

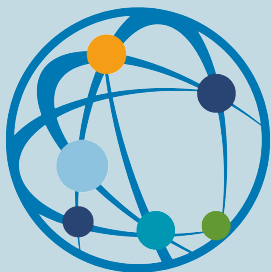


EuRREB Quality Manager

Dr. Ana Priego Zurita

Leiden University Medical Center

‘5 years of European Registries of Rare Endocrine and Bone Conditions’



EuRREB

European Registries for Rare
Endocrine and Bone conditions

Five Years of the European Registries for Rare Endocrine and Bone Conditions

Ana Priego Zurita

Quality Manager EuRREB

Leiden University Medical Center



EuRREB

European Registries for Rare
Endocrine and Bone conditions



**Funded by
the European Union**



Why Registries Matter?

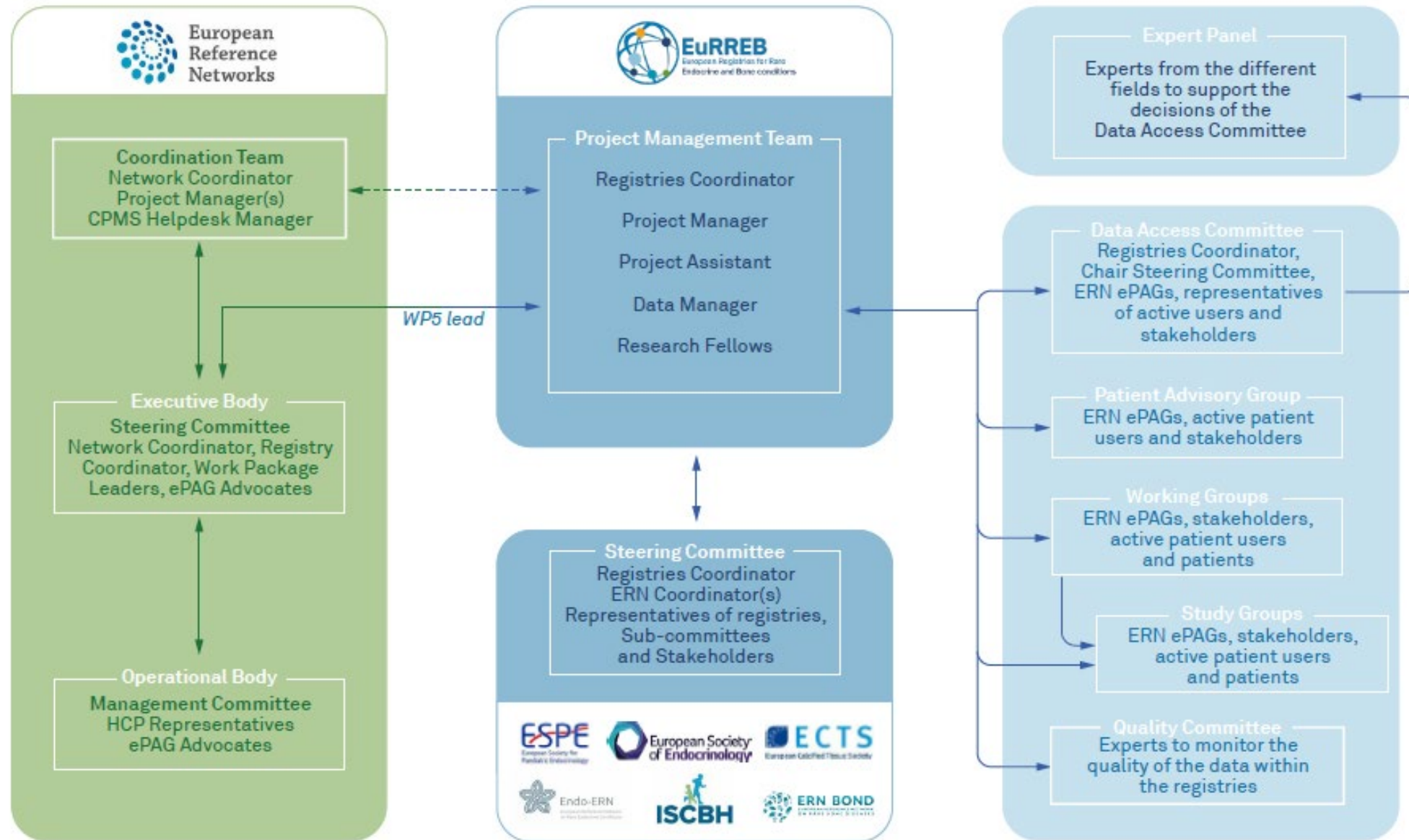
- Low prevalence of rare endocrine and bone conditions lead to fragmented knowledge
- Registries allow collection of standardised clinical information on rare conditions
- Could bring the patient voice to service planners
- Registries connect clinicians, researchers, and patients
- Enhance visibility of specialist centres, condition and other organisations



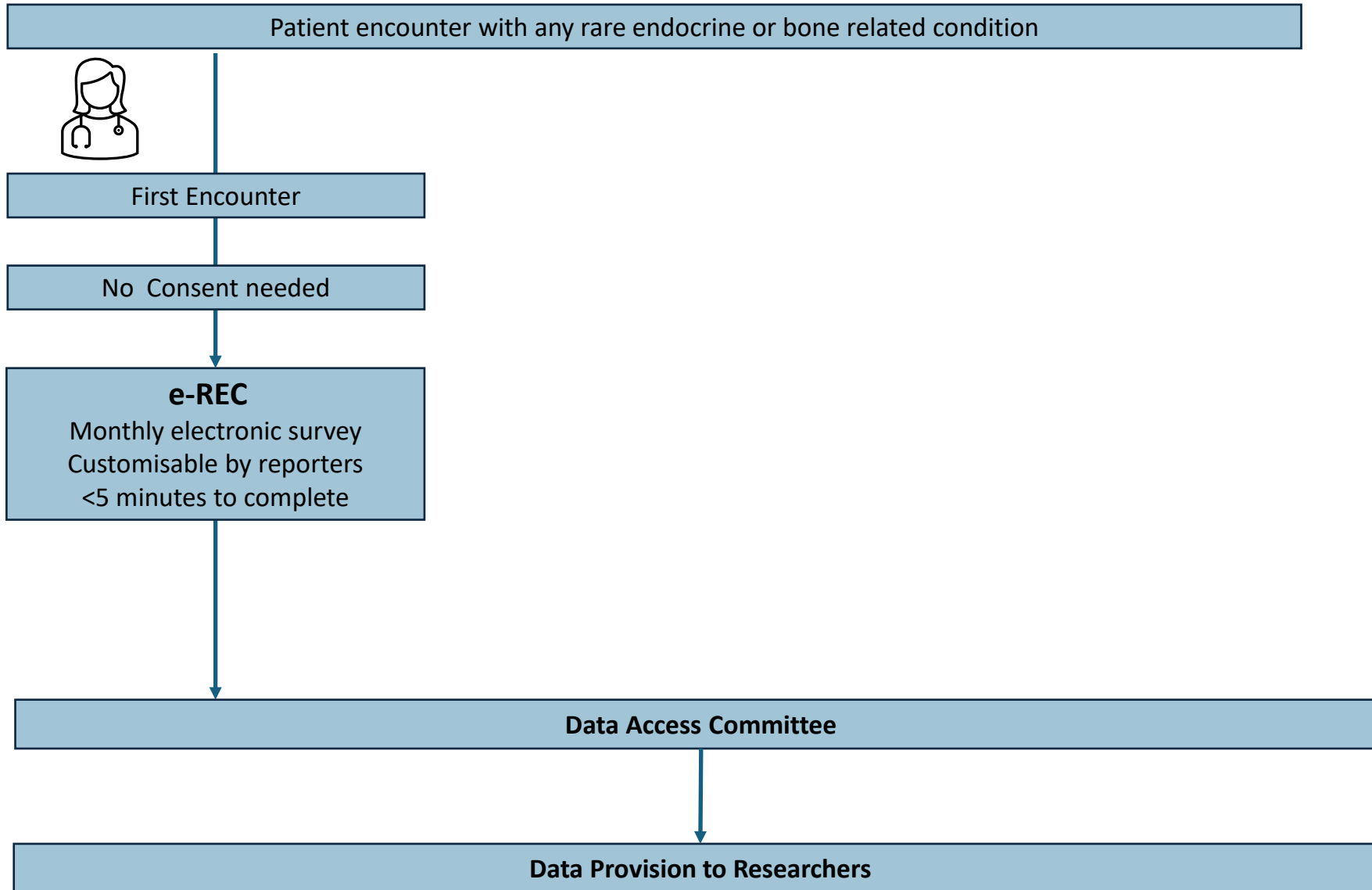
The Evolution of EuRECa and EuRR-Bone to EuRREB



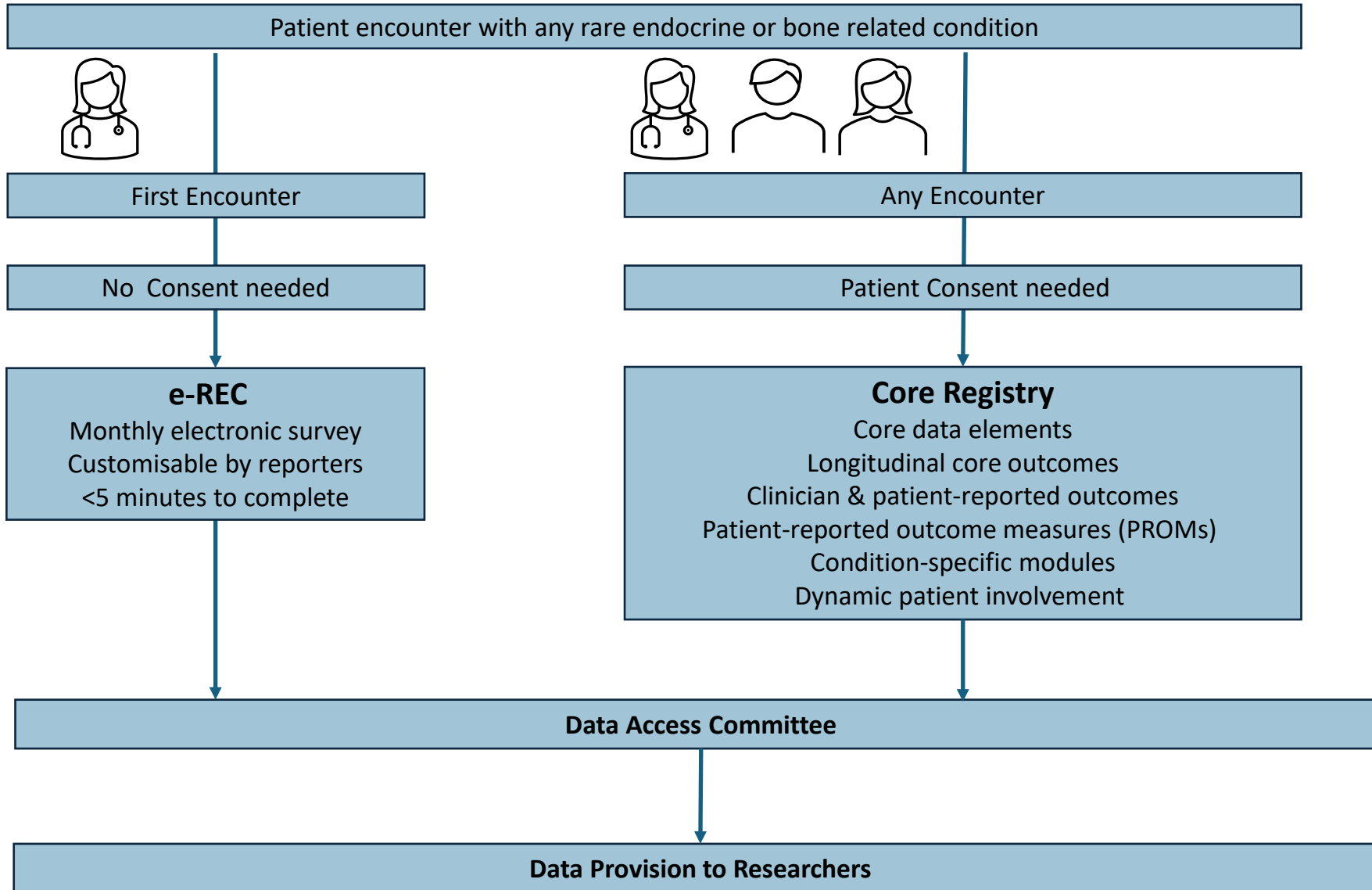
EuRREB Registries Governance



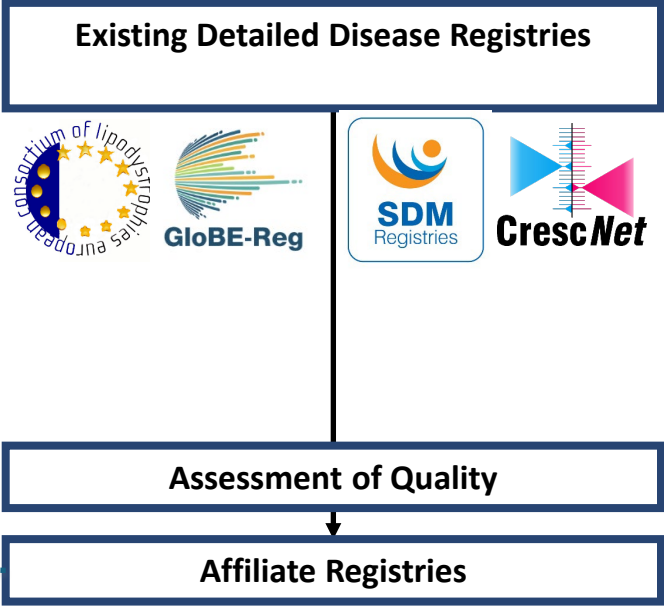
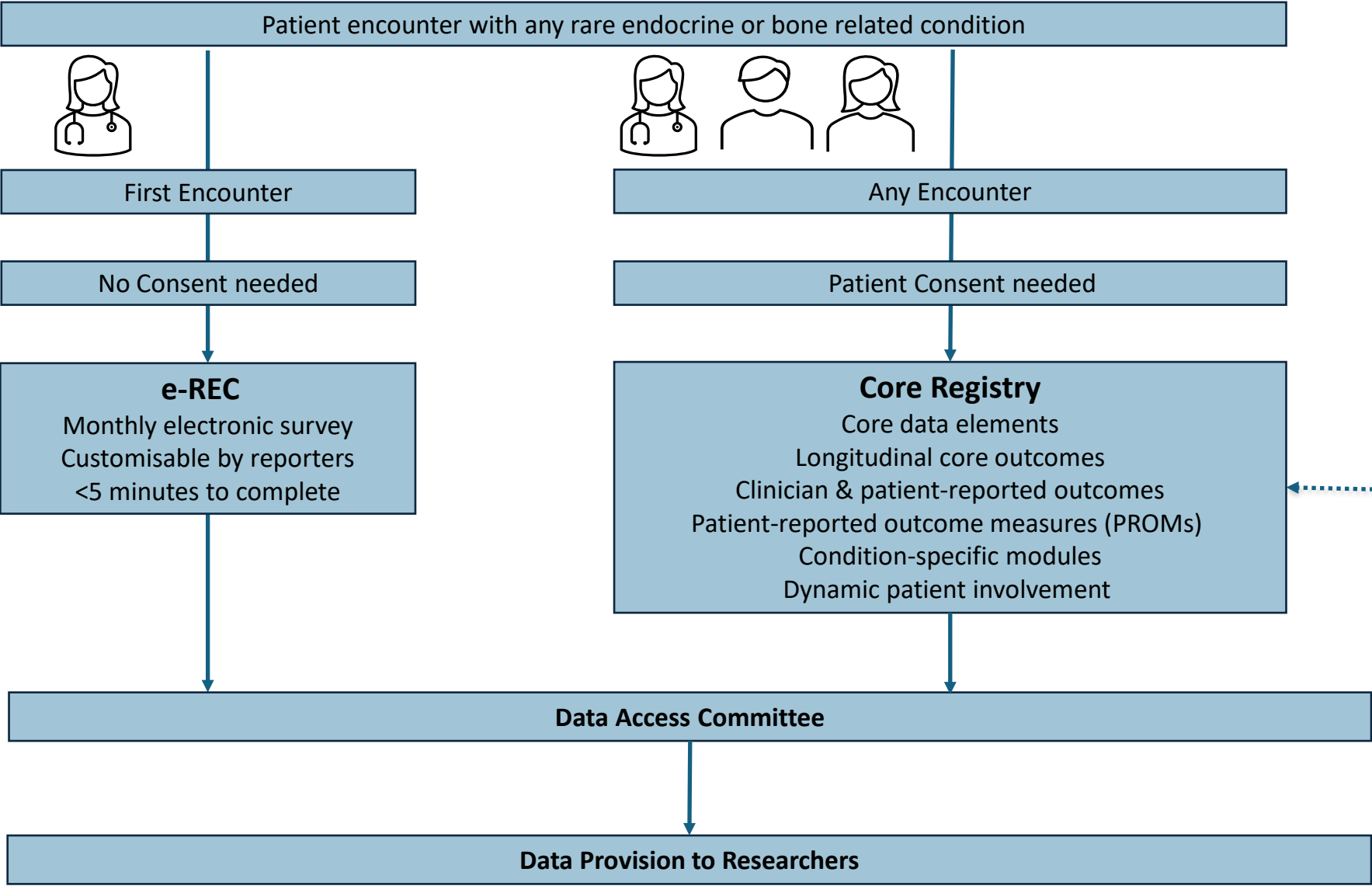
The Registries in a Nutshell



The Registries in a Nutshell



The Registries in a Nutshell



e-REC



Live Case Count



e-Reporting of Rare Conditions (e-REC)

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

Condition group	Children(<18)	Adults(≥18)	Total
ADRENAL	1014	5945	6959
BONE DYSPLASIA	1133	1675	2808
CALCIUM & PHOSPHATE	622	3064	3686
GENETIC ENDOCRINE TUMOURS (incl. NETs)	297	1932	2229
GLUCOSE & INSULIN	1106	688	1794
GROWTH & OBESITY	2620	161	2781
HYPOTHAL & PITUITARY	1645	16947	18592
SEX DEVELOPMENT	6094	5174	11268
SYSTEMIC & RHEUMATOLOGICAL	23	298	321
THYROID	2010	10899	12909
TOTAL	16564	46783	63347



Login

e-REC User Name

Password

Forgotten password? To reset your password please click on the following [Reset Password link](#)

➔ Log in

👤 New Users

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



Funded by
the European Union



European
Reference
Network



ERN BOND
EUROPEAN REFERENCE NETWORK
ON RARE BONE DISEASES



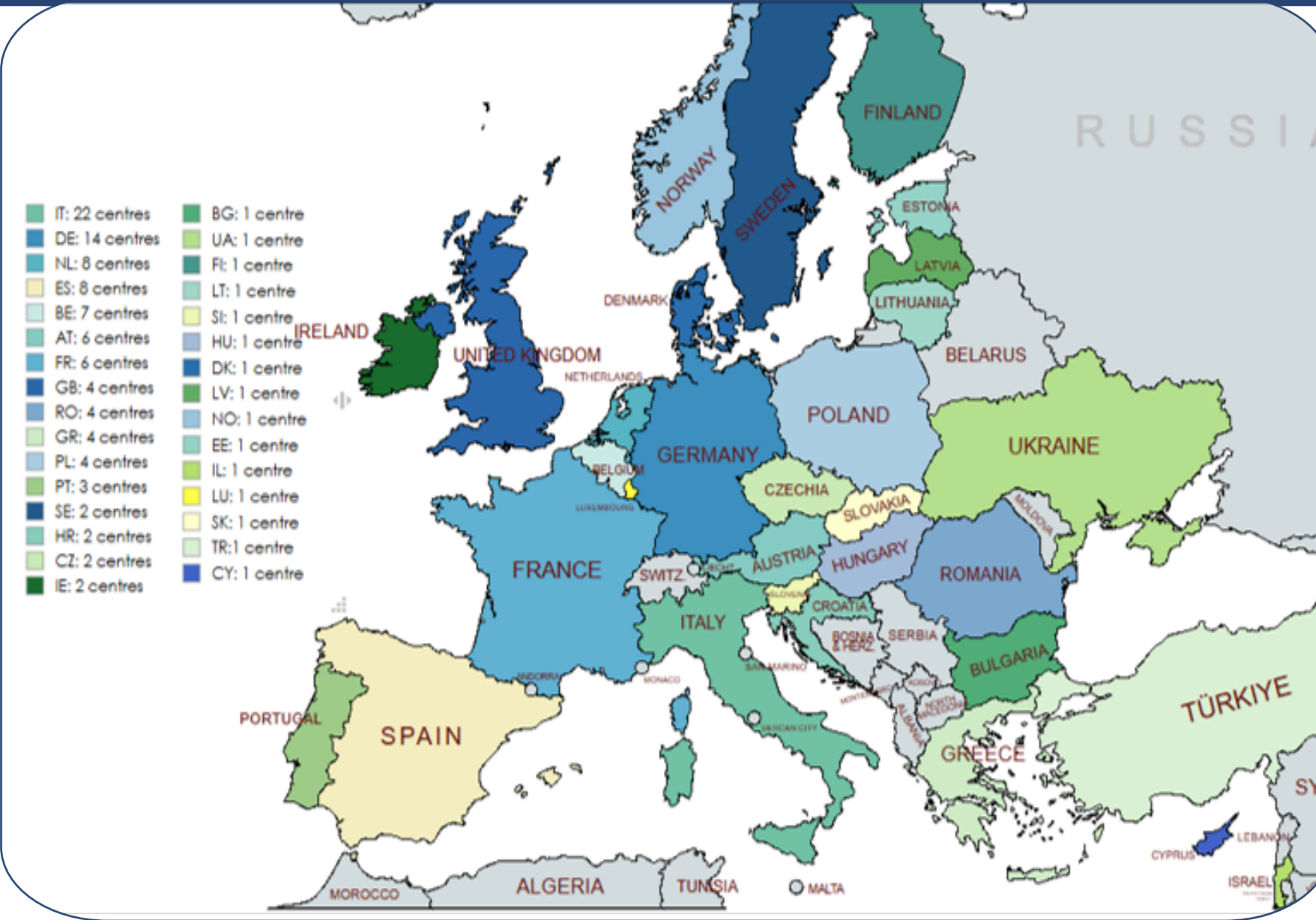
European Society
of Endocrinology



ECTS
European Calcified Tissue Society



Centres Reporting in e-REC



July 2018 – June 2025

Active reporters:

116 centres from 32 countries
(5 non-EU)

HCPs ERN affiliation

Endo-ERN only - 65

Endo-ERN and ERN-BOND - 29

ERN-BOND only - 3

Not affiliated to either – 19

Number of patients in e-REC:

61683 cases

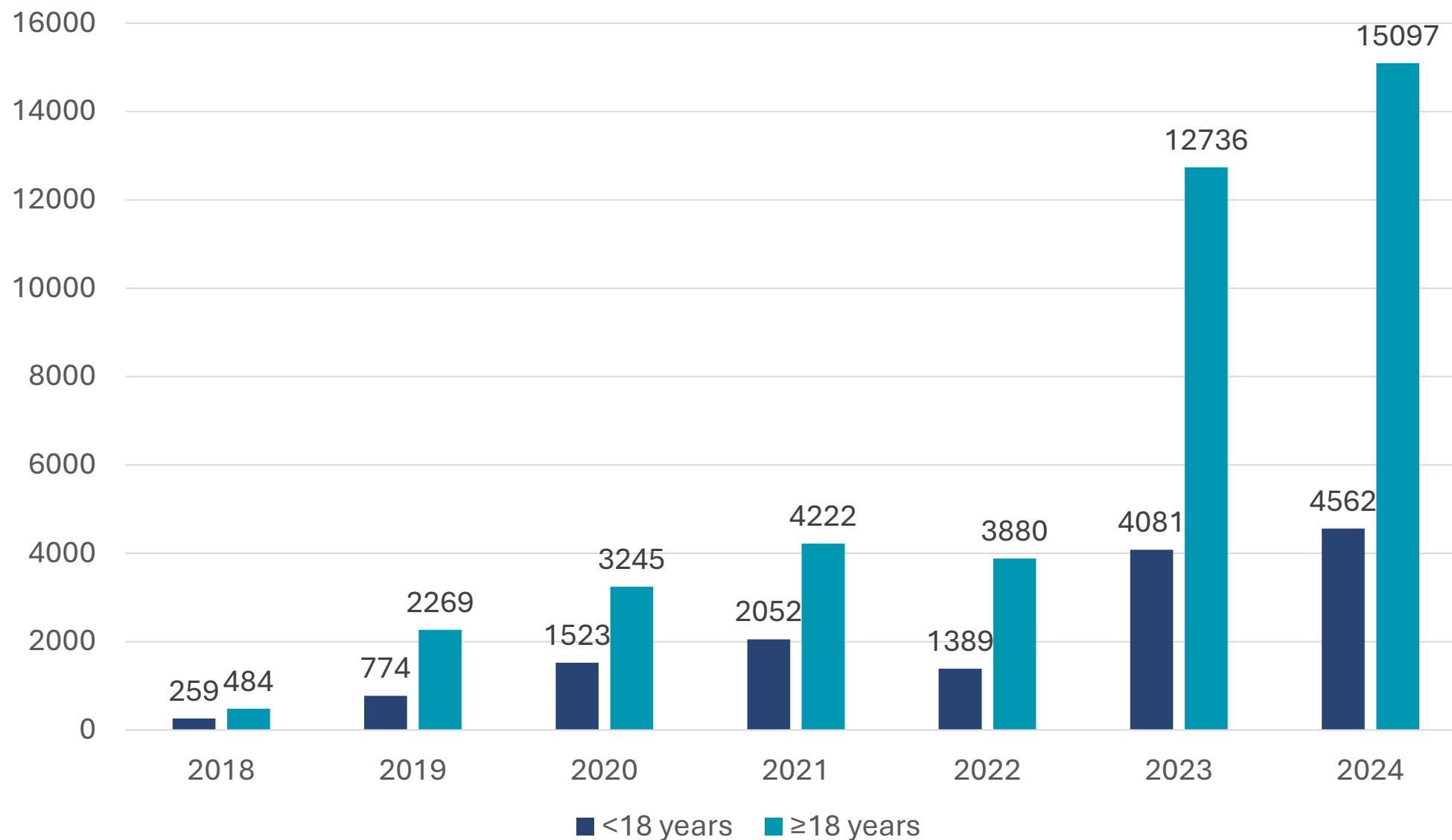
(45498 in adults, 16185 in children)

Full report at eurreb.eu



Reporting in e-REC

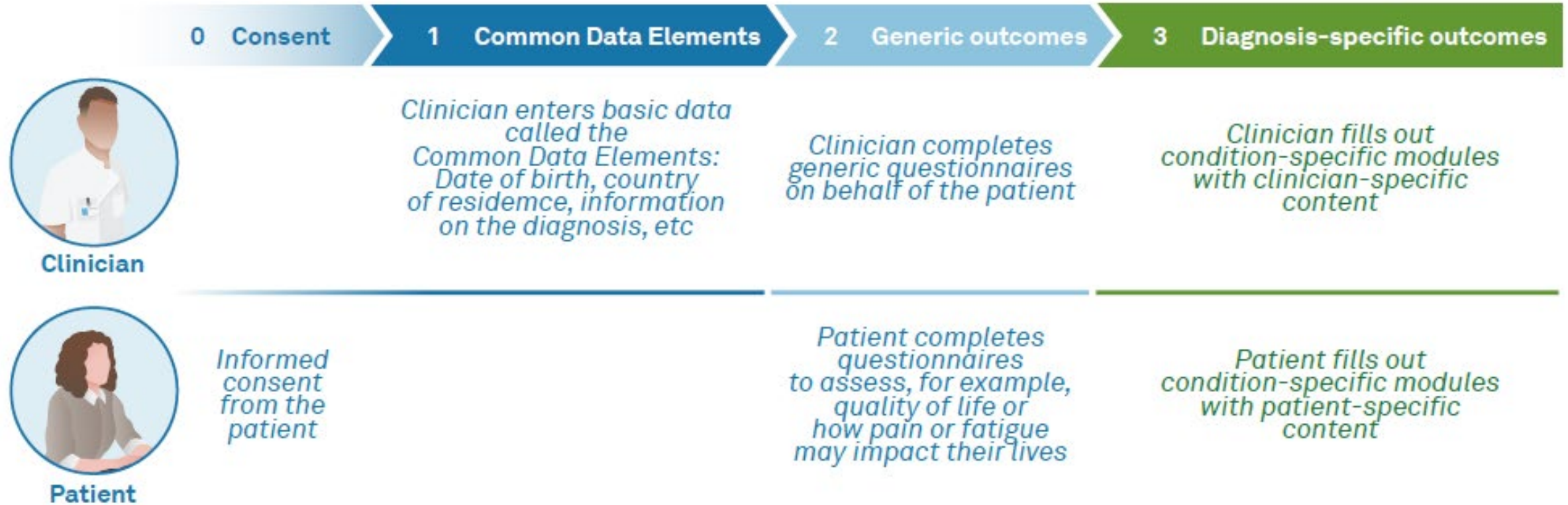
Reporting trend by age group



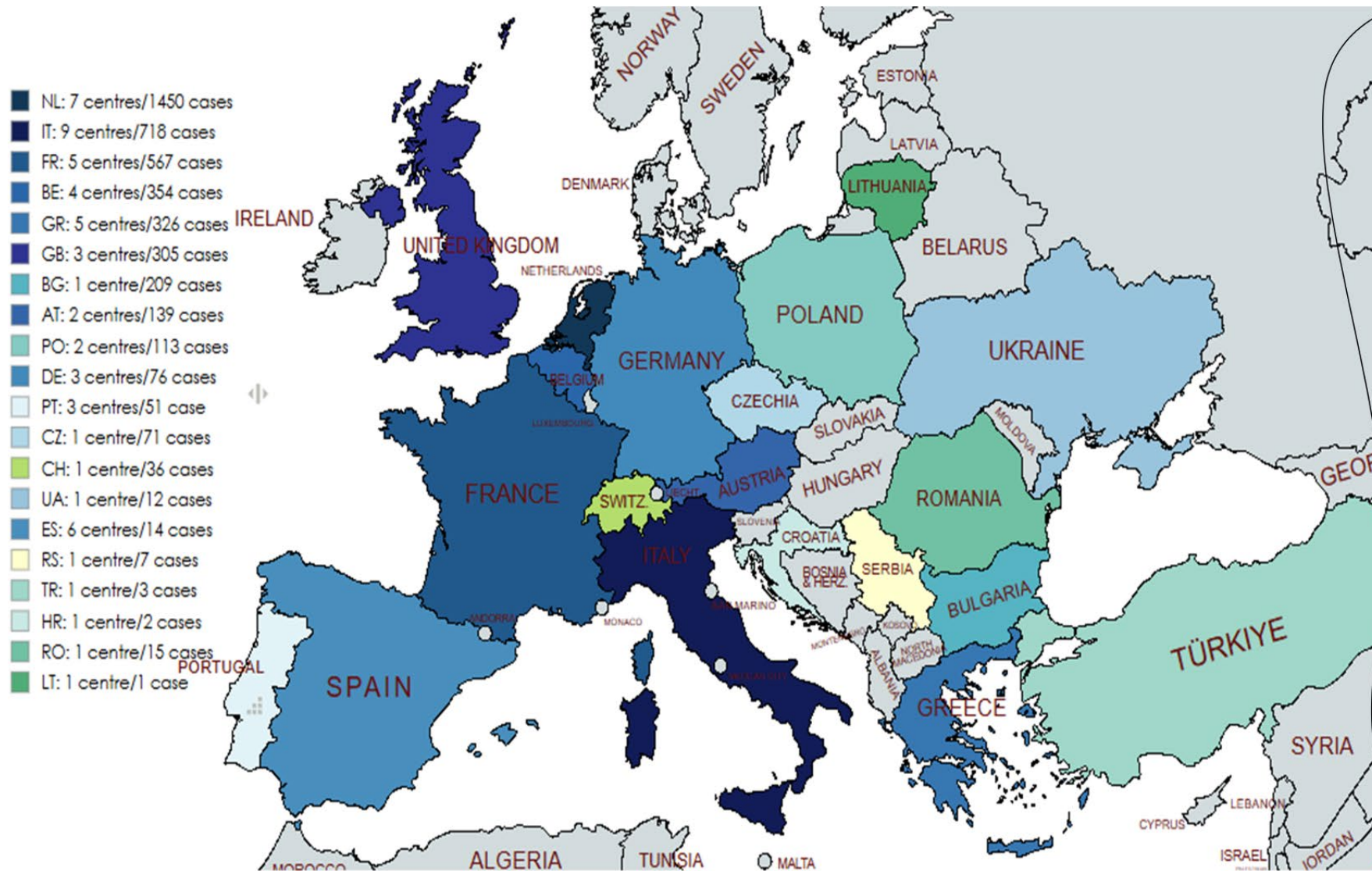
The Core Registry



Levels of Participation



Centres Reporting in the Core Registry



Oct 2019 – June 2025

60 centres from 22 countries
(6 non-EU)

HCPs ERN affiliation

Endo-ERN only 19

Endo-ERN and ERN BOND 17

ERN BOND only 4

Not affiliated to either 20

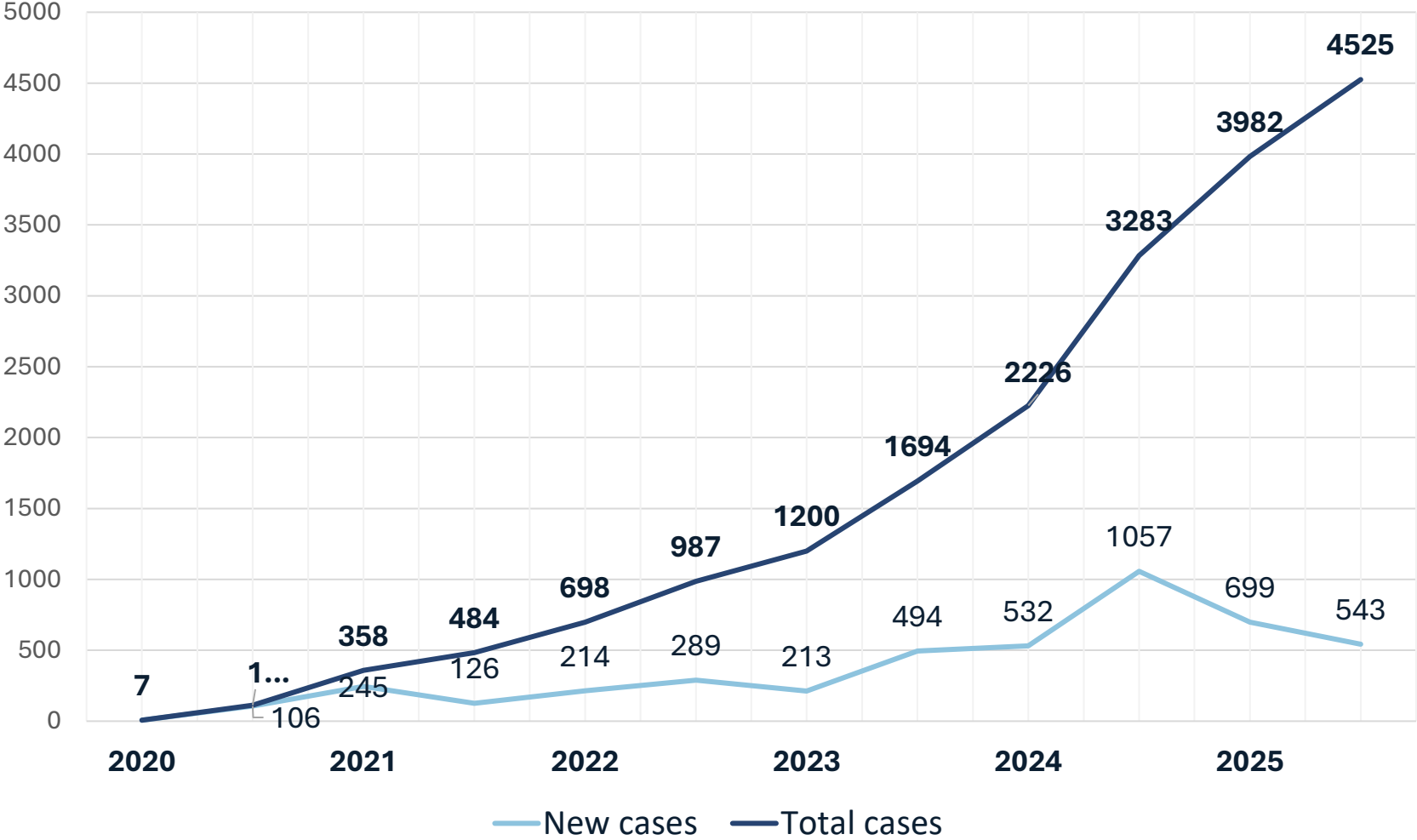
Number of patients in the Core
registry: 4480

Full report at eureb.eu



Reporting Trends

Patient Records in the Core Registry



Where Are We



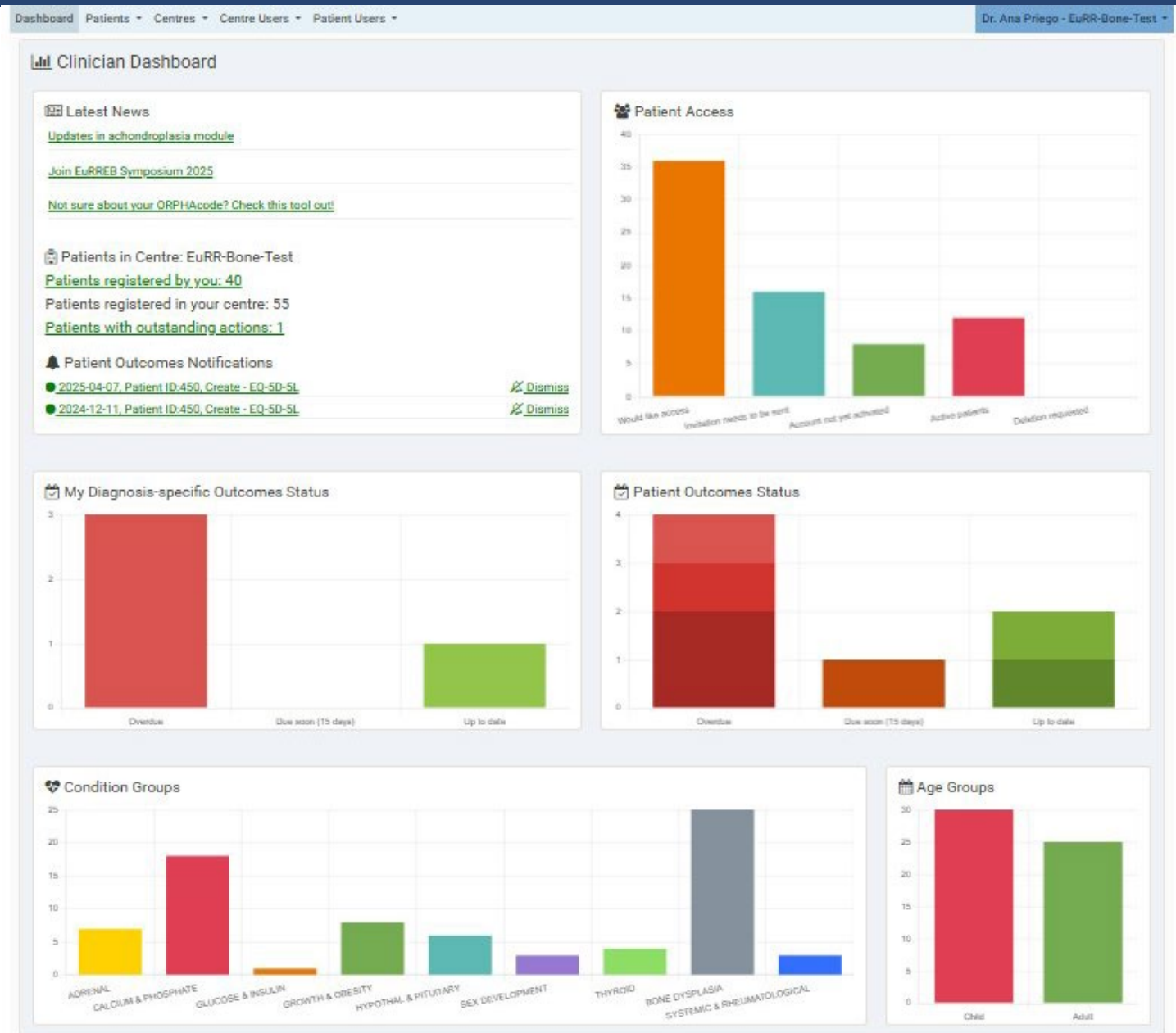
Achievements for Clinicians

- **Harmonised, high-quality data collection tools**
- **Access to working and study groups**
- **Access to condition-specific modules**
- **Network**
- **Authorship**



The Core Registry Dashboard

- Latest news
- Overview of patients in the centre
- Access to patients with outstanding actions
- Notifications and access to outcomes completed by patients

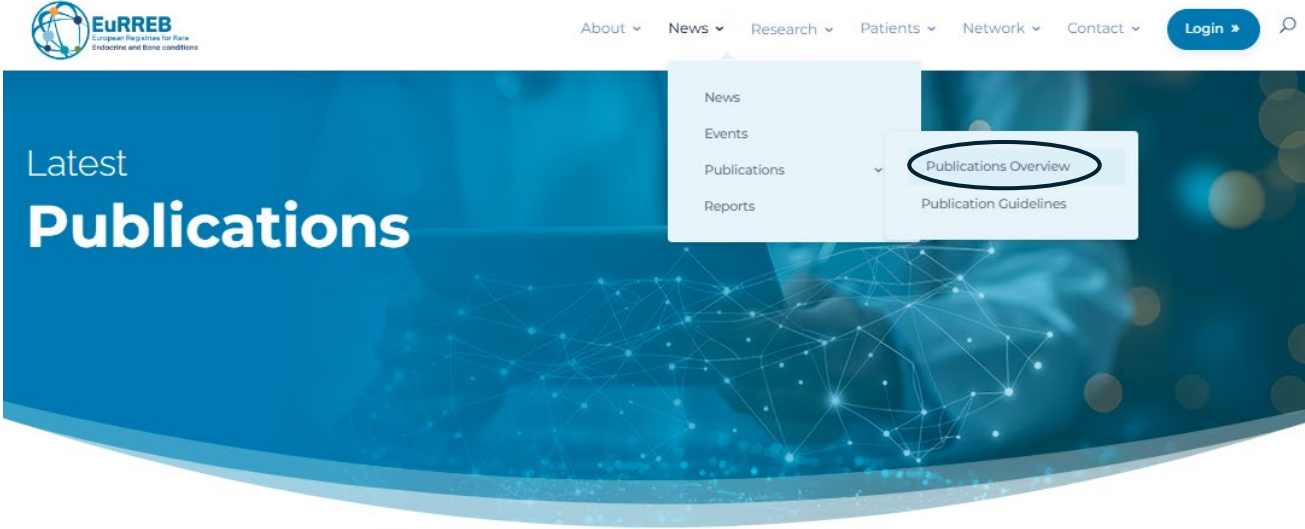


- Patient access status
- Clinician and patient outcomes status
- Distribution by MTG and age group



Achievements for Researchers

- Data request submitted 36 / data requests approved 35



The screenshot shows the EuRREB website header with navigation links: About, News, Research, Patients, Network, Contact, and a Login button. A dropdown menu for 'Research' is open, highlighting 'Publications Overview' and 'Publication Guidelines'. The main banner reads 'Latest Publications'.

Appelman-Dijkstra et al.
Orphanet Journal of Rare Diseases (2025) 20:331
<https://doi.org/10.1186/s13023-025-03862-6>

Orphanet Journal of
Rare Diseases

Calcified Tissue International (2025) 116:68
<https://doi.org/10.1007/s00223-025-01379-5>

ORIGINAL RESEARCH


RESEARCH **Open Access**


**Developing a standard dataset
in the European registries for rare endocrine
and bone conditions—a Melorheostosis dataset**

Natasha M. Appelman-Dijkstra^{1*}, Mariya Cherenko¹, Gavin P. R. Clunie², Thomas Funck-Brentano³, Corinna Grasemann⁴, Adalbert Raimann⁵, Willem F. Lems⁶ and Martine Cohen-Solal³

**Developing a Standardised Dataset for Natural History Studies
in Fibrous Dysplasia/McCune-Albright Syndrome**

Ana Luisa Priego Zurita¹, Oana O. Bulaicon¹, Jillian Bryce², Nerea Arrieta³, Magdalena Caballero Campos^{3,4}, Mariya Cherenko¹, Gaby Doxiadis⁵, Corinna Grasemann⁶, M. Kassim Javaid⁷, Helen McDevitt⁸, Stijn W. van der Meeren⁹, Diana Ovejero Crespo¹⁰, Luisa de Sanctis¹¹, Lothar Seefried¹², Annemarie A. Verrijn Stuart¹³, Daniele Tessaris¹¹, Pieter Bas de Witte¹⁴, Roland Chapurlat¹⁵, S. Faisal Ahmed^{1,2,16}, Natasha M. Appelman-Dijkstra¹







Condition-Specific Modules and Active Studies

CSM	MTG	Year	N patients in CR	Outcomes completed/ N patients	N active countries	N active centers	Study group leads	Active study
iPPSD/PHP	MTG2	2021	36	12/13	3	4	Agnès Linglart/Diana-Alexandra Ertl	Natural History of iPPSD/PHP
Pituitary adenoma	MTG6	2021	1081	2019/1240	6	9	Alberto Pereira	1. Epidemiological Surveillance of Pituitary Tumours within Endo-ERN 2. The Clinical Usefulness of the PANOMEN 3 Grade Score 3. Cell-lineage specific differences in presentation and outcomes of non-functioning pituitary adenomas – a multicentre study in patients seen at Endo-ERN reference centres
Achondroplasia	BD	2022	193	133/114	4	4	Klaus Mohnike/ Ines Alves	Natural History of Achondroplasia
FD/MAS	BD	2022	713	1433/543	6	7	Natasha Appelman-Dijkstra	Natural History of FD/MAS
Osteogenesis imperfecta	BD	2022	185	76/66	6	6	Wolfgang Hoegler	Under development
Parathyroid carcinoma	MTG2	2022	14	15/13	3	3	Maria Luisa Brandi	Natural History of Parathyroid Carcinoma
Rare hypophosphataemia	MTG2	2023	92	66/38	5	5	Agnès Linglart/Diana-Alexandra Ertl	Under development
Melorheostosis	BD	2023	20	19/11	2	2	Martine Cohen-Solal	Natural History of Melorheostosis
Rare obesity	MTG5	2023	106	11/11	2	2	Erica van den Akker	Natural History of Rare Obesity
Gender Incongruence	MTG7	2023	328	326/320	4	5	Martine Cools/Silvia Cancia	Current status of healthcare for transgender adolescents across Europe
Paediatric differentiated thyroid carcinoma	MTG8	2024	107	96	8	12	Hanneke van Santen/ Sarah Clement	Natural History of Paediatric DTC
STUDY: Transition outcomes in pituitary patients	MTG6	2025	98	Closed survey			Savi Shishkov	Transition outcomes in patients with pituitary conditions during transition age



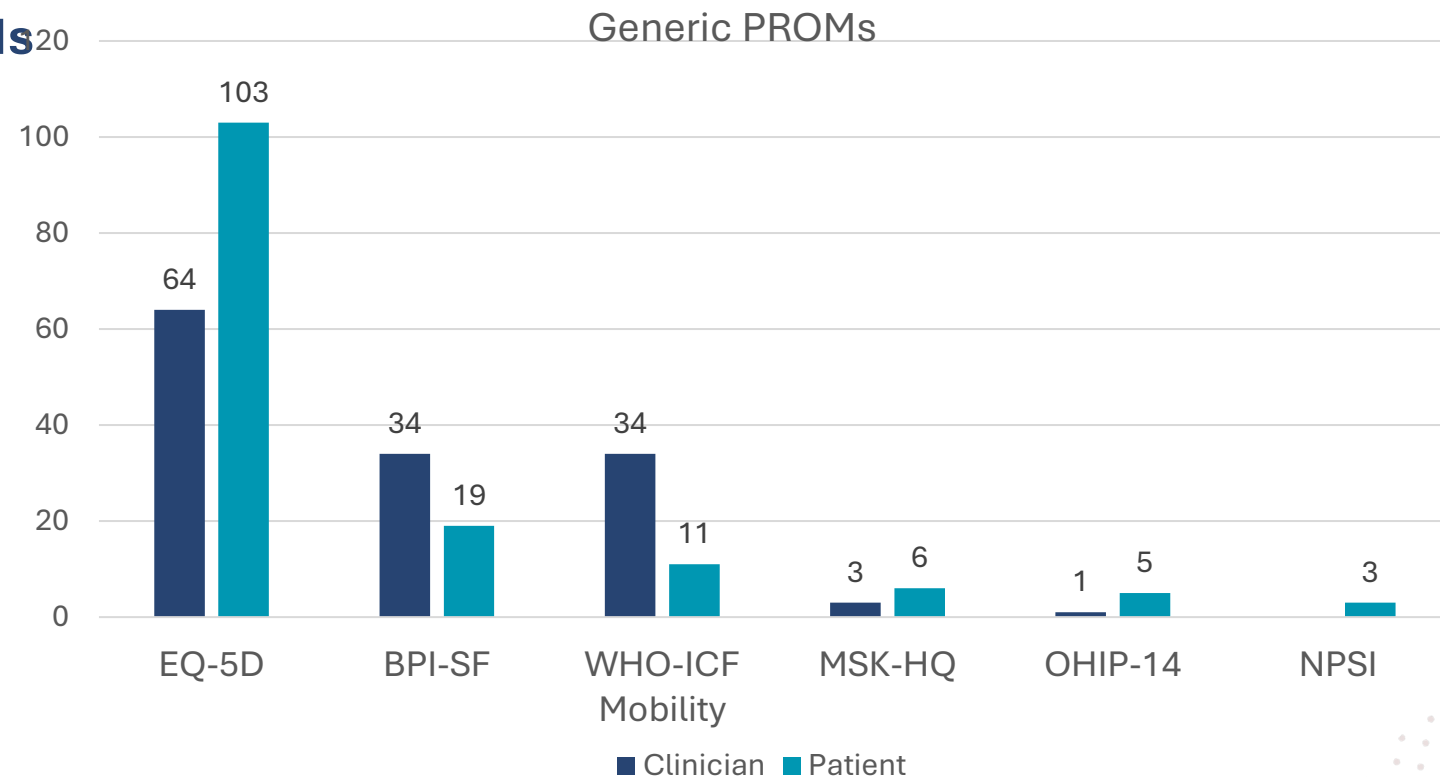
Condition-Specific Modules under Development

CSM	MTG	Year	N patients in CR	Outcomes completed	Study group leads	Active study
Langerhans Cell Histiocytosis	Sys	2025	14	2	Polyzois Makras	Natural History of endocrine and bone complications of LCH
Chronic Nonbacterial Osteitis (CNO)	Sys	2025	7	4	Elizabeth Winter	Under development
Pregnancy and Rare Endocrine and Bone conditions	all	2025	0	0	Tim Korevaar and Natasha Appelman-Dijkstra	Under development
Multiple Endocrine Neoplasia type 1 (MEN-1)	MTG4	2025	3	0	Frederic Castinetti, Gerlof Valk, Maria Luisa Brandi	Under development
Hypoparathyroidism	MTG2	2025	21		Maria Yavropolou, Corinna Grasemann, Eva Kassi	Under development



Achievements for Patients

- Access to Core Registry to view their data and complete outcomes
- Patient representatives – governance, working and study groups
- Implementation of PROMs



Challenges and Lessons Learned



Ethics &
GDPR: delays
and
harmonisation
challenges



Limited
resources at
centres for
data entry



Importance of
ongoing
engagement
with
contributors
and patients



Looking Ahead

- **Consolidate already existing modules and promote research with the collected data**
- **Develop new condition-specific modules and expand PROMs**
- **Incorporate Key Performance Indicators into EuRREB**
- **Continue to work toward FAIRification / overarching projects**
 - **ERDERA**
- **Integration with European Health Data Space**



Call to Action

- **Keep contributing data**
 - **Voucher opportunities**
 - **Student grants**
- **Join working and study groups**
- **Use EuRREB data for research**





Ana Priego Zurita
Quality Manager



Tess de Rooij
Project Manager



Mariya Cherenko
Data Manager



Natasha Appelman-Dijkstra
Lead



Jacqueline van der Blom
Project Assistant



Faisal Ahmed
Co- Lead

Ways to contact us:



eurreb.eu



registries@lumc.nl



drop-in sessions via Zoom



European Registries for Rare Endocrine
and Bone Conditions



EuRREB

European Registries for Rare
Endocrine and Bone conditions



Questions?

