

#### ERICA: WP3 Patient centred research and Patient Reported Outcome Measures

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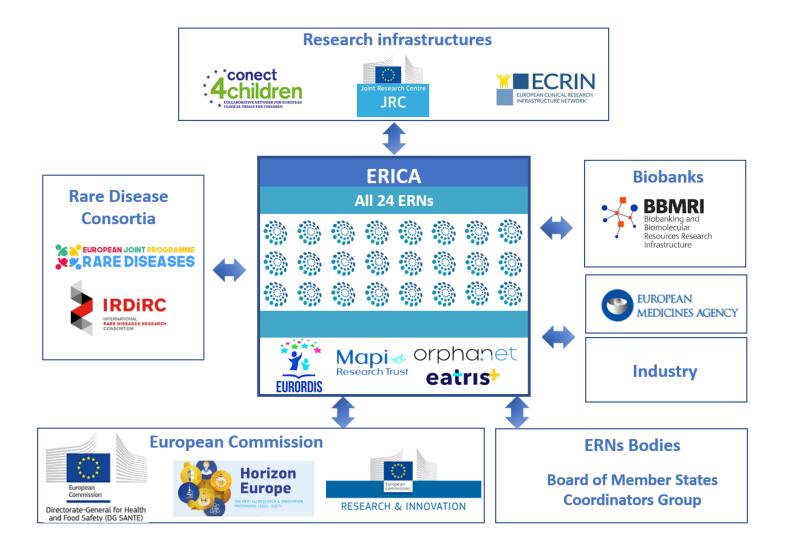
Vall d'Hebrón Research Institute and ORPHANET

#### Tuesday 14th September 2021











## **Types of Clinical Outcomes Assessments (COAs)**

- **Patient-reported outcomes (PRO):** measurements based on data provided by patients, or proxies, regarding their health condition.
- **Clinician-reported outcomes (ClinRO)**: based on a trained health-care professional's report following observation of a patient's health condition.
- **Observer-reported outcomes (ObsRO):** measurements based on an observation by someone other than the patient or a health professional who is in a position to regularly observe and report on a specific aspect of the patient's health.
- **Performance outcomes (PerfO):** measurements based on a task performed by a patient according to instructions administered by a health care professional.
- **Biomarkers:** physiologic, pathologic or anatomic patient characteristics measured by an automated process or algorithm as an indicator of normal biologic processes, pathologic processes, or biological responses to a therapeutic intervention

IRDiRC Report on Patient-Centered Outcome Measures. Initiatives in the Field of Rare Diseases. February 2016



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#### WP3: Patient centered research

- to create a central repository of validated common and domain specific RD PCOMs/PROMs for ERNs
- to define priority areas for future PCOMs/PROMs development
- to support ERNs in the implementation of validated instruments for PCOMs/PROMs

PCOM: Patient Centered Outcome Measures PROM: Patient Reported Outcome Measures



## WP3: Patient centered research

- Task 3.1: Strategic steering of identification, development and implementation of patient-centered outcome measures in ERNs-lead clinical research (VHIR, INSERM/Orphanet);
- Task 3.2: State of the art of available PCOMs/PROMs and overlap/gap analysis (INSERM/Orphanet; Mapi Research Trust, VHIR, EURORDIS, ERNs coordination teams);
- Task 3.3. Supporting ERNs on implementation of validated instruments for PCOMs/PROMs ((VHIR, INSERM/Orphanet, SERMAS, interested ERNs).



#### Task 3.2. State of the art of available PCOMs/PROMs and overlap/gap analysis

- Orphanet and Mapi Research Trust will map existing validated tools for PCOMs/PROMs in RDs using ORPHANET alignments of RD nomenclature with other terminologies, including the expansion to functional consequences of RDs.
- Literature review and Survey among ERNs to identify succesful use cases of PCOMs implementation / on-going initiatives for PCOMs development or validation

(acute episodes, ...)

degree of severity

(L: low, M: moderate,

S: severe, C: complete,

U: unspecified) frequency

(VF: very frequent: >80%,

F: frequent: 30-80%.

ability limiting

the activity

(e.g. degenerative

disease)

of a skill

degree of severity

(L: low, M: moderate.

S: severe, U: unspecified)

frequency

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## Task 3.2. State of the art of available PCOMs/PROMs and overlap/gap analysis

- Categorize RD given their functional consequences and impact on daily life based on ORPHANET Disability Questionnaire
- Questionnaire completed by RD experts: clinicians and patients representatives during phone interviews
  Permanent limitation Delay in acquisition Transient limitation Loss of an

(activity limitation)

degree of severity

(L: low, M: moderate,

S: severe, C: complete,

U: unspecified)

frequency

(VF: very frequent: >80%,

F: frequent: 30-80%.

 Functional consequences are indexed/annotated according to their severity, frequency and temporality

			O: occasional: <30%)	O: occasional: <30%)	O: occasional: <30%))	
	Yes	No				
examples:						
Are they impaired in their ability to receive a message?	$\bowtie$		L(F), S(O)		C(F)	$\bowtie$
Are they impaired in their ability to learn?	$\bowtie$		M(F)	L (O)		
<b>1</b> – Are the patients affected in their abilities to <b>understand</b>				24 . 26		
and learn?						
if your answer is « Yes », please reply to the questions below						
if your answer is « No », please go directly to question 2						
Are they impaired in seeing/watching?						
Are they impaired in hearing/listening?			***************************************	•		
Are they impaired in <u>learning</u> ?						
Do they have difficulties acquiring language (oral language/						
sign language)?						
Do they have difficulties learning to read (text/Braille)?						
Do they have difficulties learning to write (text/Braille)?					-	
				t	+	



#### Task 3.2. State of the art of available PCOMs/PROMs and overlap/gap analysis

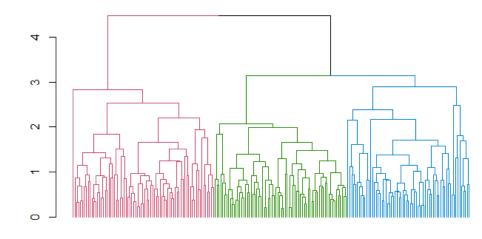
- Starting point: systematic accumulation of standardized information based on the Orphanet disability questionnaire (ICF adopted)
- 566 RDs coded for impact on function through a full set of 113 items grouped in 10 principal subjects describing patients' functional limitations:
  - 1. Understanding
  - 2. Communication with others
  - 3. Motor skills
  - 4. Self-care
  - 5. Sleeping/Staying awake

- 6. Temperament and behaviour
- 7. Moving around
- 8. Interpersonal skills
- 9. Daily activities
- 10. Social life

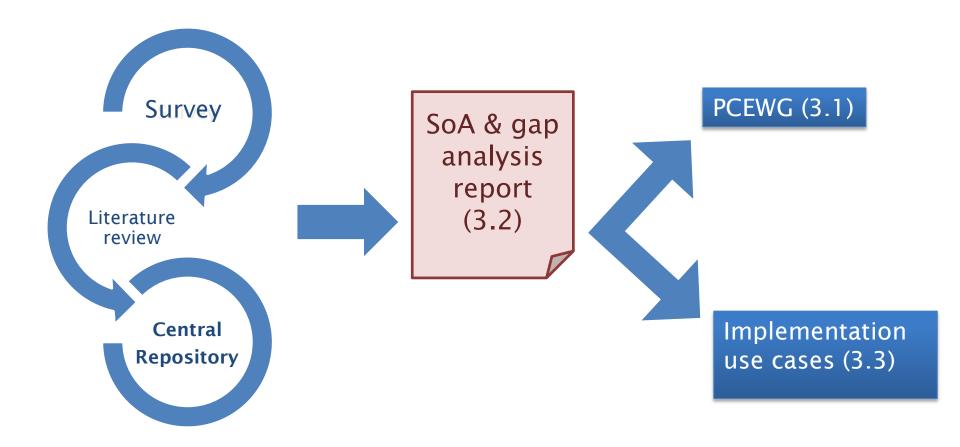


# Task 3.2. State of the art of available PCOMs/PROMs and overlap/gap analysis

- Categorize rare disease given their functional consequences and impact on daily life- based on ORPHANET Disability Questionnaire
  - Clusters of diseases sharing similar phenomenology
  - Functions and group of functions relevant to Clusters
  - Describe Patterns of functional impairment Shared within clusters
- Define coding rules of COA instruments (still based on these functions)
- Prioritize targeted functions to be captured
- Identify instruments that match the needs and gaps







#### PCEWG: Patient Centered Expert Working Group



European Rare Disease Research Coordination and Support Action

## Thank you!