



**eunetha**  
EUROPEAN NETWORK FOR HEALTH TECHNOLOGY ASSESSMENT

### Joint Action 3

## MILESTONE

#### Milestone 5.15 Final validated Standards Tool for Registries in HTA prepared

|                            |  |
|----------------------------|--|
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| 2            | 12/22/2017 | MV, Hannah Patrick (HP) (NICE)                                    |
| 5            | 7/12/2018  | MV, HP, Helen Powell (HeP) (NICE), Irena Guzina (IG) (HAS)        |
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| 9.7          | 9/30/2019  | Maja Valentić (HZJZ), Hannah Patrick (NICE), Helen Powell (NICE), |

## Introduction to 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.

### Definitions

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).



**Disclaimer:** The content of this tool represents the views of the authors only and is their responsibility; it cannot be considered to reflect the views of the European Commission and/or the Consumers, Health, Agriculture and Food Executive Agency or any other body of the European Union. The European Commission and the Agency do not accept any responsibility for use that may be made of the information it contains.

## Instructions for use

### 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 assess the quality of the registry.

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 HTA agency/regulatory body.

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 assess the quality of the data collected by the registry. Providing methodological information demonstrates a registry's transparency and readiness, and the ability of the registry to answer a specific research question.

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. If the data and 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 standards are 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 specific HTA agency or regulatory body. Evaluation of the 'Additional Requirements' depends on the requirements of an individual HTA agency or regulatory body. Suggested basic standards are described here for 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 HTA agency or regulatory body.

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 several phases of 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. The tool will be developed to provide greater detail on requirements as the later phases of the vision are implemented.



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Quality Standards Tool (REQueST)

assess the quality.

work.

gather information about the  
evidence gap.

1(s). If the data and

criteria are satisfactorily

cific evidence questions.  
reference, but these may not

1TA agency or regulatory body.

eral options for the long-term  
1. It is hoped that the criteria

## Methodological Information

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?<br>(Select one option)<br>To be completed by the Novartis assessor | Comments<br>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 and the registry objectives (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. | Satisfactory  | Note: here and below all data is extracted from the IPIG PNH Registry Protocol  |
| 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<br>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<br>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   | Needs development / clarification   | Some concerns exist on how this number is expected to be reached, e.g. not all sites in all countries were initiated as planned. Topic needs 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':  |   |   |   |   |
|--|---|---|---|---|
| <p>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 every registry. They are universal, essential elements of good practice and evidence quality. Unless all essential criteria are satisfied in this section the evaluation is done by comparing the level of evidence given to the minimum essential standard.</p> |   |   |   |   |
| Item number  | Area  | Minimum standard  | Assessment criteria   | Item and format required  |
| 9  | <b>Registry aims and methodology</b>                        | Registry has stated aims, objectives and methodology.   | Registry has specified objectives, target population, exposures of interest, primary and secondary outcomes, data sources, linkage and analysis plans if any.<br>If the documentation is more than 5 years old, the current status should be checked with the registry coordinator or participant.  | Provide the registry documentation of aims, objectives and methodology.<br>Document file format   |
| 10   | <b>Governance</b>   | Registry governance is in place.  | An independent steering committee or a governing body and a data quality team with specified responsibilities are in place. These should include patient representation. Registry governance should have an audited process for declarations of interest covering all financial contributions to the work. Employees of the relevant manufacturers, close relatives who have a position of responsibility within these manufacturing companies or close relatives with financial interests in the capital of these manufacturers could have a declared role in data analysis for the specified HTA project as long as the declared interests are considered not to affect the validity of the data. | Describe the registry governance structure.<br>Provide documentation of the research ethics approval (or equivalent as appropriate) and all declarations of interest.<br>Free text  |
| 11   | <b>Informed consent</b>                                     | Protection of privacy rights is ensured for the persons whose health-related data is recorded.                        | The informed consent document should explain to potential participants:<br>• the nature, purpose of the registry and whether secondary analyses may be undertaken,<br>• why they are candidates for participating in the registry,<br>• what risks, benefits, and alternatives are associated with the participation<br>• what rights they have as research subjects.<br>If the documentation is more than 5 years old, the current status should be checked with the registry holder.  | If the registry requires individual informed consent for recording personal data (registry's primary purpose), provide the consent document (document file format).<br>Or, if regulations exist for the management of data in the absence of informed consent, describe authorisation received for this.<br>Free text |
| 12   | <b>Data dictionary</b>                                      | The data set has a data dictionary or similar.  | The data dictionary should contain identifying attributes (name, ID), definitional attributes (definition of data element, where also the purpose of the data element is described), and representational attributes (permissible values, representation class, data type, format).<br><br>The data dictionary defines terms needed to answer the registry's research questions and objectives.<br>If the documentation is more than 5 years old, the current status should be checked with the registry coordinator or participant.  | Provide a documented data dictionary.<br>Check that the data dictionary can be expanded as necessary for a specific purpose.<br>Document file format  |
| 13   | <b>Minimum data set</b>                                     | 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 new fields are required for a specific purpose, the registry is able and willing to make the necessary changes.<br>If the documentation is more than 5 years old, the current status should be checked with the registry coordinator or participant.  | Provide a minimum data set.<br>Document file format   |
| 14   | <b>Standard definitions, terminology and specifications</b> | 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.<br>Free text   |
| 15   | <b>Data collection</b>                                      | Data collection is described.   | Data collection methods are realistic (e.g. software requirements acceptable to submitter) for the proposed population and treating centres with clear access rights.   | Describe the data collection procedures, pathways of submission, how data are submitted and access rights to the registry.<br>Free text/flow chart  |
| 16   | <b>Quality assurance</b>                                    | The registry has a quality assurance plan including assured delivery of confidence and comprehensive data submission. | Quality assurance activities relevant for the registry need to be described.  | Specify the quality assurance activities.<br>Provide as a minimum details of data validation methods, accuracy checks, routine completeness and coverage estimates.   |
| 17   | <b>Data cleaning</b>  | 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.<br>Free text   |
| 18   | <b>Missing data</b>   | 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 data (complete analysis or imputation?)<br>Free text   |
| 19   | <b>Financing</b>  | The financing of the registry is transparently presented.   | Financial security to the end of the evidence development period should be demonstrated in the financial plan, whereby a summary of income and expenditure for the previous 2 years is recommended. Also, funding sources are identified and the agreed proportions (%) of total sum from each funding source is indicated.<br>If the documentation is more than 5 years old, the current status 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.<br>Document file format   |
| 20   | <b>Protection, security and safeguards</b>                  | 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.<br>Free text  |



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Registry Evaluation and Quality Standards Tool (REQaDT)

## 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)<br>To be completed by the Novartis assessor | Comments<br>To be completed by the Novartis assessor   |
|-------------|---|--|---|---|---|--|
| 21          | Interoperability and readiness for data linkage | Registry shares data with interested parties.<br>1. Document file format<br>2. Data format: CDISC<br>3. AE reporting in the study database and forwarding to Novartis according to standard timelines<br>4. Data is provided to Novartis at least 3 times per year at previously agreed milestones<br>5. Free text | 1. Data access and sharing procedures documentation are uploaded.<br>2. Average time to answer an information query and to undertake data linkage is specified.<br>3. Statements regarding usage of data and consent for data sharing (and with whom) are provided. These cover sharing of registry data with interested parties from other countries and/or international organisations.<br>4. Technical standards, data structure, and standard sets for measuring health outcomes and internationally agreed minimum data set is specified.<br>5. Existence of specific fees in providing access to data and data linkage are clarified. | 1. Data access and sharing procedures documentation have not yet been provided to Novartis<br>2. Data format: CDISC has been agreed and confirmed by all stakeholders<br>3. AE reporting data format and modality: discussions with ongoing<br>4. Data transfer frequency has been agreed with IPiG | Needs development / clarification   | Data linkage: not applicable<br>Further clarification on the data management aspects is pending from as summarized to the left |
| 22          | Data sources                                    | All data sources are identified.<br>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  | Satisfactory  |  |
| 23          | Ethics  | An ethical committee is involved in governing the usage of data.<br>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 (SPE GPP guidelines, the ethical principles of the Declaration of Helsinki, the EU GVP, European and National 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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Registry Evaluation and Quality Standards Tool (REQueST)

## Output

### 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**

|  |                                   |
|--|-----------------------------------|
| <span style="display: inline-block; width: 20px; height: 10px; background-color: green; border: 1px solid black;"></span>  | Satisfactory                      |
| <span style="display: inline-block; width: 20px; height: 10px; background-color: yellow; border: 1px solid black;"></span> | Needs development / clarification |
| <span style="display: inline-block; width: 20px; height: 10px; background-color: red; border: 1px solid black;"></span>    | Not suitable                      |

| Area                       | Item  | Colour rating                                   |
|----------------------------|---|---|
| Methodological Information | 1. Type of registry   | <span style="background-color: green;"></span>  |
|                            | 2. Use for registry-based studies and previous publications | <span style="background-color: green;"></span>  |
|                            | 3. Geographical and organisational setting                  | <span style="background-color: green;"></span>  |
|                            | 4. Duration   | <span style="background-color: green;"></span>  |
|                            | 5. Size   | <span style="background-color: yellow;"></span> |
|                            | 6. Inclusion and exclusion criteria                         | <span style="background-color: green;"></span>  |
|                            | 7. Follow-up  | <span style="background-color: green;"></span>  |
|                            | 8. Confounders  | <span style="background-color: green;"></span>  |
| Essential Standards        | 9. Registry aims and methodology                            | <span style="background-color: green;"></span>  |
|                            | 10. Governance  | <span style="background-color: yellow;"></span> |
|                            | 11. Informed consent  | <span style="background-color: green;"></span>  |
|                            | 12. Data dictionary   | <span style="background-color: yellow;"></span> |
|                            | 13. Minimum data set  | <span style="background-color: green;"></span>  |
|                            | 14. Standard definitions, terminology and specifications    | <span style="background-color: green;"></span>  |
|                            | 15. Data collection   | <span style="background-color: green;"></span>  |
|                            | 16. Quality assurance                                       | <span style="background-color: yellow;"></span> |
|                            | 17. Data cleaning   | <span style="background-color: yellow;"></span> |
|                            | 18. Missing data  | <span style="background-color: green;"></span>  |
|                            | 19. Financing   | <span style="background-color: yellow;"></span> |
|                            | 20. Protection, security and safeguards                     | <span style="background-color: green;"></span>  |
| Additional Requirements    | 21. Interoperability and readiness for data linkage         | <span style="background-color: yellow;"></span> |
|                            | 22. Data sources  | <span style="background-color: green;"></span>  |
|                            | 23. Ethics  | <span style="background-color: green;"></span>  |







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Registry Evaluation and Quality Standards Tool (REQuest)

## 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).  |