



ERN BOND Coordinator

Dr. Luca Sangiorgi

Istituto Ortopedico Rizzoli

‘Registries and ERNs’



EuRREB

European Registries for Rare
Endocrine and Bone conditions

Registries and ERNs

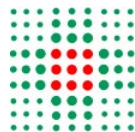
Dr. Luca SANGIORGI – ERN BOND Coordinator

IRCCS Istituto Ortopedico Rizzoli



EuRREB

European Registries for Rare
Endocrine and Bone conditions



SERVIZIO SANITARIO REGIONALE
EMILIA - ROMAGNA
Istituto Ortopedico Rizzoli di Bologna
Istituto di Ricovero e Cura a Carattere Scientifico

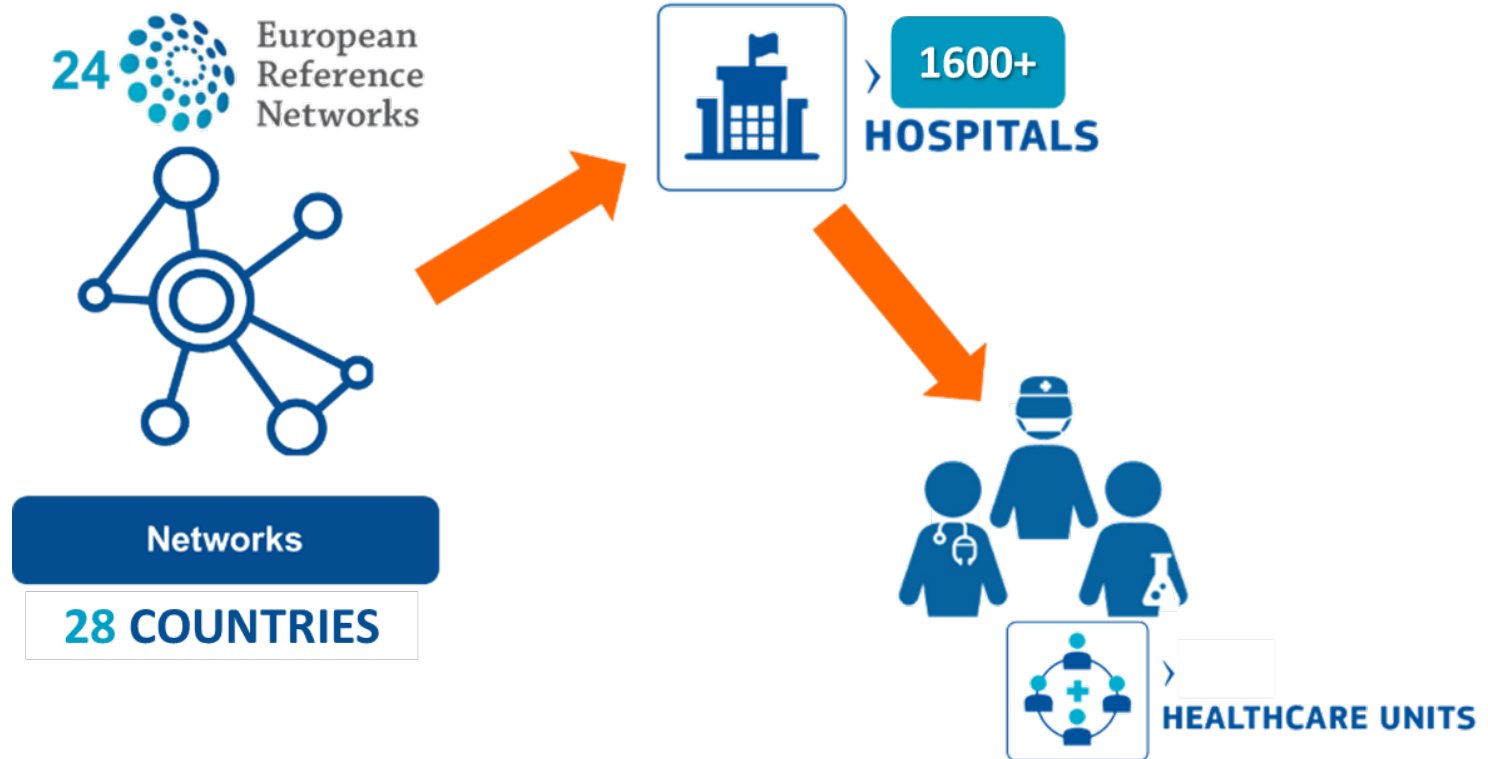


Funded by
the European Union

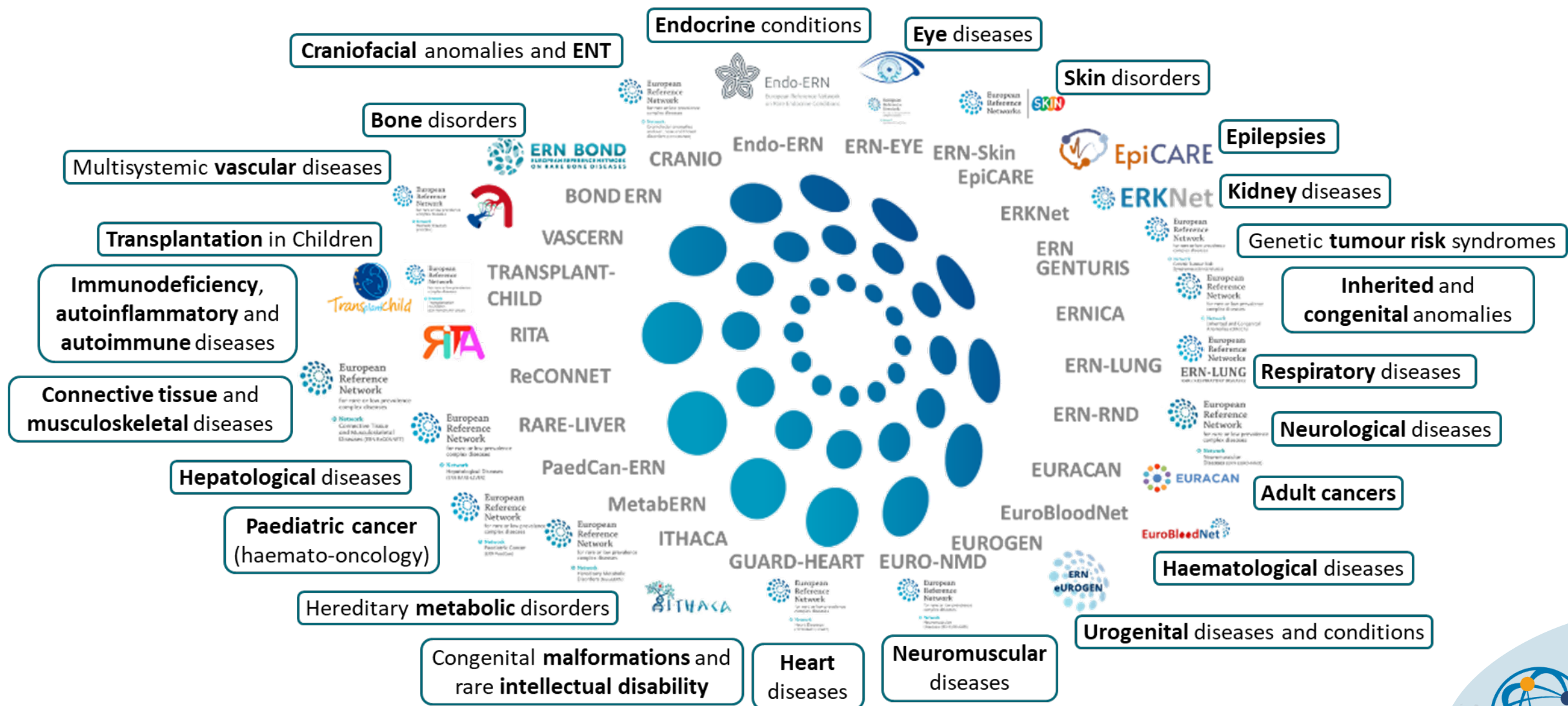
ERNs – European Reference Networks

ERNs are **cross-border networks** that **bring together European hospital centres of expertise** to tackle rare, low prevalence and complex conditions requiring highly specialized healthcare

The 24 **ERNs** were launched in **March 2017** and they now include **1,613** specialized centers located in 382 hospitals across 27 Member States and Norway



ERNs: 24 thematic networks



ERNs and Registries

In the past years, all ERNs have created their Patient registry

- **ERN BOND & ENDO ERN** - EuRREB registries - <https://eurreb.eu>
- ERN CRANIO - ERN CRANIO registry - <https://erncranio.molgenis.net/CranioPublic/cranio-public/#/>
- ERN EpiCARE - REDCap EpiCARE registry - <https://epi-care.eu/epicares-activities/registry-project/>
- ERKNet - ERKReg - <https://www.erknet.org/patients-registry/registry-mission>
- ERN-RND - ERN-RND Registry - <https://www.ern-rnd.eu/ern-rnd-registry/?cn-reloaded=1#registry-objectives>
- ERNICA - EPSA|ERNICA registry - <https://www.ernernica.eu/registry>
- ERN-LUNG - BREATHeREGISTRY - <https://ern-lung.eu/patient-registry/breatheregistry/>
- ERN-Skin - ERN-Skin registry - <https://ern-skin.eu/erras-registry/>
- ERN EURACAN - EURACAN Registry - <https://registry.euracan.eu/>
- ERN EuroBloodNet - ENROL registry - <https://enrolnetwork.eu/>
- ERN eUROGEN - ERN eUROGEN registry - <https://eurogen-ern.eu/our-work/registry/>
- ERN EURO-NMD - EURO-NMD Registry - <https://ern-euro-nmd.eu/reghub/>



ERNs and Registries

- ERN EYE - REDgistry - <https://redgistry.eu/>
- ERN GENTURIS - ERN GENTURIS Registry - <https://genturis-registry.eu/menu/main/app-ern-genturis/>
- ERN GUARD-Heart - Heart-Core registry - <https://guardheart.ern-net.eu/disease-registries/heart-core-registry/>
- ERN-ITHACA – ILIAD - <https://ern-ithaca.eu/our-research-activities/iliad/>
- MetabERN - U-IMD Registry - <https://www.u-imd-registry.org/index.php?id=about>
- ERN PaedCan - PARTNER registry - <https://partner.datariverweb.com/myhealthtest/>
- ERN RARE-LIVER - R-LIVER Registry - <https://rare-liver.eu/patients/r-liver-registry/>
- ERN ReCONNECT - TogetherERN ReCONNECT Registry Platform - <https://reconnect.ern-net.eu/our-activities-registry/>
- ERN RITA - RITA Registry - <https://ern-rita.org/rita-registry/general-info/>
- ERN TRANSPLANT-CHILD - PETER registry - <https://peter.transplantchild.eu/>
- VASCERN - VASCERN registry - <https://vascern.eu/group/registry/>



ERN Coordinators Group

The **ERN Coordinators Group** is the main governance body of the ERNs and is composed by the 24 Coordinators. This group serves as a platform to discuss and coordinate technical, organizational, and strategic aspects of the ERNs' work



This Group has settled several working groups on specific topic.

The **Registries Working Group**, lead by Franz Schaefer, is intended to oversee the development and implementation of patient registries within the ERN framework, continuing the work of ERICA project



ERN Registries

Each ERN has developed a Registry with the shared **general purpose of collecting data from rare patients**

Despite this, they have been conceived, designed and realized following very different approaches in terms of:

- ✓ Access
- ✓ Structure
- ✓ Governance
- ✓ IT platform
- ✓ ...



ERN Registries approaches 1/2

FEW GENERAL EXAMPLES OF THE DIFFERENT APPROACHES

- Different target disease: some registries have been designed for a specific disease/condition or, at least a small group of conditions, while other collect all the ERN patients' data
- Different platforms: some ERNs preferred to implement the registry on REDCap, while other selected a dedicated platform
- Different data type: most registries clearly stated the implementation of JRC Set of Common Data Elements, while other didn't. Moreover, the type of data collected are very dissimilar (i.e. including or not the genetic background)



ERN Registries Approaches 2/2

FEW GENERAL EXAMPLES OF THE DIFFERENT APPROACHES

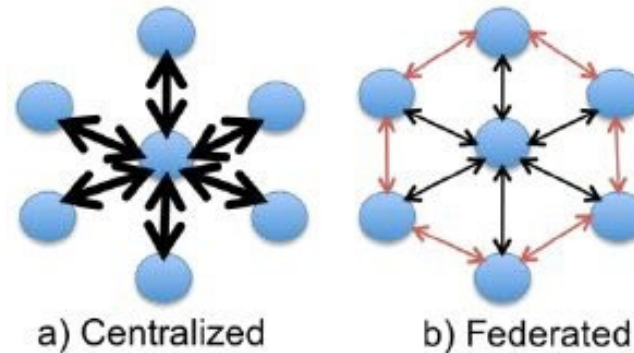
- Different structure: unique registry for all the patients, a registry for each disease, patients grouped by diagnosis (clinical, molecular, undiagnosed), comprising common data and “sub-registries” for specific conditions, etc.
- Different access: some registries allow both experts and patients access (i.e. PROs), while other are intended only for experts
- Different locations: some registries (of the same ERN) are hosted together, while other are located on multiple sites (i.e. depending on disease)
- Different configuration: centralized, federated or mixed



Centralized or federated data?

Registries data can be centralized [all information are consolidated in one place]. This approach offers an easier management and consistency, raising privacy and single-point-of-failure risks.

Registries data can be federated [information are kept distributed]. This allows local control and better privacy but adding complexity and potential data inconsistencies.



The key difference lies in data location and access: centralized data is stored and managed centrally, while federated data remains at its source, accessed through a virtual layer for analysis



Centralized or federated data?

A synthetic overview of the characteristics of centralized and federated data

Feature	Centralized Data	Federated Data
Data Location	Single, central repository	Distributed across multiple local sources
Data Management	Central team manages all data	Local teams manage their data, with a central team for global rules
Data Access	Users access the central repository	Data is accessed via a virtual layer without being physically moved
Control	Strong central control	Local control over data
Complexity	Simpler structure, complex security if breached	More complex to coordinate, but handles privacy well



Conclusions



Thank you

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

