACAP Resources Database. Assistate from: http://www.escopp.au/escopp/resources/landasea.jag-
Use for registry-based studies and previous publications	Methodological Information	The registry should have galaxy and excondary objectives.	The negistry objectives may include the possibility of running a negistry- based study which would have its own aims and objectives [consistent with those of the negistry but usually answering a specific research question or evidence gap[.]	Zalesel M Vira j M (Ed.), Methodological guidelines and recommendations for efficient and rational governance of parlies registrice. 2055. National Institute of Public Health Ljubijana. Available from: https://jec.numpa.eu/health/lives/health/files/ehealth/docs/parliest_y/gitzies_guide hea_en.pdf
Geographical and organizational setting	Methodological Information	The perspectival area and experimental entering from which the registry recent interesting entering the control to the registry recent interesting entering from the same and an admitted data American of Experiment Control and individual from the Control and	Gyachy whether the registry is not an issued unabout or international lawel Gyachy whether the registry is not accessed. Also provide that type of data providency participating in the registry.	Tray / I was mind ray discoluted (Food) redeminación of reads - 60040- procipies quiem regime procipies quiem regime / Tray / Lifetaci we bell'acces and ray por labora (Indiana) (Food) gall impaire - 2nd - edition , presentin publi
Duration	Methodological Information	Specify the start and it messant mail date of data co section (studeon). Indicate if the content (e.g., variables or coding) of the registry has changed in any significant way over time).	No additional explanation.	http://effectiehealthcaes.ahra.gov/ides/default/files/pdf/registries- gide-land-edition_research.pdf
Size	Methodological Information	Description of the absolute number and proportion of the eligible population which is recruited into the registry.	No additional explanation.	lem:lem:lem:lem:lem:lem:lem:lem:lem:lem:
Indivision and endusion offers	Methodinigical information	Technical manus and result of collision for a grant seed seek seek seek seek seek seek seek	Assessment of the term enter to learn. Registry searchy. The More Security Florice Securities Policies Registry searches. The More Securities Policies Registry searches. The More Security Florice segment of the Security Securit	Stand in Style Standardsprogrammer species and programmer State Standards S
Follow-up	Methodological Information	The period of pollet show value for a neglity, it can be ad-classified for the control of the control of neglity pollet deservation where Action follows: Action follows pin the period of neglity pollet deservation where the control of the control of neglity pollet deservation. **Pacida Million up in the period of neglity polleted absenced **Pacida Million up in the period of neglity polleted absenced **Pacida Million up in the period of neglity polleted absenced **Pacida Million up in the period of neglity polleted **Control of the period of negl	The methodology for the follow-up can be described as active follow-up passive follow-up or mixed follow-up.	Zelest M. 102 M. (Eds), Methodological guidelines and recommendation for efficient and relation governance of patient recommendation for efficient set of relation algorithms. Available service. 2015. National institute of feeds relative (spallpass. Available service. publish service. Available (spallpass. Available patients. guide less, quo pell spallbass (spallpass.) Patients (spallpa
Confounders	Methodological teformation	Confounding factors are variables that influence both the exposure to treatment and the outcome in the analyses and can conflue analysis results and interpretation of causality. The stated aims objectives and methodology of the registry.	Confounding can include patient flatters provider factors and system flatters. Centrol of confounding flattors can be done in the design and analysis phases. While it is not provide to identify all confounding factors in the advance of data construction. It is desirable to give serious thought to what will be important and how the necessary data can be collected.	
Registry aims and methodology Governance	Ecceptial Standards	An organisational foundation of patient registries: mostly concerned with pulsance and decision making.	Documenting registry policies and procedures enables the registry to become many process dependent than person dependent potentially enhancing data quality stability and reliability. Registries fulfill governance roles in a variety of ways, for example strough	Zalezel M. Kra j M. (Sul). Methodological guidelines and recommendations for efficient and rational governance of parliest registrice. 2015. National institute of PhAsic Health Ljudijona. Available force: Trappe/fice surplus an, [health / link-phasith/fiose/parlient_re- gistrice_guide-leve_encyde: Salezel M. Kra j M. (Sect.). Methodological guidelines and
		with guidance and decision making.	Registres full governor role in a variety of ways for example through a project management team closely subject master band sizeffic controlled that closely not distance management band large plants plants given quality assumes the sear for Mary of the roles could be plants given quality assumes the first of the role could be made in adaptive. It was commodate all of the working constitutions and provide a mechanism for those individuals to work taggether to achieve the qualit of the registre. When the plants of the day again of the registre. When the Managing conflicts of interest in vibil to transparents of governance.	gistrien, publis hear, mpdf. Zuleien M toy (MR), Whendoolingsid guidelines and recommendation for efficient and restoral generation of patient registrien. 2015. Kinnelland institute of place faces, and patient registrien. 2015. Kinnelland institute of place faces, (pagina. Auditoria fram: Auditoria fram: Service and Service faces, (pagina) Service fram: Servi
Informed consent	Ecceptial Standards	A person's agreement to allow personal data to be provided to the registry.	Securing the privacy of the gatients or research subject is an essential task when establishing and maintraising a patient registry or when conducting registry-based research. Moreover when processing personal dates the data controller has no tale into account not only legal but also ethical prospectives. Informed consert refers to particular prospectives. Informed consert refers to a silow personal data to be provided for the registry.	Zalesi M. Kra j M. (Sch). Methodological guidelines and recommendation for efficient and reforming permanene of patient registries. 2015. National institute of Photic Health Ljudijana. Available from: https://se.woops.au/health/lites/health/docs/patient_re- platines_guide-ines_sn.pdf
Data dictionary	Eccential Standards	Set of information describing the data elements and how those data elements; are interpreted. The data dictionary contains a detailed elements are interpreted. The data dictionary contains a detailed contains and the variable coding information if used and normal ranges if relevant.	Data elements should be used-documented and resoldly accessible to europene who is interested in a regionary data or. Well-documented and transparent data element give as understanding of the collected data and transparent data element give as understanding of the collected data and the state of the state of the state of the state of the state of that a neglity establishes an inventory of all data elements/unitables (collected in the neglity establishes and inventory of all data elements/unitables (collected in the neglity establishes). The data of account of the state of the state of the production and objects.	https://diffectionhealthcom.uhrug.gov/chen/fafesi/filles/godf/registrie- gide-lind-edition_research.god
Minimum data set	Eccential Standards	List of data elements/variables that are essential to collect the data for any cose/subject.	As a ninimum registry planners must account for the minimum data set when calculating the resource needs and overall design of the registry. It is recommended that a minimum data set should contain the following information: identifying attributes (pursue ID) definitional attributes (efficition of data element where also the purpose of the data element is described) and representational attributes (permissible values monerestation dats data see fermal.)	Zeiter M. Kraj. Wij Eddt, Merhodological guistilien and Kraj. Wij Eddt, Merhodological guistilien and Kraj. Wij Eddt and Kraj.
Standard definitions, terminology and specifications	Eccential Standards		It is important to ensure that the specifications of the data are consistent with neutron and international data standard. This would neglicitate at requirement of the standard in this would neglicitate at registry with respect content and uniternational size estimated in the second contention is a resemble in repriving data quality. Some example of data standards are treminology standards (CTL) for example of the standards are treminology standards (CTL) transcriptional standards (Specific HL) FRM CDL C CDL MITTERS (SDL SQCMS MEXICAL information resident) problem (MT FRM CDL SQCMS MEXICAL information resident) problem (MT FRM CDL SQCMS MEXICAL information resident) problem (MT FRM CDL SQCMS MEXICAL information resident).	regissins. 2015. National instance of Public Health Updalpins. Analyzin forum. https://e.mospa.eu/health/lise/health/files/hhealth/docs/patient_re printing_pinker_public less_poper. https://www.ichom.org/ https://www.ichom.org/
Data collection	Ecsential Standards	The process of grithering data to get a complete and accounte picture of an area of interest of the registry.	The registry should have a detailed procedure plan for the entire data criterious and procise methodological guident/structural instructions and criterious and procise methodological guident/structural instructions and criterious information on registral greatment, which data need to be collected and have means of data transmission entablished contrain for exceptived data lag, exacility of data subappay of recordin and retrieved to the contrained of the criterious and the contrained The registry should find resources for continuous data collection.	Jaient M. Vo. 1 M. Edd., Methodological guideline and recommendations for efficient and relating powerson of patient registers. 2015. National instance of Public Health Spidiptine. Available from: Tapp://peempsa.ep/math/bitm/phasth/files/phasth/doc/patient_registers_guide tom_on_on_off sprints_guide tom_on_off sprints_guide tom_on_off sprints_buide tom_on_off sprints_bu
Quality assurance	Essential Standards	Quality conductors for the regiony data procedures and computerised systems to be followed in order to meet the quality requirements.	legistry showes thesid consider how to ensure quality to a level self-cent for the intended queeze (and how so develop appropriate quality sourcance plans for their registries. These conducting the registry should assess and report on those quality assurance activities.	DAGEP European Network of Centres for Pharmacopialamology and Pharmacopialamology. ACMP Guide on Methodological Standards in Pharmacopialamology. Available from: http://www.wrcopp.ac/standards.pnd.guidecons/mathodologicalGuidecons/ activated https://www.wrcopp.ac/standards.pnd.guidecons/mathodologicalGuidecons/ activated https://www.wrcopp.activa.achru.guidecons/mathodologicalGuidecons/ https://www.wrcopp.activa.achru.guidecons/mathodologicalGuidecons/ public had-dedocons-passarch.guidecons-public https://www.ht
Data cleaning	Ecceptial Standards	Data control and disaning of gatient registries is the process by which encoreous data are removed or fixed.	The plan for deaning the data should take ites account the following types of data anomalies: lack of data displicates data inconsistency and out-of- range values. Disputility sporting broad include sectorment of population coverage validity and reliability of measurements.	Zalesel M Kra j M (Ed.). Methodological guidelines and recommendations for efficient and rational governance of patient registries. 2055 Antonian Institute of Public Health Ljublipma. Available from: through recommendation of the Public Health Ljublipma through the Antonian Antonian Company platness, guide lose, ampdf.
Missing data	Eccential Standards Eccential Standards	The process by which missing data are filled. Financial resources used to ensure the austinability continued.	Missing data should be treated with care to avoid the potential introduction of bias. The availyful plan for missing data (complete a salysis or imputation) doubt date into account the data of the data or that data reasons why data are missing produce or otherwise), Linking to external carbonases, can provide a source to fill missing values. Special codes or data variables to that the source to fill missing values. Special codes or day variables should be set to distinguish convexed fields. The financial claim thought to be missinguish convexed fields.	Dalesti M. Kra j M. (Ed.), Methodological guidelines and recommendations for efficient and rational governance-of patient registries. 2015. National Institute of Public Health. Quibljanus. Available from: https://ec.europa.eu/health/dises/health/files/ehealth/disculpatient_re- latities availed here en.ord.
		Financial resource used to ensure the sustainability continued releasons and maximum impact of the data for which the negistry coordinators are responsible.	The financial plan should take into account initial development of the registry including infrastructure database user training costs etc. and longer-term maintenance including periodic evaluations and additional analyses.	Zaletel M. Kra j M. (Ed.), Methodological guidelines and recommendations for efficient and rational governance of patient registries. 2015. National instatus of Public Health Lipbilipss. Available from: https://ec.auspa.eu/health/lives/health/files/phasth/diocs/patient_ri- gistries_guide-lees_en.pdf
Protection, security and safeguards	Goserdai Standards	Manuser regiment of other to minima the purpose of protegors, under the regiment of the confidence of the conf	Amount of more than the control of t	Teac (new said Titlessuring amy franç (1958 1898) have been dead of a man of the COTTON
interoperability and readiness for data linkage	Additional Regulatements	in the broader sense stands for "ability to operate with others" it can be applied to any charton when two or more estitive solves their path or propose by succeeding intendinging service.	Daving registry data with other interested parties signifies the registry's selection of the control of the co	Zalerá M. Go. J.M. (Edd., Methodological guidelines and excuremendation for efficient and rational generators of patient mattern decides the efficient and rational generators of patient Available from: https://ex.europa.eu/health/line/health/line/phaeath/docu/patient_ra- strays_(ric europa.eu/health/line/health/line/phaeath/docu/patient_ra- gistries_pulse have_mp.pdf
Data sources	Additional Requirements	and the second test of the secon	refininguity is observablement account the stockshopper abject to cause condiction (e.g. page-based from we shall obtain early and the accept and the advantages and dissolventages of both paper-based and electronic page-based. In page 1997, the condition of the page 1997 and the page 1997 and the page 1997 and 19	Zairel M. Go. J.M. (Eds.), Methodological guidelines and recurrencedates for efficient and returning personance of patient Available from: TELE, (In: averapea, hostis) from (hostis), filling his and patient, public hear, mp. pdf. (Eds.), public hear, mp. pdf.
Ethical committee	Additional Requirements	Group of people whose role is advising on the efficient and secure collection and charring of health information evaluating information resources and publishing information about the delivery and performance of a registry	While this specific or Origins is foreign discount owner there is an obligation to ensure that the registry complies with relevant ethics requirements.	Zaletel M Kra j M (£ci), Methodological guidelines and recommendations for efficient and rational governance of patient registrice. 2055. National institute of Public Health Lijubijana. Available from: https://jec.nouropa.eu/health/lizes/health/files/ehealth/docs/patient_y/e gistries_guide-ines_en.pdf



FAQs

Question	Response
Who by, and for what purposes, is the tool designed to be used?	REQueST is designed to be used by i) registry owners to assess the quality of their registry, and ii) international organisations considering whether to use registry data in evidence development for HTA and regulatory monitoring. The purpose is to highlight areas of a registry that need improvement in order to maximise the quality of its data and ensure that those data can be used for HTA and regulatory purposes.
Will REQueST be used to generate evidence for HTA agencies or regulators, or to evaluate evidence submitted by others to those bodies.	REQueST is designed to enable registry owners to develop robust data collection and analyses for use by HTA agencies and regulators. In line with this it should be used by HTA agencies and regulators to transparently assess the quality of data from registries.
What should the requirements for acceptance of criteria be?	Evaluation is done by comparing the information provided by the registry to the standard set out in the tool. The rigor of requirements should be appropriate to the nature of the technology and circumstance. They may increase as the phases of development are implemented. NB the reader should consult the vision paper for more information on the phases.
Are confounding data considered in REQueST, and how?	It is not possible to identify specific confounders for a whole registry. Confounders apply rather for registry-based studies addressing specific research questions. However, there may be cases in which confounders can be identified a priori. In registry-based studies, data are needed to distinguish between objectives of a descriptive nature like treatment patterns or prevalence or incidence of a condition, and studies with comparative effectiveness purposes where confounding is an important consideration.
Is REQueST evidence based?	PARENT is the main evidence reference for REQueST - further explanations are provided in the 'Glossary and explanations' worksheet.
Is REQueST designed to assess registry-based studies or Registries?	REQueST is designed to assess the quality of registries. Additional work would be required to review a proposed registry based study.
How does REQueST fit into the landscape of emerging guidance on registries?	REQueST is designed to be a simple tool that is based on international published guidance on registry methodology. It provides a transparent, clear summary of the strengths and weaknesses of a registry that users may wish to approach for purposes such as registry based studies, audit, simple data collection etc.
The 'Additional Requirements' should be essential. Why are they not all listed under 'Essential Standards'?	The issues are covered at a basic level in Essential Standards but more, study-specific requirements may be required e.g. not all registry data are intended to be shared across borders and not all registry data require research ethics approval (if intended for audit purposes only).

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