



MINISTERSTVO ZDRAVOTNICTVÍ
ČESKÉ REPUBLIKY

National best practices for ERN integration: Czech Republic

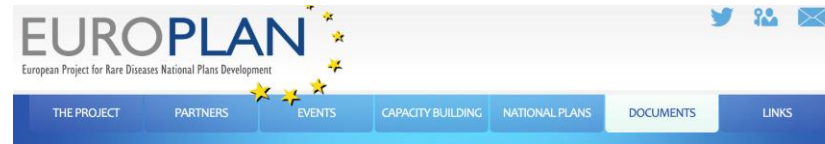
Pavla Doležalová

BoMS representative

ERN RITA center director at General University Hospital in Prague, Czech Republic

IT/eHealth Working Group chair for ERN RITA

Historical overview



Czech Republic

- ▶ [Czech National Strategy for Rare Diseases: 2010-2020 Press release - czech \(cz\)](#)
- ▶ [Czech National Strategy for Rare Diseases: 2010-2020 Press release - english \(en\)](#)
- ▶ [Czech National Action Plan for Rare Diseases 2012-2014 - czech \(cz\)](#)
- ▶ [Czech National Action Plan for Rare Diseases 2012-2014 - english \(en\)](#)
- ▶ [Second Czech National Action Plan for Rare Diseases 2015-2017 - czech \(cz\)](#)
- ▶ [Second Czech National Action Plan for rare diseases 2015-2017 - unofficial english version \(en\)](#)
- ▶ [Second Czech National Action Plan for rare diseases 2015-2017 - Annex 1 - unofficial english version \(en\)](#)

- National strategy for rare diseases 2010-2020
- Interdisciplinary Council for Rare Diseases at the MoH
 - „Advisory board“ meeting annually, no competencies, no funding
- National Coordination Center for Rare Diseases at Motol University Hospital
 - No funding, no competencies, no defined link to policy makers
- Patient environment evolution



Historical overview

2017

- 17 ERNs - 28 full members

2022

- 22 ERNs - 48 full member centres of 13 HCPs
 - No ERN coordinator
- Formal status od „highly specialised care centres for RD“
- Competencies and integration into existing structures not defined
- Capacity limited, economically largely unprofitable



OBSAH:

1. Standardy poskytování specializované paliativní péče ve formě konziliárního týmu paliativní péče v nemocnicích akutní a následné péče v ČR	2
2. INFORMACE TÝKAJÍCÍ SE ÚPRAVY VZDĚLÁVACÍCH PROGRAMŮ GYNEKOLOGIE A PORODNICTVÍ, INFEKČNÍ LÉKAŘSTVÍ, OFTALMOLOGIE, ORTOPEDIE A TRAUMATOLOGIE POHYBOVÉHO ÚSTROJÍ, OTORINOLARYNGOLOGIE A CHIRURGIE HLAVY A KRKU, NEUROLOGIE A SOUDNÍ LÉKAŘSTVÍ	8
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Availability of RD data in the CZ – up to 2022/3

- **All ERN centers hosted by HCs directly managed by the MoH**
 - Their EHR vary significantly
 - RD patients identified via their birth code + ICD10
 - Only proportion of RD patients can be traced within the National Healthcare Information System (NZIS)
- **Information largely unavailable on**
 - Numbers of patients with defined RD
 - Their geographical distribution
 - Care characteristics: quality and costs

Czech Republic and ERN integration: „Pilot project“

- To map RD care in 4 ERN centers / 3 HCPs via patient tracking in the National Healthcare Information System
- To serve as a basis for **negotiation with payers** Re optimisation of reimbursement
- **Patient identification**
 - Specific „signal“ code in EHR (later +Orphacode)
 - Data analysis of patient characteristics and clinical intervention codes and their reimbursement against personal costs of clinical teams
- **Preliminary results**
 - Disproportion between staff costs and reimbursement of their work
 - Difficult data interpretation due to lack of identification of centers within HCPs

RD patient identification in EHR from 2024

- **Recognition of the necessity of identifying RD patients in EHR**
 - A pre-requisite of any potential re-organisation/funding optimisation
- **RD patient identification rule**
 - Specific „signal“ code to accompany an Orphacode for RD healthcare billing
 - Exclusively contracted for ERN centers only
 - Orphacode entry = confirmation of RD diagnosis provided by an ERN centre expert
- **An interim funding solution**
 - Extra bulk payment to each ERN center („bonification“) by payers (insurance companies)
 - recognising extra work and effort associated with RD care

RD data systematic collection

- **Project „RARE“**

- A national RD registry forrunner
- Preparation of the generic RD dataset in collaboration with the DIGOVO project

- **National RD registry**

- Proposed as an adendum to the recent amendment of the Health Services Act No. 372/2011 Coll.
- Legally operational probably from 01/2025
- Interoperability with
 - **Hospital DHR and standard RD dataset for direct data export (single data entry)**
 - **Other existing RD registries**

Source data - EHR

- Project „DIGOVO“: **D**IGitalisation and **O**ptimisation of RD (= **V**O) care
 - Functional and implementation specification of the data standard for RDs and its pilot implementation
 - Resouces:
 - European Common Data Elements (CDE)
 - French SDE, CDE and EUCERD JA
- Data directly entered in EHR
 - Prevents mistakes of multiple data re-entry
 - Reduces time and effort
 - Allows for data sharing

GROUP	ELEMENT N°	ELEMENT NAME	ELEMENT DESCRIPTION	CODING	COMMENT
1. Pseudonym	1.1.	Pseudonym	Patient's pseudonym	• String	https://eu-rd-platform.jrc.ec.europa.eu/spider
	2.1.	Date of birth	Patient's date of birth	• Date (dd/mm/yyyy)	
2. Personal Information	2.2.	Sex	Patient's sex at birth	• Female • Male • Undetermined • Foetus (Unknown)	
	3.1.	Patient's status	Patient alive or dead	• Alive • Dead • Lost in follow-up • Opted-out	If dead then answer question 3.2
3. Patient Status	3.2.	Date of death	Patient's date of death	• Date (dd/mm/yyyy)	
	4.1.	First contact with specialised centre	Date of first contact with specialised centre	• Date (dd/mm/yyyy)	
4. Care pathway	5.1.	Age at onset	Age at which symptoms/signs first appeared	• Antenatal • At birth • Date (dd/mm/yyyy) • Undetermined	
	5.2.	Age at diagnosis	Age at which diagnosis was made	• Antenatal • At birth • Date (dd/mm/yyyy) • Undetermined	
5. Disease history	6.1.	Diagnosis of the rare disease	Diagnosis retained by the specialised centre	Orpha code (strongly recommended – see link) / Alpha code/ ICD-9 code/ ICD-9-CM code / ICD-10 code	http://www.orphadata.org/cgi-bin/inc/product1.inc.php
	6.2.	Genetic diagnosis	Genetic diagnosis retained by the specialised centre	International classification of mutations (HGVS) (strongly recommended – see link) / HGNC / OMIM code	http://www.hgvs.org
	6.3.	Undiagnosed case	How the undiagnosed case is defined	• Phenotype (HPO) • Genotype (HGVS)	
6. Diagnosis	7.1.	Agreement to be contacted for research purposes	Patient's permission exists for being contacted for research purposes	• YES • NO	
	7.2.	Consent to the reuse of data	Patient's consent exists for his/her data to be reused for other research purposes	• YES • NO	
	7.3.	Biological sample	Patient's biological sample available for research	• YES • NO	If YES answer question 7.4
	7.4.	Link to a biobank	Biological sample stored in a biobank	• YES (if appropriate use link) • NO	https://directory.bbmrj-eric.eu
7. Research	8.1.	Classification of functioning/disability	Patient's disability profile according to International Classification of Functioning and Disability (ICF)	• Disability profile / Score	http://www.who.int/classifications/icf/whodasii/en/

SYPOVO project: System of Complex Health- and Social Care for Rare Disease Patients

- **To define organisational changes** necessary for ERN integration
 - RD networks
 - Personal capacities of centers for function and sustainability
 - „referral patterns“ and „care pathways“
 - Competences of centers with different level of expertise
 - Including RD-specific drug prescription
 - System of quality of care evaluation
 - Incl. disease outcome measures
- **Optimisation of**
 - HCP / centre funding
 - RD education and research



Financováno
Evropskou unií

Operační program Zaměstnanost plus

Projektu **Návrh systému komplexní sdílené zdravotně-sociální péče o pacienty se vzácnými onemocněními „SYPOVO“**



Thank you

pavla.dolezalova@vfn.cz





Financováno
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Operační program **Zaměstnanost plus**



**European
Reference
Network**

for rare or low prevalence
complex diseases

 **Network**

Immunodeficiency,
Autoinflammatory and
Autoimmune Diseases
(ERN RITA)

 **Member**

Všeobecná fakultní
nemocnice v Praze —
Česká republika