EUROPEAN REGISTRIES FOR RARE ENDOCRINE AND BONE CONDITIONS: ELECTRONIC TOOLS FOR MAPPING AND STUDYING RARE DISEASES

Cherenko M, Priego Zurita AL, de Rooij TM, Ahmed SF, Appelman-Dijkstra NM











The Evolution of EuRRECa and EuRR-Bone



















Phase 1a

Phase 1b

Phase 2

Phase 3

2016

2017

2018

2019

2020

2022

)

2023

2024

Endo-ERN ERN BOND approved

EuRRECa approved

e-REC

Core Registry Bone uses EuRRECa platform

EuRR-

Condition specific modules launched

Original EuRRECa project funding ends Original
EuRR-Bone
project
funding
ends

Supported by Endo-ERN & ERN BOND





Transfer of
Registries
from Glasgow
to Leiden

Project

Management Team

and ICT team

transferred to

Leiden

EuRREB





www.eurreb.eu









Welcome

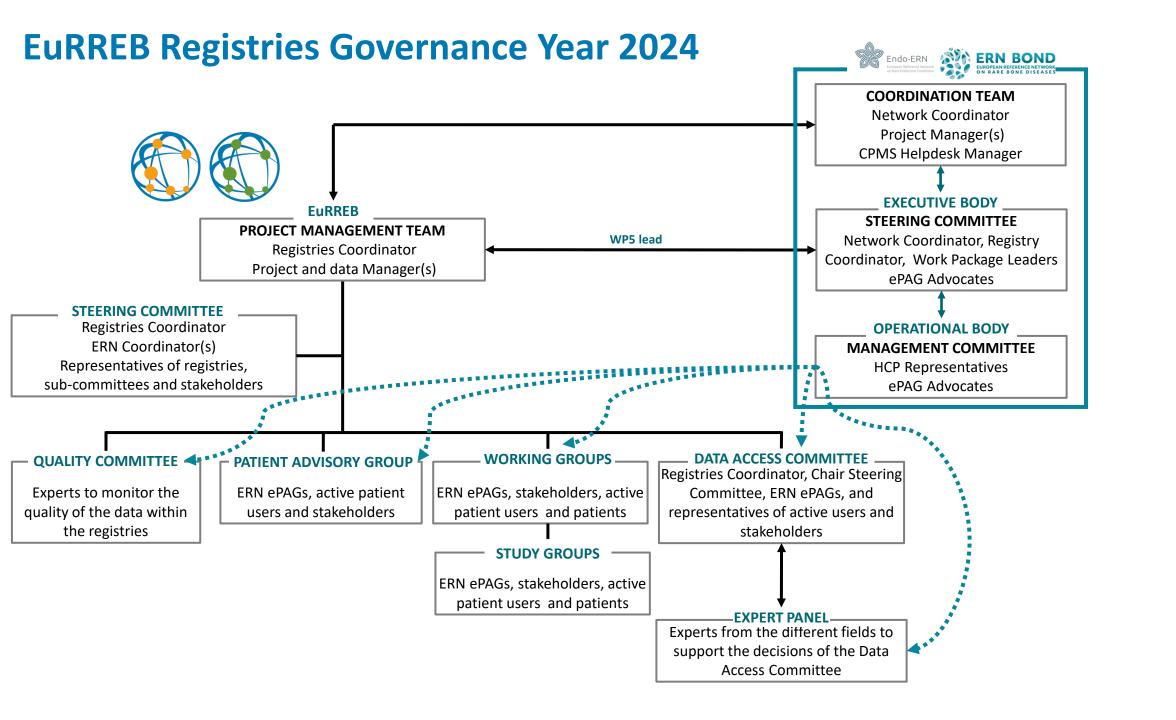
EuRREB – the European Registries for Rare Endocrine and Bone conditions consists of EuRRECa and EuRR-Bone. The registries aim to maximize the opportunity for all patients, healthcare professionals, and researchers to participate and use high quality, patient-centred registries for rare endocrine and bone/mineral conditions. We work closely together with Endo-ERN and ERN BOND and are supported by patients, researchers, clinicians, scientific societies, patient societies to build this database.

Upcoming Events

Joint Congress of ESPE and ESE 2025
May 10th - May 13th, 2025

ERN BOND General Assembly
September 11th, 2025

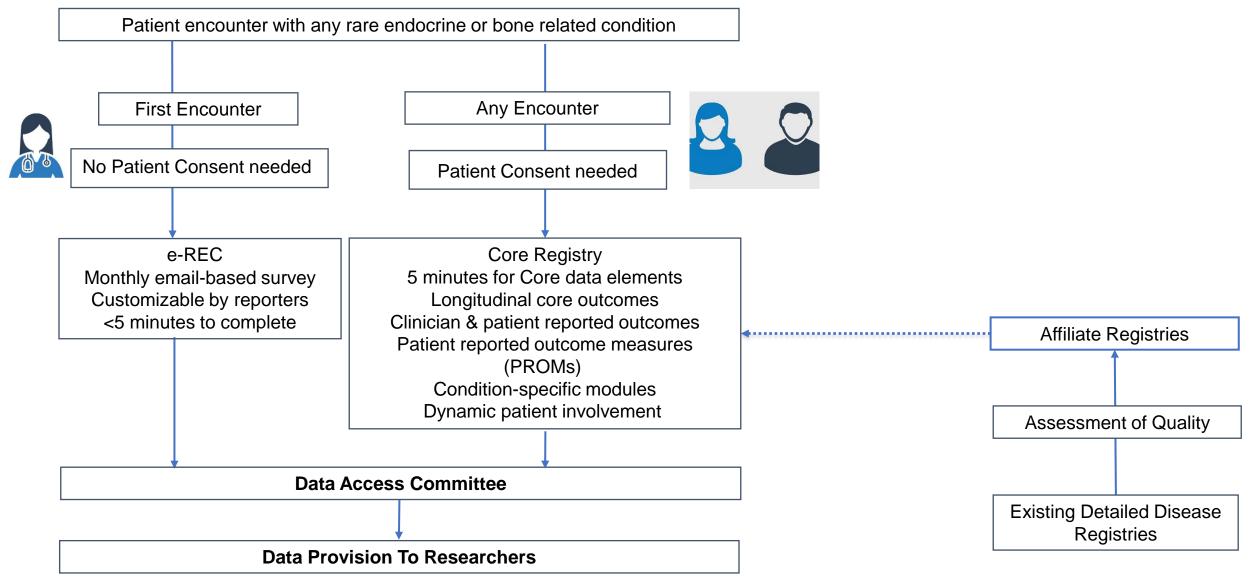
EuRREB Symposium 2025
September 12th, 2025



The Registries in a Nutshell







e-REC





e-REC: Live Case Count









≡ e-Reporting of Rare Conditions (e-REC)

Returns Reporting Setup Centre Reporters Centre Users Return Periods Reporting Centres Users Pending Approvals Reference Data 🕶

✓ Total number of cases in e-REC by condition group

Condition group	Children(<18)	Adults(≥18)	Total
ADRENAL	778	3905	4683
BONE DYSPLASIA	768	1019	1787
CALCIUM & PHOSPHATE	454	2074	2528
GENETIC ENDOCRINE TUMOURS (incl. NETs)	232	1359	1591
GLUCOSE & INSULIN	862	440	1302
GROWTH & OBESITY	1156	120	1276
HYPOTHAL & PITUITARY	1204	11952	13156
SEX DEVELOPMENT	5058	3738	8796
SYSTEMIC & RHEUMATOLOGICAL	0	1	1
THYROID	1368	7100	8468
TOTAL	11880	31708	43588

🔓 Login		
e-REC User Name		
Password		
Forgotten password? To reset your pas	sword please click on the following F	Reset Password link
	+) Log in	
♣ New Users		
New Osers		

To request access to the system please click on the following Self-Registration link

For further information visit www.eurreb.eu or contact us at registries@lumc.nl











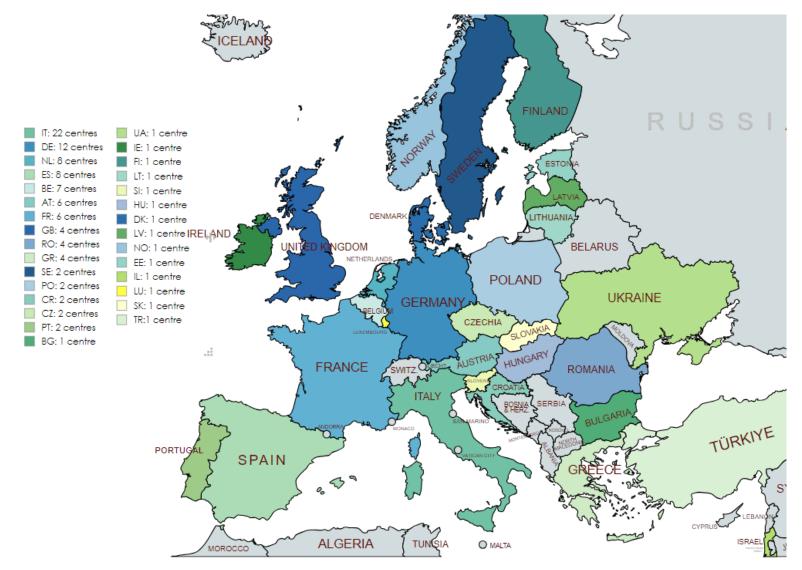




This website is part of the project '777215 / EuRRECa' and '946831 / Eurr-Bone' which have received funding from the European Union's Health Programme (2014-2020). The content of this website cannot be considered to reflect the views of the European Commission and/or the Consumers, Health, Agriculture and Food Executive Agency or any other body of the European Union. The European Union. The European Union. The European Union and the Agency do not accept any responsibility for use that may be made of the information it contains. Project: 101157116 (ERN BOND); EU4H-2023-ERN2-IBA-01.

Centres Reporting in e-REC





July 2018 – October 2024

Active reporters

107 centres from 31 countries (5 non-EU)

HCPs ERN affiliation

Endo-ERN only - **56**Endo-ERN and ERN BOND - **29**ERN BOND only - **3**Not affiliated to either – **19**

Number of patients in e-Rec:

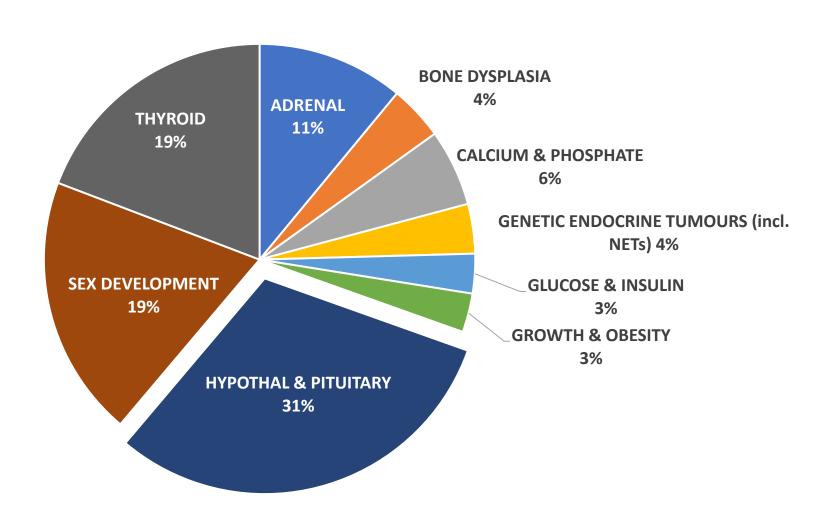
45476 cases (33364 in adults, 12112 in children)

Full annual report at <u>eurreb.eu</u>

e-REC Data Jul 2018-Oct 2024



Cases (n=45476)



Core Registry





Levels of Participation in the Core Registry





2 Generic outcomes

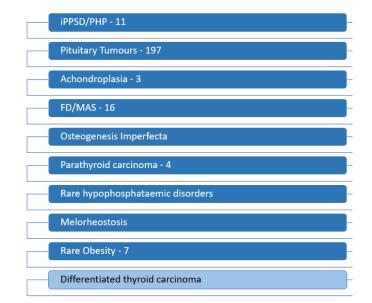
3 Diagnosis-specific outcomes



EQ-5D
Adult - 10 languages
Youth - 7 languages
WHO ICF
English

MSK-HQ
6 languages
BPI SF
10 languages

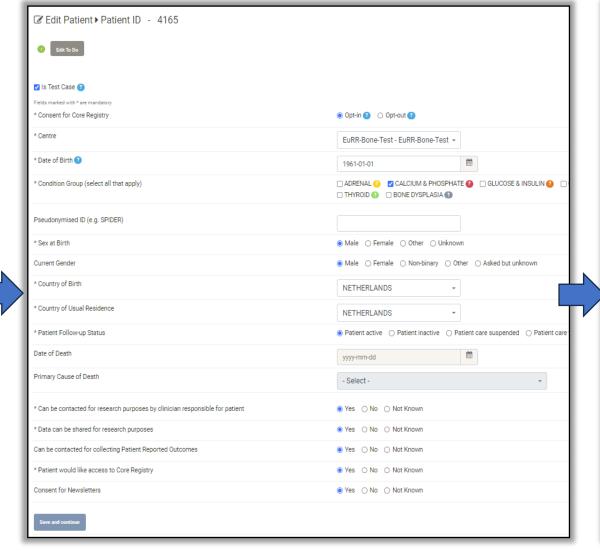
OHIP-14
4 languages



Patient

Common Data Elements

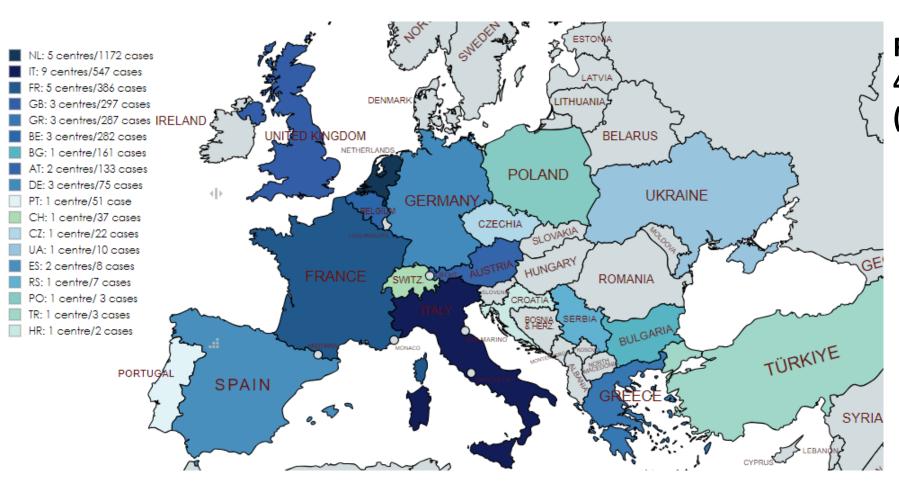




☑ Edit Patient Condition ▶ Patient ID - 4165 🛗 Date of Birth - 1961-01-01						
€dit To Do						
Calcium and Phosphate Senior Clinician < 18 - N/A						
Senior Clinician ≥ 18 - N/A						
e-REC ID ②						
* First Contact with Centre 3	yyyy-mm-dd					
* Clinician Responsible for Patient 🕗	Not Assigned +					
* Date of First Clinical Manifestations ②	yyyy-mm-dd					
* Primary Condition	Hyperparathyroidism including parath	ıyr 🕶				
* Specific Diagnosis	Parathyroid carcinoma	*				
The full hierarchy of Conditions and Specific Diagnoses can be found in the Core Registry Conditions Dictionar	у					
How Was Diagnosis Reached 1	☐ Clinical ☐ Biochemistry ☑ Genetic ☑	Histology CT MRI				
* Date of Diagnosis 2	yyyy-mm-dd	m				
Participation in another Detailed Disease Registry	○ Yes No ○ Not Known					
Name of Detailed Disease Registry						
Detailed Disease Registry Patient ID						
* Biobank Sample Available for Research	○ Yes ○ No ○ Not Known					
Biobank Details						
Biobank Patient ID						
Save						

Centres Reporting in the Core Registry





From Oct 2019 till Oct 2024: 48 centres from 20 countries (5 non-EU)

HCPs ERN affiliation:

Endo-ERN only **14**Endo-ERN and ERN BOND **14**ERN BOND only **4**Not affiliated to either **16**

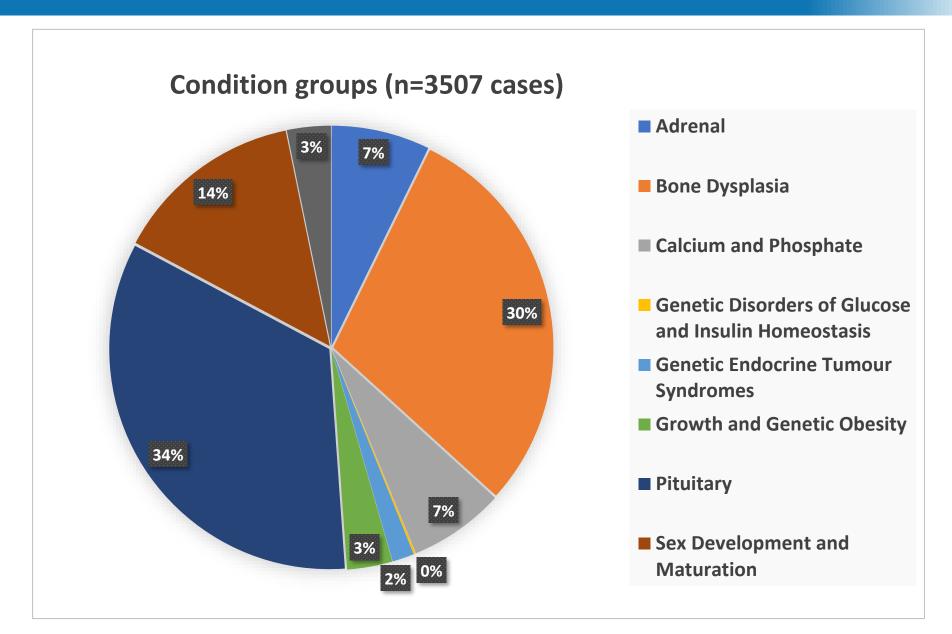
3507 cases

Full annual report at eurreb.eu

Centres Reporting in the Core Registry





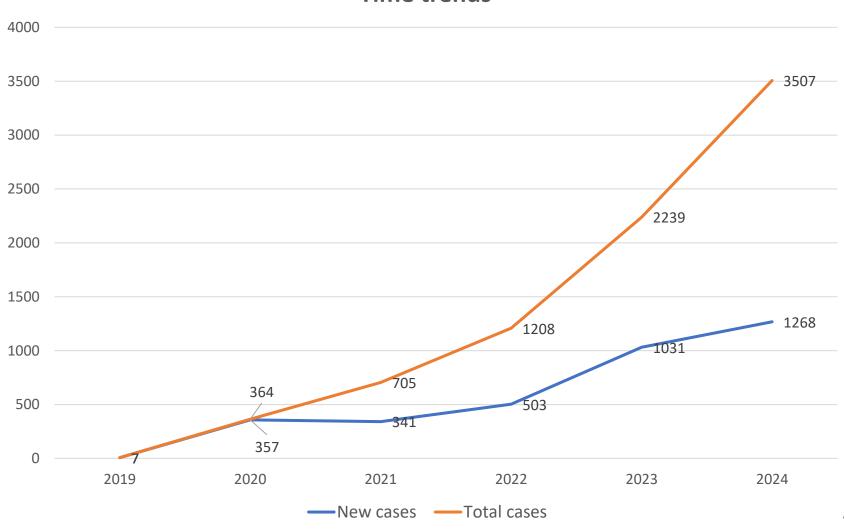


Reporting in the Core Registry









Condition-Specific Outcomes within EuRREB





Developing the Condition-Specific Module









Consensus

- Secondary survey
- Meetings
- Final dataset

Plan

- From the dataset to the platform
- Developments

Build

Beta version

Test

- Feedback
- Final changes

Live version

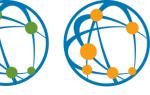
Available for users

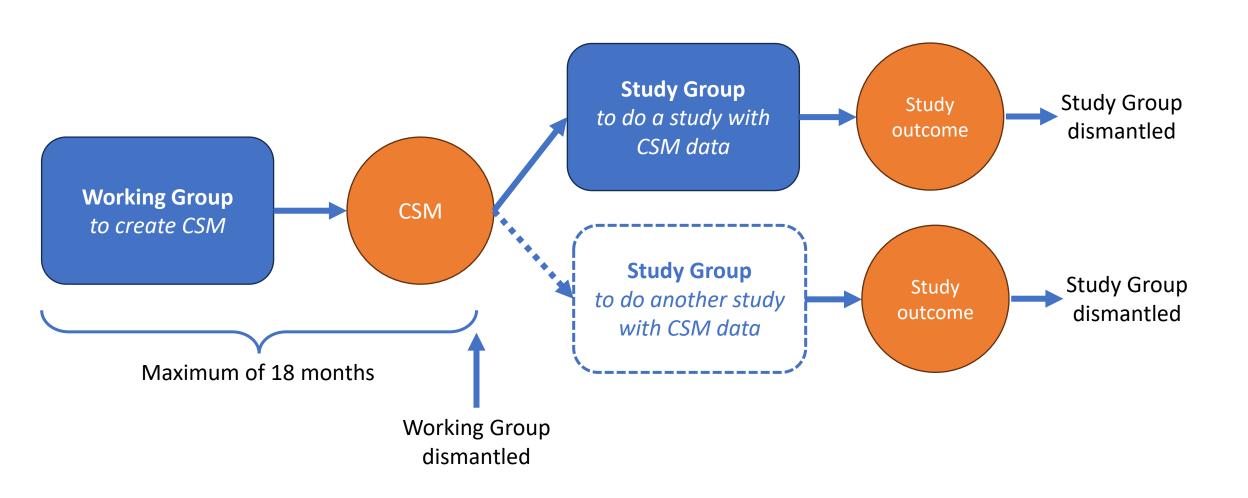
Patients

Clinicians

Study Groups and Working Groups







Condition-Specific Modules





N	CSM	MTG	Year	N patients in CR	Outcomes completed	Study group lead
1	iPPSD/PHP	MTG2	2021	32	11	Agnès Linglart/Diana-Alexandra Ertl
2	Pituitary Adenoma	MTG6	2021	739	1114	Alberto Pereira
3	Achondroplasia	BD	2022	174	125	Klaus Mohnike/ Ines Alves
4	FD/MAS	BD	2022	642	1406	Natasha Appelman-Dijkstra
5	Osteogenesis Imperfecta	BD	2022	107	26	Wolfgang Hoegler
6	Parathyroid Carcinoma	MTG2	2022	14	15	Maria Luisa Brandi
7	Rare Hypophosphataemia	MTG2	2023	84	61	Agnès Linglart/Diana-Alexandra Ertl
8	Melorheostosis	BD	2023	20	18	Luca Sangiorgi/Martine Cohen-Solal
9	Rare Obesity	MTG5	2023	68	10	Erica van den Akker
10	Gender Incongruence	MTG7	2023	152	159	Martine Cools/Silvia Ciancia
11	Pediatric Differentiated Thyroid Carcinoma	MTG8	2024	66	30	Hanneke van Santen/ Sarah Clement
12	Langerhans Cell Histiocytosis	Sys	2024/2025	0	0	Polyzois Makras
13	Chronic Nonbacterial Osteomyelitis	Sys	2024/2025	0	0	Elizabeth Winter
14	ROHHAD(NET)	MTG5	2024/2025	0	0	Mehul Dattani

Patient Platform





Patient Details

This is a copy of the data held in the Core Registry relating to your case. If you want to request changes or corrections to this data please contact the System Administrator: registries@lumc.nl

* Some of your requested questionnaires are now due, please fill them in by following the highlighted tabs.

Patient Info	CALCIUM & PHOSPHATE	* Outcomes - CALCIUM & PHOSPHATE	SEX DEVELOPMENT	BONE DYSPLASIA	Outcomes - BONE DYSPLASIA	Centre	Patient Reported Outcomes - EQ-5D	* Patient Reported Outcomes - Generic	Settings
Patient Registry ID							4004		
Consent Ty	pe for Registry							Opt-in	
Date added	d to Registry							2022-06-21	
Date of Bir	th							1998-12-08	
Pseudonyr	mised ID (e.g. SPIDER)								
Sex at Birt	h							Female	
Current Ge	ender							Female	
Country of	Birth							NETHERLANDS	
Country of	Usual Residence							NETHERLANDS	
Patient Fol	low-up Status							Patient active	

Edit Account Details

Change Passwo

Request Deletion of Dat

Patient Platform





(i) / Patients / Tools and Outcomes

PROMs - Patient Reported Outcome Measures

Patient Reported Outcome Measures (PROMs) are like special surveys that help doctors understand how patients feel about their health and daily life. Since there are many different types of PROMs, it can be hard to pick the right one. At EuRREB, our team of experts and patients work together to decide which quiz is best. We also consider their cost and whether they are available in different languages.

We welcome discussions about how to choose the right PROM with those interested.

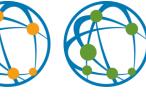
Here are some of the surveys we use in our platform:

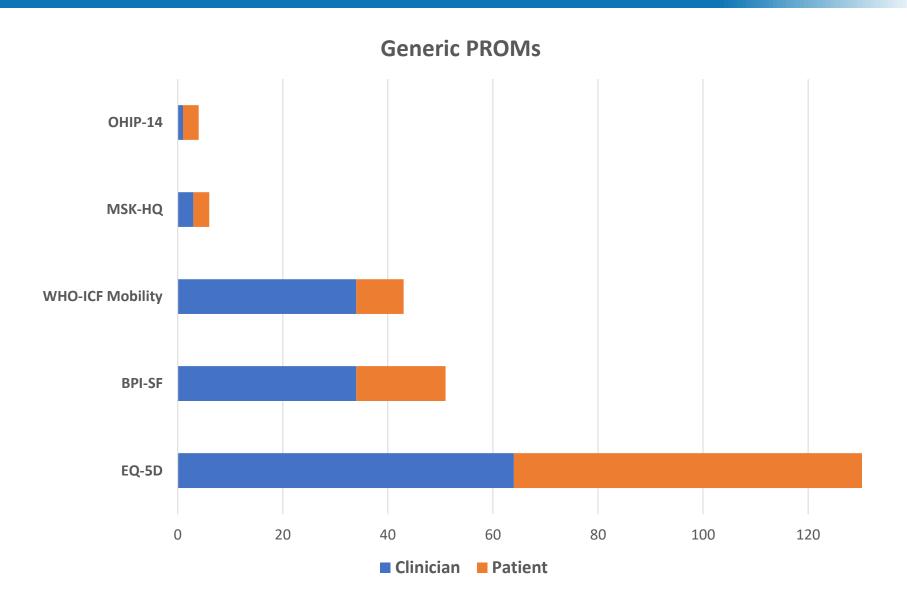
- EQ-5D This survey helps people talk about their overall health and well-being.
- BPI This survey is used to understand how much pain someone feels.
- . WHO-ICF Mobility This survey helps describe how well someone can move and do daily activities.
- MSK-HQ This survey helps people with muscle or joint problems like arthritis, talk about their symptoms.
- NPSI This survey helps figure out different types of pain that come from nerve problems.
- OHIP14 This survey allows people to share how mouth and teeth problems affect their lives.
- PHPQoL This survey helps people with calcium-related issues tell how they feel.

If you want to know more about our PROMs you can always ask your doctor or contact us at registries@lumc.nl.

Patient-Reported Outcome Measures (PROMs)







For More Information







https://www.eurreb.eu/



Online Drop-in sessions

- Every second Friday 14:00-15:00 CEST
- Every fourth Wednesday 16:00-17:00 CEST

Find the link on our homepage!





registries@lumc.nl



European Registries for Rare Endocrine and Bone Conditions

Acknowledgements





LUMC project management team

Prof. Natasha M. Appelman-Dijkstra, coordinator EuRR-Bone Prof S. Faisal Ahmed, coordinator EuRRECa Tess de Rooij, project manager Jacqueline van der Blom de Gunst, project assistant Dr. Ana Priego Zurita, quality manager Dr. Mariya Cherenko, data manager



















www.eurreb.eu

registries@lumc.nl

