

ORPHANET BELGIUM DATABASE ACTIVITY REPORT 2022

CONVENTION FOR THE SUPPORT OF STRATEGIC RESEARCH ON RARE DISEASES IN BELGIUM 2020-2024 (CENTRAL REGISTRY OF RARE DISEASES – BELGIAN GENETIC TESTS DATABASE – ORPHANET)

orphanet

CALOMME ANNABELLE

WHO WE ARE

Sciensano can count on more than 950 staff members who are committed to health every day.

As our name suggests, science and health are central to our mission. Sciensano's strength and uniqueness lie within the holistic and multidisciplinary approach to health. More particularly we focus on the close and indissoluble interconnection between human and animal health and their environment (the "One health" concept). By combining different research perspectives within this framework, Sciensano contributes in a unique way to everybody's health.

For this, Sciensano builds on the more than 100 years of scientific expertise.

Sciensano

Epidemiology and public health - Gezondheidszorgonderzoek . Étude des soins de santé Rare Diseases Team



CALOMME Annabelle

• The Orphanet Belgium Management Board consists of representatives of:

- the Orphanet Belgium team;
- the partners and sponsors of Orphanet Belgium (FPS/SPF/FOD, NIHDI/INAMI/RIZIV);
- ad hoc: experts or representatives of institutes designated for the validation of the data.

• Sponsors and non-financial partnerships:

	SPONSORS & NON-FINANCIAL PARTNERSHIPS				
Members of National Board	scien sano	The "Health services research" of Sciensano hosts the Orphanet Belgium team. Within the Rare Diseases Team, Orphanet Belgium collaborates to other rare disease projects that are part of the Belgian plan of rare diseases, such as the Central Registry of Rare Diseases (CRRD) and other national patient registries , e.g. for cystic fibrosis, neuromuscular diseases and rare bleeding disorders. Since 2020, a collaboration has been established with the Belgian Genetic Test Database (BGTD) , in order to improve the registration and update of diagnostic tests performed by the 8 officially-recognized genetic centres. Internal collaboration with the Epidemiology of infectious diseases service has also been set up to validate data on reference laboratories and infectious disease screening tests.			
fembers of	Rederal public service HEALTH, FOOD CHAIN SAFETY AND ENVIRONMENT	The Federal Public Service Health, Food Chain Safety and Environment is a partner of the Orphanet Belgium team.			
Σ		The National Institute of Health and Invalidity Insurance (NIHDI) finances Sciensano via a convention for the implementation and management of various projects specific to rare diseases including the Orphanet Belgium project. NIHDI provides information on the specialized centres for certain rare conditions including the reference centres having a convention .			
experts	RaDiOrg.	Rare Diseases Belgium (RaDiOrg) , the Belgian umbrella association for people living with a rare disease, plays a role in the validation of data on Belgian patient organizations registered in the Orphanet database.			
Ad-hoc experts		The College of Human Genetics , which represents the 8 officially-recognized Belgian genetic centres , collaborates with the Orphanet team to improve and simplify the process of registration and update of data on genetic testing activities in the Orphanet database.			

EXECUTIVE SUMMARY

The <u>Orphanet portal</u> plays a key role in research and care spheres for the rare disease community. Over the years, Orphanet has become the international reference in collecting, integrating, producing and disseminating high-quality, manually curated expert-reviewed information and data on rare diseases and orphan drugs. Orphanet develops and maintains the nomenclature (ORPHAcodes) and classification of rare diseases, essential in improving the visibility and recognition of patients in health information systems. In Belgium, participation in the Orphanet project is supported by the health authorities. Sciensano has been endorsed by the Ministry of Health to host the Orphanet Belgium team. A national board consisting of members of Sciensano, the Federal Public Service (FPS) and the National Institute for Health and Disability Insurance (NIHDI) oversees the project.

The management of Belgian data registered in Orphanet is described in the successive agreements "Central Registry of Rare Diseases–Belgian Genetic Tests Database–Orphanet support" concluded between the NIHDI and Sciensano. This convention is monitored by a multistakeholder steering committee to determine by consensus the priorities and actions to be undertaken to carry out the project.

The objective of this report is to give an overview of the main activities and progress made - but also of the challenges encountered - during the year 2022 by the Orphanet Belgium team.

Recording and updating Belgian data on rare diseases in the Orphanet database (expert centres, patient organisations, medical laboratories and diagnostic tests, clinical trials, research projects, registries and biobanks) was the core of our activity in 2022. The successful completion of these tasks required the follow-up of **numerous training sessions** in order to be informed of the evolution of standard operating procedures and tools developed for this purpose. A large part of the first quarter of 2022 was dedicated to **registering all Belgian expert centres that joined a European Reference Network** (ERN) following the second call launched by the European Commission.

Part of our activities also consists of **raising awareness of rare diseases**, in particular by participating in Rare Disease Day which is held annually in February, and **offering assistance** to questions from people living with a rare disease as well as those from experts working in the field. During this year, we have maintained our **close collaboration with many key players in the field of rare diseases in Belgium**, such as RaDiOrg and the College of Human Genetics. We have also strengthened certain contacts, including those with the Terminology Centre of the FPS Public Health, in order to discuss the possible implementation of ORPHAcodes in our national health information systems.

In 2022, the Orphanet Belgium team established a partnership with a new European project, called "Orphanet Data for Rare Disease" (OD4RD). Our participation involves numerous tasks to promote the adoption of ORPHAcodes, which had to be defined in a National Action Plan presented in Paris during the final meeting of the pilot phase of the project. These tasks involve functioning as a helpdesk for end users regarding the content of the Orphanet nomenclature and the correct implementation of ORPHAcodes in local Health Information Systems, providing online or on-site trainings, developing new educational materials on the use of the Orphanet nomenclature and advocating ORPHAcodes towards national decision-makers (e.g. Ministry of Health, hospital managers, etc.).

For detailed information on Orphanet missions, services, quality commitment, general data management methodology and a description of the roles of the different team members, we refer to the previous activity reports of the Orphanet Belgium database¹⁻³ as well as to the activity reports and procedures⁴ published on the Orphanet website.

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ABBREVIATIONS AND ACRONYMS

API	Application Programming Interface	
BELAC	Belgian accreditation organisation	
BfArM	The Federal Institute for Drugs and Medical Devices in Germany	
	(Bundesinstitut für Arzneimittel und Medizinprodukte)	
BGTD	Belgian Genetic Tests Database	
CEGRD	European Commission Expert Group on Rare Diseases	
CHU	Centre Hospitalier Universitaire	
CRRD	Central Registry of Rare Diseases	
EC	European Commission	
EHR	Electronic health records	
EQA	External Quality Assessment	
ERN	European Reference Network	
EU	European Union	
EUCERD	EU Committee of Experts on Rare Diseases	
FAMHP	Federal Agency for Medicines and Health products	
FAQ	Frequently Asked Questions	
FPS	Federal Public Service	
GDPR	General Data Protection Regulation	
НСР	Health Care Provider	
HIS ICD	Health Information System International Classification of Diseases	
ICTRP	International Classification of Diseases	
INAMI	Institut national d'assurance maladie-invalidité	
-	The French National Institute of Health and Medical Research	
Inserm		
	(Institut National de Santé et de Recherche Médicale, France) International Rare Diseases Research Consortium	
IS Information Scientist; member of an Orphanet national team, res the data collection and registration of expert resources		
MB	Management Board	
MS	EU Member States (EU-27)	
NIHDI	National Institute for Health and Disability Insurance	
OD4RD	Orphanet Data for Rare Disease project	
ORPHAcode	A unique, time-stable and non-reusable numerical identifier generated	
	randomly by the Orphanet database upon creation of a new entity in the	
	nomenclature of rare diseases	
OrphaNetWork	A website assigned to national teams and serving as a collection point for	
	common tools and documents. This website is only accessible to Orphanet	
	collaborators after entering a login and password	
QAR	Quality Assurance Review	
QC	Quality Control	
RaDiOrg Rare Diseases Organisation Belgium		
RD Rare Disease		
RIZIV Rijksinstituut voor ziekte- en invaliditeitsverzekering		
SNOMED CT ® Systematized Nomenclature of Medicine Clinical Terms		
Storm ED Cros Systematized Nomenciature of Medicine Chinical Fernis SOP Standard Operating Procedure		
UZ Universitair ziekenhuis		
WP	Work Package; European projects work is organised into "work packages". A	
	work package can be thought of as a sub-project, which, when combined with other work packages, forms the completed project	

INTRODUCTION

In Europe, the rarity of a disease is defined by an epidemiological threshold: **a rare disease is a medical condition with a specific pattern of clinical signs and symptoms that affects fewer than 1 in 2,000 people**⁵. For a long time, rare diseases remained a largely underestimated issue. However, in recent years, it has become clear that they actually represent a **huge public health challenge**.

Rare diseases are **very heterogeneous, both in terms of symptoms and prevalence.** Consequently, the number of people affected can vary considerably from one rare disease to another, ranging from hundreds of thousands of people to only a few worldwide. However, **if we consider them globally, rare diseases are numerous.** A study⁶ published in 2019 by Orphanet in the *European Journal of Human Genetics* estimates the number of people living with a rare disease at 3.5-5.9%, which equates to 263-446 million persons affected worldwide at any point in time. If we transpose this figure on the Belgian population, it is equivalent to a **conservative estimate of 500,000 people suffering from a rare disease in our country** (not taking into account rare tumours, infectious diseases and poisonings). The large number of rare diseases, their rarity when taken individually, but also the different medical disciplines involved in ensuring appropriate medical care make the organization of health policy in this area particularly complex.

Around 6,200 rare diseases⁷ **have been clinically defined to date** and new pathologies are regularly described in the scientific literature. Many rare diseases present with complex constellation of symptoms and are multisystemic: they affect several systems and organs of the human body and therefore require collaboration between different medical specialities for adequate care. 72% of rare diseases have a genetic origin. About 70% of rare diseases start in childhood and around 30% of affected children will not reach the age of 5⁶. Few rare diseases are preventable or curable and most often, they are severe, chronic, progressive and significantly affecting the quality of life.

People living with a rare disease face common difficulties in their daily life that arise from the rarity of their medical conditions. Among them is the diagnostic odyssey very frequently encountered by patients: in Belgium, it takes an average of 4.9 years from the onset of the first symptoms for a person with a rare disease to receive a confirmed diagnosis⁸. Once the diagnosis is made, other difficulties follow throughout life: struggle to identify where to find adequate clinical care, absence or limited access to an effective and affordable treatment, lack of relevant information on the disease, misunderstanding of relatives and sometimes even of the medical profession and feelings of isolation due to the challenge of identifying companions in misfortune with whom to share the difficulties encountered.

The burden of rare diseases on patients, but also on their families, carers, healthcare systems and society overall merits greater visibility. Among the key players seeking to provide a better understanding and recognition of rare diseases and therefore, ultimately, to guarantee better care for people living with a rare disease, is the Orphanet network. **Orphanet was established in 1997 by the Inserm** (French National Institute for Health and Medical Research). This initiative became a European endeavour from 2000 onwards, supported by grants from the European Commission and has gradually grown into a **consortium of around 40 countries**⁹ within Europe and across the globe. Belgium was one of the first countries to join the Orphanet consortium in 2001. Orphanet ensures equal access to knowledge for all stakeholders and serves the following communities: health care professionals, patients and their relatives, patient organisations, researchers, biotech and pharmaceutical companies, public health and research institutions and public authorities. On the Orphanet website, the information is currently available in nine languages including French, Dutch and German, the three official languages in Belgium. Every month, more than a million pages of the Orphanet website are consulted from over 200 countries and **Belgium is among the top ten countries of the website's audience**¹⁰.

Belgium's contribution to the international database Orphanet makes it possible to collect data related to the activities carried out in our country in the field of rare diseases (directories of patient organisations, expert centres, diagnostic test laboratories, research projects, clinical studies, registries, biobanks), and thus gives them visibility both nationally and internationally. Structural and financial support for the creation and management of a national Orphanet portal stems from one of the 20 actions defined in the Belgian Plan for Rare Diseases¹¹ launched at the end of 2013. The Orphanet Belgium management is listed in the Plan as "Action 17" which focuses on sharing knowledge and information on rare diseases.

In addition to its data identification, validation and publication activities in the Orphanet platform, the **Orphanet Belgium team has been actively participating since 2022 in the "Orphanet Data for Rare Disease" project (OD4RD)**, co-funded by the European Union. The **OD4RD project** (pilot-phase) has been launched in January 2022 for a 15 months period. It aims to advance the implementation of ORPHAcodes in hospitals of numerous European countries hosting the European Reference Networks (ERNs) and to use the expertise of the ERNs to further improve the Orphanet nomenclature. Our team participates in Work Package 4 which intends to provide support for the local implementation of ORPHAcodes by national healthcare providers through the establishment of **Orphanet nomenclature national support hubs.** This should facilitate the implementation (from a technical point of view) and use (from a coding and data exploitation point of view) of ORPHAcodes and thus increase the visibility and recognition of people living with a rare disease in our health information systems.

MAIN ACTIVITIES IN 2022

1. Belgian contribution to the Orphanet database [January- December 2022]

1.1. CONTENT OF THE ORPHANET BELGIUM DATABASE

The management of the Orphanet database (Figure 1) is **a continuous and constantly evolving task**. Orphanet data is processed manually by the national team and validated by experts, in accordance with standard operating procedures (SOPs) which include the methodology to be adopted, the workflow to be followed and the inclusion/exclusion criteria for each type of expert resources.

Two types of data (called "expert resources" by Orphanet) are registered:

- <u>Patient-centered activities:</u> patient organisations, federations and alliances; expert centres, networks of expert centres; medical laboratories and diagnostic tests;
- <u>Research-related activities:</u> research projects, clinical trials, networks of experts, patient registries, mutation registries and biobanks.



Fig.1. Screenshot of the homepage of the Orphanet website

For most types of Belgian expert resources, there has been **a global increase in the amount of data collected over the past year** (Figure 2). However, it is possible that there is no variation or even a decrease in the total number of data collected, because of update work. Increasing the quantity of collected data improves the value of a database, but at the same time ensuring a good quality of the data listed by deleting data that is no longer up to date or by modifying data already registered, is essential to maintain a relevant database. We therefore apply **regular update cycles** in order to check that the information is still sufficiently accurate, complete and up to date, as well as to identify all kinds of potential errors such as the presence of duplicates.

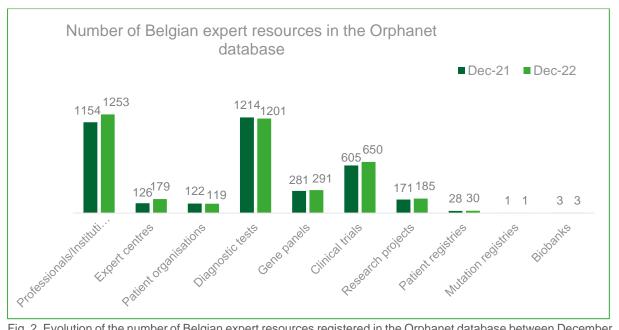


Fig. 2. Evolution of the number of Belgian expert resources registered in the Orphanet database between December 2021 and December 2022

Each of the registered activities can be identified on the Orphanet website via a search based on the name of the associated (groups of) rare disease(s) or on the name of the activity (Figure 3). Results can be filtered by country and sorted either geographically (by country, region and city, in alphabetical order) or by specificity (from results more focused on a particular disease to those specialised for a group of diseases including the queried disease).

Patient organisations	Homepage >Patient organisations >Patient organisation Search for a patient organisation				
Patient organisation Federations/Alliances Helplines for personal queries Download dataset	Marfan (') mandatory field Belgium	✓ Other search	option(s) V		
6 Result(s) <u>4 Patient organisations</u> <u>2 Alliances and umbrella organisations</u> Sort by Specificity Geographical location (country/region/city) 					
	OK Member of a ERN = () Patient organisations Patient organisations BELGIUM LIMBURG- KOERSEL	bindweefsel.be - Vlaamse Vereniging voor Erfelijke Bindweefselaandoeningen V.Z.W.	More Information		
	BELGIUM NAMUR-SAINT- SERVAIS	ABSM - Association Belge du Syndrome de Marfan asbl	More information		
	BELGIUM ARRONDISSEMENT BRUSSELS-CAPITAL- BRUSSELS	RaDiOrg - Rare Diseases Belgium - BE	More Information		
	BELGIUM NAMUR- WÉPION	Rare Disorders Belgium (RDB) ASBL - BE	More Information		

Fig 3. Example of a search in Orphanet for a Belgian patient organisation dedicated to Marfan syndrome

1.2. IMPROVEMENT OF THE COMPLETENESS AND QUALITY OF THE DATABASE

In 2022, all quality tasks assigned by the Orphanet coordinating team (Inserm, France) to the Belgian Information Scientist (IS) were carried out within the given deadlines. To ensure the accuracy of the database, various actions are regularly implemented:

- Processing of spontaneous requests to create new information or update the information already collected. This kind of requests can be provided at any time by professionals, either by phone, email or via our online registration tool (Collector). The follow-up is ensured by the national teams and the proper implementation by the IS is monitored and validated by the Orphanet coordinating team;
- Proactive searches for information in order to compare it to that of the database. To this
 end, official/legitimate sources of information are regularly consulted (scientific publications,
 websites of patient organizations or medical laboratories, the BELAC website for accreditations;
 EQA providers websites, Clinical trials.gov, the European Clinical Trials Database (EudraCT),
 the database of clinical trials managed by the Federal Agency for Medicines and Health
 products, the INVENT database, the Belgian official journal, etc.);
- Carrying out the quality control actions included in the "Quality Assurance Reviews (QAR)". These documents are provided by the Orphanet coordinating team on a regular basis (usually every three months) in order to continually enrich the database and keep it relevant and up-to-date;
- Carrying out a series of recurrent queries put in place in the frame of the post-release quality control. Communications about QC tasks can also be made by emails or via OrphaNetWork. Information is sent by the coordinating team to the national IS describing the aim of the task, the instructions, the deadline and an Excel file with data concerned. In 2022, these tasks concerned, among others, the registration of the EQA data from the CF-Network for 2021 and 2022, the correction of the clinical trials phase following the implementation of the "Not Applicable" phase, the deletion of data (patient organisations and expert centres) that has not been updated for more than 7 years (i.e. a "purge" task), etc.;
- Carrying out a series of recurrent queries according to evolutions in the classification of . rare diseases. The review of the nomenclature and classification of rare diseases is a continuous work. The nomenclature and classification are produced and updated by collaborators of the Orphanet coordinating team with a scientific and/or medical background. They monitor the international scientific literature, consult experts from ERNs and perform internal quality control in order to detect and correct inconsistencies in the nomenclature and classifications (such as missing entities; entities with an incorrect classification level; discrepant representation of a group of disorders between the different classification groups it is included in; inconsistencies of the nomenclature between similar entities, or categories that are empty or no longer in use, among other cases). Decisions proposed by the Orphanet nomenclature managers are discussed and validated during meetings held on a monthly basis with the Orphanet Medical and Scientific Committee, composed of medical doctors and collaborators of the coordinating team. The outcome of these meetings are summarized in "disease meeting reports" and are made available on OrphaNetwork for the national Information Scientists who are in charge of putting in place the necessary corrections concerning the data of their country. Consequently, regular updates are made for data related to diseases that are now classified as obsolete, deprecated or non-rare.

1.3. ANNUAL UPDATE CAMPAIGN

Professionals registered in the database and linked to patient-centered activities are contacted yearly by a mailing launched at the Inserm level in which they are invited to review and, if needed, to update their information. The follow-up of these requests is ensured by the national teams. This action also allows to identify invalid email addresses registered in the Orphanet database that need to be corrected.

In Belgium, the annual update campaign was launched on June, 30 2022 and involved 851 professionals registered in the Orphanet database with a non-terminated expert resource linked. Unfortunately the answer rate from professionals in charge of activities listed on Orphanet is very low: only 31 Belgian professionals responded (3.6 % of the professionals contacted), either to request changes or to confirm that their data is still valid. All requests for modifications received as a result of this action have been processed and the date of last update has been adapted on the Orphanet website.

This low response rate was also observed in previous update campaigns and we can see from the graph below (Figure 4) that this is also the case in other countries of the Orphanet network. However, the collaboration of professionals in charge of the activities is essential to maintain a relevant database. The consequence is that in the long term, a part of the registered data is eliminated from the Orphanet database when despite all our efforts, no update was provided. Delays are defined for each type of resource before removing them from the database if the delay since the last update is considered too long (e.g.: 7 years for diagnostic tests and experts centres).

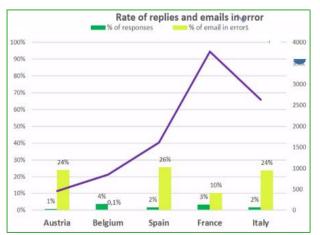


Fig.4. Rate of replies and emails in error received following the 2022 update campaign, in some countries of the Orphanet network (including Belgium)

Mailing therefore does not seem to be the best way to reach professionals, but it is the only way to keep traceability of the contact. The pro-active approach of calling professionals to review their data could be more effective but is difficult to put into practice, especially in large countries. The Orphanet collaborators will therefore have to think about other strategies in order to guarantee an effective exchange with professionals.

Two possibilities could be considered:

- Each national team conducts its own annual update mailing campaign. This could work better as the email is coming from a known (trusted) institution and the email is in local language (the efficacity of this proposal should be assessed after one year);
- Establishment of new partnerships with official sources of data for collection and update.

The selection of the proposal to be implemented will be done by a vote by the Orphanet Management Board before being put in place.

1.4. REGISTRATION AND UPDATE OF EXPERT CENTRE

The possibility to register an expert centre on Orphanet depends on the specific situation in the different countries. In Belgium, eligibility criteria are appraised by the Orphanet Belgium management board. The country-specific inclusion criteria taken into account during the selection process are indicated in a document published on the Orphanet Belgium website¹², in order to be transparent on how the data selection is determined. Our objective is that 100% of the rare disease centres which meet the criteria established by the Belgian Management Board are listed in Orphanet.

Registration in Orphanet is not compulsory because there is no legislative framework, which results in the fact that the professional in charge of a certain activity can refuse the publication of their personal data. However, Orphanet falls into the Inserm's Public Interest mission as the legal basis for treatment of personal data. Thus, we do not have to collect consent from professionals to show their data. We must inform them of the registration and give them the possibility to retract if they do not wish it to be available online or in our databases, in accordance with the General Data Protection Regulation (GDPR). Registration in Orphanet is strongly recommended as it offers visibility at national and international levels to all centres that have acquired recognized expertise in certain rare diseases.

Two categories of Belgian expert centres are authorized to be registered in Orphanet, as agreed by the Orphanet Belgium Management Board. A clear visual distinction between these two categories is established on the Orphanet website thanks to the use of specific flags (logos):

1) THE OFFICIALLY-DESIGNATED CENTRES

These reference centres are considered as validated data and are registered in the Orphanet database

with the "Designated centre of expertise" flag 💗 .

They include:

- **centres that have a convention with the NIHDI:** these centres are focused on a specific (group of) rare diseases (neuromuscular diseases, cystic fibrosis, haemophilia, hereditary metabolic diseases, paediatric nephrology, refractory epilepsy and spina bifida);
- genetic centres officially recognized by the health authorities for their diagnostic and counselling activities;
- hospitals recognized by the health authorities to have a "rare disease function".

In 2019, a consultation of the NIHDI website was carried out by the Belgian IS, in order to determine which centres having a convention with the NIHDI were not yet listed on Orphanet. Subsequently, the missing reference centres were created on Orphanet. Once the information was accessible on the Orphanet website, the IS informed the involved professionals that the activity had been published and asked them for a final validation. No new conventions have been established since then. **Post-release quality controls of all Belgian reference centres already registered are conducted regularly over the years** to keep the data up-to-date.

2) THE CENTRES PARTICIPATING IN A EUROPEAN REFERENCE NETWORK (ERN)

These centres appear on the Orphanet website with the "Member of a ERN" flag 49 .

The centres belonging to these two categories are represented by two flags (Figure 5).

Caption: Designated centre	es of expertise = 🝯 Member of a ERN = 🌼	
BELGIUM VLAAMS BRABANT LEUVEN	<u>Reference Centre Pediatric Nephrology - UZ Leuven</u> UZ Leuven - Campus Gasthuisberg	More information

Fig.5. Example of a centre which is both officially-designated at national level and member of an ERN

Belgian centres participating in an ERN are registered on Orphanet since 2019. ERNs are virtual networks that bring together centres from across the European Union. Individuals suffering from a rare disease may struggle to obtain an accurate diagnosis or appropriate treatment in their country because no country alone has the capacity to treat all rare, low-prevalence and complex diseases. ERNs offer patients and clinicians from across Europe access to the best expertise, knowledge and resources, without having to travel to another country. These networks receive support from several EU funding programmes. The creation of 24 ERNs covering the major rare disease groups was approved in December 2016 and launched in March 2017 (call 1), involving more than 900 highly-specialised healthcare units from over 300 hospitals in 26 MS. A second call for healthcare providers to join existing ERNs was launched in 2019. At the end of 2021, the ERN Board of Member States, as given in the Implementing Decision 2014/287/EU Article 10, has approved the application of 620 new members. Since this second call, **Belgium participates in the 24 existing ERNs**.

A **list of the ERNs and the participating Health Care Providers per country** can be consulted on the Orphanet international portal¹³. A list of the centres participating in the ERNs in a given country is also available, through a search tool, on the European Commission website¹⁴.

The registration of the ERN-Belgian centres approved following the second call was done during the first months of 2022. In the context of the Ukraine crisis, the EC asked Orphanet to urgently register all the expert centres belonging to an ERN. The information provided by the EC to Orphanet was limited (name of the hospitals and list of diseases for which the expertise is recognized). Each national team was in charge of checking and completing the dataset through the validation of the diseases associated with the centres, adaptation of the name of the centres, translation of the label into local language(s), creation of location specifications (department, service, contact details), name of the medical coordinator, name of the members of the medical team, addition of the website link (if any), creation of the link with the ERN concerned, etc. A cleaning process (identification and deletion of duplicates) was also carried out. In order to perform this task, many contacts by emails and/or phone have been made with the clinicians involved, as well as with the managers of the ERNs when uncertainties remained at the disease level (ORPHAcodes) to be associated with the centres.

Special attention was given to the links to be established with (groups of) diseases for which the centres have a recognized expertise within the ERN. A correct choice of ORPHAcodes must be done, in order to best reflect the particular area of expertise of the centre while respecting the following Orphanet rules when we link an activity (i.e. an expert centre, a patient organization,...) to a list of diseases:

- the fact that "mother diseases" (group head of several diseases) are linked to "daughter diseases" (subtypes) in the hierarchical classification;
- if we associate an activity with a "mother disease", the activity will appear as associated with <u>all</u> its "daughter diseases" on the Orphanet website;
- we cannot at the same time establish a link with a group head and a disease under this group head.

For ERN-centres, this step requires a thorough consultation of the ERNs websites or of the application forms for membership (when available) but unfortunately, for some ERNs, the information on the specific disease coverage of each healthcare provider is not sufficiently detailed (or even absent). Moreover, when present, the data rarely provides information on specific ORPHAcodes covered by the centre but rather on large groups of disorders ("Main Thematic Groups"). When available, the information is carefully analysed in order to assign the centres to the ORPHAcodes that most accurately reflect their recognized area of expertise. The detailed Orphanet classification is sent to the experts (Excel file) to determine with them, as precise as possible, the rare diseases (ORPHAcodes) for which their participation in the ERNs has been validated.

It should be noted that in some cases, and in particular for the centres whose ERN membership was validated following the first call launched in 2016, the identification of the specific areas of expertise of

the centres was based mainly on a self-declaration by the professionals due to the lack of detailed information available on the ERN websites. With regard to the ERN centres whose membership was validated following the second call launched in 2019, the disease groups (ORPHAcodes) were selected by the Orphanet coordinating team (Inserm, France) based on the declaration the centres made to the EC in order to join the ERNs. If another choice of ORPHAcodes is deemed more relevant by professionals to better reflect the recognized expertise of their centres and to improve patient referral, the Orphanet Belgium team will analyze the request, in consultation with the Orphanet-Inserm coordination team.

In all cases, the identification of the specific expertise of the national centres belonging to an ERN is not validated by any designation committee in Belgium.

<u>Remark:</u> An Excel file with detailed information on the specific expertise of each ERN-centre is available on the EC website: <u>https://health.ec.europa.eu/consultations/2019-call-membership-existing-european-</u><u>reference-networks-erns_en</u> in the following section: "**The scope, criteria and thresholds of the diseases covered by each of the 24 ERNs**". However, this file is under construction (missing or incomplete data). Moreover, some ERNs still use terminologies other than the ORPHAcodes (such as ICD-10, OMIM, etc.) to provide information on the recognised expertise of the centres. A full revision of the Belgian ERN-centres will be considered on the basis of this document, once it is finalized.

100% of Belgian centres that joined an ERN as full members following the two calls are registered in Orphanet. This represents **95 Belgian centres from 10 different hospitals** (Table 1). However, the number of Belgian ERN-centres created in Orphanet (i.e. having a unique identifier) is much higher. This is due to the fact that many centres have asked to separate the paediatric section from the adult section, or have requested to create separate centres specific to each group of approved diseases (with different coordinators, team members and contact details). This increases the workload related to this task for the Orphanet collaborators, but it makes it easier for patients to identify the expert centres taking care of their specific condition.

	NAME OF THE ERN	NUMBER OF PARTICIPATING CENTRES IN BELGIUM (calls 1 and 2)	
1	VASCern: European Reference Network on Rare Multisystemic Vascular Diseases	5	
2	Endo-ERN: European Reference Network on Rare Endocrine Conditions	7	Share. Care. Cure.
3	ERN LUNG: European Reference Network on respiratory diseases	6	B · · · B
4	EuroBloodNet: European Reference Network on Rare Hematological Diseases	6	Co.co. Co D Networks
5	EURO-NMD: European Reference Network for Rare Neuromuscular Diseases	5	Control Aug
6	ITHACA: European Reference Network on Rare Congenital Malformations and Rare Intellectual Disability	5	
7	ERN-Skin: European Reference Network on Rare and Undiagnosed Skin Disorders	3	Call 1 (2017):
8	ERN-RND: European Reference Network on Rare Neurological Diseases	4	67 Belgian centres belonging to
9	EURACAN: European Reference Network on Rare Adult Cancers (solid tumors)	6	23 ERNs.
10	ERN-PaedCan: European Reference Network for Paediatric Cancer (haemato-oncology)	4	20 EKI43.
11	ERN-BOND: European Reference Network on Rare Bone Disorders	2	
12	MetabERN: European Reference Network for Rare Hereditary Metabolic Disorders	6	Call 2 (Dec 2021):
13	GUARD-HEART: Gateway to Uncommon And Rare Diseases of the HEART	3	28 Belgian centres belonging to
14	ERN-EYE: European Reference Network on Rare Eye Diseases	3	
15	EUROGEN: European Reference Network on urogenital diseases and conditions	4	19 ERNs.
16	ERN GENTURIS: European Reference Network on GENetic TUmour Risk Syndromes	4	
17	RARE-LIVER: European Reference Network on Rare Hepatological Diseases	4	
18	ReCONNET: Rare Connective Tissue and Musculoskeletal Diseases Network	3	
19	ERKNet: European Rare Kidney Diseases Reference Network	3	JL
20	EpiCARE: European Reference Network on Rare and Complex Epilepsies	2	
21	RITA: Rare Immunodeficiency, Autoinflammatory and Autoimmune Diseases Network	2	Belgium (95 <u>centres</u>)
22	ERNICA: European Reference Network on Rare inherited and congenital anomalies	3	participates
23	TransplantChild: European Reference Network on Transplantation in Children (incl. HSCT, heart, kidney, liver, intestinal, lung and <u>multiorgan</u>)	2	in the 24 existing ERNs
24	ERN CRANIO: European Reference Network on Rare craniofacial anomalies and ENT disorders	3	-
Total		95	

Table 1. Number of Belgian centres recognized as full members in each of the 24 existing ERNs

Some difficulties are currently encountered with regard to the designation of RD expertise in Belgium and therefore with the publication of centres listed as "expert centres" in Orphanet:

- 1) The number of Belgian centres that are full members of an ERN may seem high (n=95) for a small country like Belgium. Some professionals and patients consider that the selection processes applied by ERNs are not rigorous and homogenous enough to recognize "real" expertise. The high number of Belgian centres being members of one or more ERNs is partly explained by the fact that during the first call, there was no legislation put in place to regulate the application of centres. This regulation was only implemented at the time of the second call: only centres belonging to a RD function could apply for membership of an ERN. This will also be the case for the next calls. It should nevertheless be noted that Orphanet has a commitment with the EC to register the ERN centres in the different countries of the network. It is therefore mandatory to publish <u>all Belgian ERN centres</u> on Orphanet;
- 2) The Belgian criteria to register a centre in Orphanet (NIHDI convention or participation in an ERN) do not fully meet the expectations of some patients and healthcare professionals. Indeed, Orphanet Belgium quite often receives feedback from end-users who are not satisfied with the way expertise is currently represented in Orphanet. According to some, the current criteria do not provide a correct representation of the best national expertise available for a given rare disease. In addition, they believe that by only considering these two criteria for our selection, we reject applications for registration from centres that are legitimate to be considered experts in their field.

A discussion was initiated at the end of 2022 with the FPS Public Health to report complaints received by the Orphanet Belgium team and to look for solutions for a better representation of the "real" Belgian expertise in Orphanet, so that the patient is able to identify the centres offering the best diagnostic and treatment possibilities for a given rare disease (see page 40 for more information on this topic).

The table 2 shows the Belgian centres participating in ERNs for rare or complex diseases, listed by hospital:

NAME OF THE BELGIAN HOSPITAL	NAME OF THE EUROPEAN REFERENCE NETWORK (ERN)	DATE OF APPROVAL
	VASCern (Rare Multisystemic Vascular Diseases)	CALL 1 (2017)
	Endo-ERN (Rare Endocrine Conditions)	CALL 1 (2017)
	ERN-LUNG (Respiratory Diseases)	CALL 1 (2017)
	EuroBloodNet (Rare Hematological Diseases)	CALL 1 (2017)
	EURO-NMD	CALL 1 (2017)
	(Rare Neuromuscular Diseases) ITHACA	CALL 1 (2017)
	(Rare Malformation Syndromes, Intellectual and Other Neurodevelopmental Disorders) ERN-Skin	CALL 1 (2017)
	(Rare and Undiagnosed Skin Disorders) ERN-RND	
	(Rare Neurological Diseases) EURACAN	CALL 1 (2017)
	(Rare Adult Cancers (solid tumors) ERN-PaedCan	CALL 1 (2017)
	(Paediatric Cancer (haemato-oncology))	CALL 1 (2017)
Leuven University Hospital	MetabERN (Rare Hereditary Metabolic Disorders)	CALL 1 (2017)
(UZ Leuven) (22)	GUARD-HEART (Gateway to Uncommon And Rare Diseases of the HEART)	CALL 1 (2017)
	ERN-EYE (Rare Eye Diseases)	CALL 2 (2021)
	eUROGEN (Rare urogenital diseases and complex conditions)	CALL 1 (2017)
	ERN GENTURIS (GENetic TUmour RIsk Syndromes)	CALL 1 (2017)
	RARE-LIVER (Rare Hepatological Diseases)	CALL 1 (2017)
	ReCONNET	CALL 2 (2021)
	(Rare Connective Tissue and Musculoskeletal Diseases) ERKNet	CALL 1 (2017)
	(Rare Kidney Diseases) EpiCARE	CALL 1 (2017)
	(Rare and Complex Epilepsies) RITA	
	(Rare Immunodeficiency, Autoinflammatory and Autoimmune Diseases) ERNICA	CALL 1 (2017)
	(Rare inherited and congenital anomalies) CRANIO	CALL 1 (2017)
	(Rare craniofacial anomalies and ear, nose and throat disorders)	CALL 2 (2021)
	VASCern (Rare Multisystemic Vascular Diseases)	CALL 1 (2017)
	Endo-ERN (Rare Endocrine Conditions)	CALL 1 (2017)
	ERN-LUNG (Respiratory Diseases)	CALL 2 (2021)
	EURO-NMD (Rare Neuromuscular Diseases)	CALL 1 (2017)
	ITHACA (Rare Malformation Syndromes, Intellectual and Other Neurodevelopmental Disorders)	CALL 2 (2021)
	ERN-Skin (Rare and Undiagnosed Skin Disorders)	CALL 1 (2017)
	ERN-RND	CALL 2 (2021)
	(Rare Neurological Diseases) EURACAN	CALL 2 (2021)
	(Rare Adult Cancers (solid tumors) ERN-PaedCan	CALL 1 (2017)
	(Paediatric Cancer (haemato-oncology)) ERN-BOND	
Ghent University Hospital	(Rare Bone Disorders) MetabERN	CALL 1 (2017)
(UZ Gent) (21)	(Rare Hereditary Metabolic Disorders) ERN-EYE	CALL 1 (2017)
	(Rare Eye Diseases)	CALL 1 (2017)
	eUROGEN (Rare urogenital diseases and complex conditions)	CALL 1 (2017)
	ERN GENTURIS (GENetic TUmour RIsk Syndromes)	CALL 1 (2017)
	RARE-LIVER (Rare Hepatological Diseases)	CALL 1 (2017)
	ReCONNET (Rare Connective Tissue and Musculoskeletal Diseases)	CALL 1 (2017)
	ERKNet (Rare Kidney Diseases)	CALL 2 (2021)
	RITA RITA (Rare Immunodeficiency, Autoinflammatory and Autoimmune Diseases)	CALL 2 (2021)
	ERNICA	CALL 2 (2021)
	(Rare inherited and congenital anomalies) CRANIO	CALL 2 (2021)
	(Rare craniofacial anomalies and ENT disorders) TransplantChild	
	(Transplantation in Children (incl. HSCT, heart, kidney, liver, intestinal, lung and multiorgan)	CALL 2 (2021)

NAME OF THE BELGIAN HOSPITAL	NAME OF THE EUROPEAN REFERENCE NETWORK (ERN)	DATE OF APPROVAL
	VASCern (Rare Multisystemic Vascular Diseases)	CALL 1 (2017)
	Endo-ERN	CALL 2 (2021)
	(Rare Endocrine Conditions) ERN-LUNG	
	(Respiratory Diseases)	CALL 1 (2017)
	EuroBloodNet (Rare Hematological Diseases)	CALL 2 (2021)
	EURO-NMD	CALL 1 (2017)
	(Rare Neuromuscular Diseases) ITHACA	
	(Rare Malformation Syndromes, Intellectual and Other Neurodevelopmental Disorders)	CALL 1 (2017)
	ERN-RND (Rare Neurological Diseases)	CALL 2 (2021)
Antwerp University Hospital	EURACAN	CALL 2 (2021)
(UZ Antwerpen) (15)	(Rare Adult Cancers (solid tumors) ERN-BOND	
	(Rare Bone Disorders)	CALL 1 (2017)
	MetabERN (Rare Hereditary Metabolic Disorders)	CALL 1 (2017)
	GUARD-HEART (Gateway to Uncommon And Rare Diseases of the HEART)	CALL 2 (2021)
	ERN-EYE	CALL 2 (2021)
	(Rare Eye Diseases)	CALL 2 (2021)
	eUROGEN (Rare urogenital diseases and complex conditions)	CALL 2 (2021)
	RARE-LIVER	CALL 2 (2021)
	(Rare Hepatological Diseases) CRANIO	CALL 2 (2021)
	(Rare craniofacial anomalies and ear, nose and throat disorders) Endo-ERN	CALL 2 (2021)
	(Rare Endocrine Conditions)	CALL 1 (2017)
University Hospital Brussels	ERN-LUNG (Persisten Diseases)	CALL 2 (2021)
(UZ Brussel) (4)	(Respiratory Diseases) GUARD-HEART	CALL 1 (2017)
	(Gateway to Uncommon And Rare Diseases of the HEART) ERN GENTURIS	CALL I (2017)
	(GENetic TUmour RIsk Syndromes)	CALL 2 (2021)
AZ Sint-Maarten (Mechelen) (1)	VASCern (Rare Multisystemic Vascular Diseases)	CALL 1 (2017)
	VASCern	CALL 1 (2017)
	(Rare Multisystemic Vascular Diseases) Endo-ERN	
	(Rare Endocrine Conditions)	CALL 1 (2017)
	ERN-LUNG (Respiratory Diseases)	CALL 2 (2021)
	EuroBloodNet	CALL 1 (2017)
	(Rare Hematological Diseases) EURO-NMD	
	(Rare Neuromuscular Diseases)	CALL 1 (2017)
	ITHACA (Rare Malformation Syndromes, Intellectual and Other Neurodevelopmental Disorders)	CALL 2 (2021)
	EURACAN	CALL 2 (2021)
Cliniques universitaires Saint Lus	(Rare Adult Cancers (solid tumors) ERN-PaedCan	
Cliniques universitaires Saint-Luc (UCLouvain) (15)	(Paediatric Cancer (haemato-oncology))	CALL 2 (2021)
	MetabERN (Rare Hereditary Metabolic Disorders)	CALL 1 (2017)
	RARE-LIVER	CALL 1 (2017)
	(Rare Hepatological Diseases) ReCONNET	
	(Rare Connective Tissue and Musculoskeletal Diseases) ERKNet	CALL 1 (2017)
	(Rare Kidney Diseases)	CALL 1 (2017)
	EpiCARE (Rare and Complex Epilepsies)	CALL 2 (2021)
	(Rare inherited and congenital anomalies)	CALL 2 (2021)
	TransplantChild	
	(Transplantation in Children (incl. HSCT, heart, kidney, liver, intestinal, lung and multiorgan)	CALL 1 (2017)

NAME OF THE BELGIAN HOSPITAL	ELGIAN HOSPITAL NAME OF THE EUROPEAN REFERENCE NETWORK (ERN)	
	Endo-ERN (Rare Endocrine Conditions)	CALL 1 (2017)
	ERN-LUNG (Respiratory Diseases)	CALL 1 (2017)
	EuroBloodNet (Rare Hematological Diseases)	CALL 1 (2017)
University Hospital Erasme	EURO-NMD (Rare Neuromuscular Diseases)	CALL 1 (2017)
(ULB) (8)	ITHACA (Rare Malformation Syndromes, Intellectual and Other Neurodevelopmental Disorders)	CALL 1 (2017)
	ERN-Skin (Rare and Undiagnosed Skin Disorders)	CALL 1 (2017)
	ERN-RND (Rare Neurological Diseases)	CALL 1 (2017)
	MetabERN (Rare Hereditary Metabolic Disorders)	CALL 1 (2017)
	Endo-ERN (Rare Endocrine Conditions)	CALL 1 (2017)
	EuroBloodNet (Rare Hematological Diseases)	CALL 1 (2017)
Liège University Hospital (Centre Hospitalier Universitaire de	EURACAN (Rare Adult Cancers (solid tumors)	CALL 1 (2017)
Liège) (6)	MetabERN (Rare Hereditary Metabolic Disorders)	CALL 1 (2017)
	eUROGEN (Rare urogenital diseases and complex conditions)	CALL 1 (2017)
	ERN GENTURIS (GENetic TUmour RIsk Syndromes)	CALL 1 (2017)
Jules Bordet Institute (2)	EuroBloodNet (Rare Hematological Diseases)	CALL 1 (2017)
	EURACAN (Rare Adult Cancers (solid tumors)	CALL 1 (2017)
Hôpital Universitaire des Enfants Reine Fabiola - HUDERF (1)		

Table 2. Belgian hospitals participating in ERNs for rare or complex diseases (results of calls 1 and 2)

A list of all the Belgian centres participating in ERNs for rare or complex diseases (n=95, results of calls 1 and 2 launched by the EU, listed by ERN and specifying the recognized areas of expertise identified via the ORPHAcodes) can be found in **Annex 1**.

1.5. REGISTRATION AND UPDATE OF PATIENT ORGANISATIONS

The directory of Belgian patient associations registered in Orphanet is regularly revised, usually every two years or more frequently if needed. The Orphanet data is cross-checked with the list of members of RaDiOrg¹⁵ (the Belgian umbrella organization for people living with a rare disease). This work, as well as the consultation of other sources (national and regional alliances; EURORDIS¹⁶, the non-governmental patient-driven alliance of organisations and individuals active in the field of rare diseases in Europe; physicians and researchers working in close collaboration with support groups; congress, symposiums, forums, etc.), made it possible to identify new associations meeting Orphanet's eligibility criteria or to remove associations that have ceased their activities. The results of the regular analyses performed by the Orphanet Belgium team are shared with RaDiOrg, so that they can carry out a similar update on their own website.

An email is systematically sent to each of the organizations newly registered to ask to review the data published and to inform about the possibility of having their data deleted if they do not want it to be published on Orphanet, in accordance with the GDPR.

In early 2022, an update of registered patient associations was carried out. All associations whose last update dated back to more than 2 years (n=94) have been contacted by email (and if necessary, also by phone) to ask them to update their data. When possible, the data was always proactively updated on the basis of consultation of the websites, Facebook pages and publications in the Belgian Official Journal. Only confirmation of the relevance of published data was requested from the associations. Following the COVID-19 outbreak, many associations have encountered difficulties, particularly financial ones, which unfortunately led to a stop in activity for some of them. Conversely, other organizations have been created.

In 2022, 8 Belgian patient organisations were created in Orphanet :

- "Association Syndrome de Cornelia de Lange (point de contact pour la Belgique francophone)";
- "Vereniging Cornelia de Lange syndroom (aanspreekpunt voor Nederlandstalig België)";
- "BePOPI Belgische organisatie van en voor PID-patiënten/Organisation belge de et pour les patients DIP";
- "BorstkankerMAN vzw";
- "Donner des ailes asbl Association belge du syndrome d'Angelman";
- "Mymu Wallonie-Bruxelles asbl";
- "Rare Disorders Belgium (RDB) asbl" (previously published only as an alliance);
- "Ring14 Belgium vzw".

3 patient organisations were deleted, following their cessation of activity or because they no longer met Orphanet's inclusion criteria:

- "Can Cé-Tu? asbl";
- "Prader-Willi Belgium asbl";
- "Association belge des Victimes du Syndrome Valproate/Belgische Vereniging van Slachtoffers van Valproaat Syndroom".

A list of the Belgian associations active in the rare disease field published on Orphanet (n=119, data from December 2022, specifying the associated (groups of) diseases identified via the ORPHAcodes) can be found in Annex 2.

1.6. REGISTRATION AND UPDATE OF DIAGNOSTIC TESTS

For patients affected by a rare disease, obtaining a timely and accurate diagnosis is key in accessing appropriate medical expertise. **Orphanet is the reference database in the framework of the European Commission Expert Group on Rare Diseases (CEGRD) Recommendation on Cross Border Genetic Testing of Rare Diseases in the European Union¹⁷. Our database offers, amongst a range of expert resources on rare diseases, a directory of diagnostic tests. Registering the portfolio of diagnostic tests makes it easy to identify the laboratories performing a specific test. It has also an added-value for the geneticists since this allows to report on the evolution of techniques. It facilitates cross-border genetic testing, which is particularly interesting in the field of rare diseases. Finally, it contributes to sharing of expertise between professionals and to establishment of collaborations leading to a more efficient use of costly resources.**

About 1,200 tests performed in Belgium laboratories are currently registered in Orphanet. The registration and update of the Belgian genetic tests registered in Orphanet is a task performed in collaboration with the **Belgian Genetic Tests Database** (BGTD)¹⁸. This database is developed by Sciensano, in close collaboration with the geneticists of the 8 officially-recognized genetic centres. It centralizes comprehensive and relevant information about tests offered in Belgium for the diagnosis of diseases with a genetic basis. There is no obligation to register a genetic testing activity in Orphanet. When geneticists register their data in the BGTD, they are asked to specify whether they accept the publication of the data on Orphanet. If they don't give their agreement, the test can be registered but will not be visible on the Orphanet website intended for the general public. It will only be collected and registered in internal databases for analytical purposes.

An automated system for transferring information from BGTD to Orphanet, following modifications that can be made at any time by the geneticists at the level of BGTD, has yet to be set up. The conclusion of agreements and the development of Application Programming Interfaces (APIs) between the BGTD and the Orphanet-Inserm platform should allow regular transfers of Belgian diagnostic tests to Orphanet in the future. However for the moment, the communication of information is done manually, on the basis of Excel files updated regularly and shared between the manager of the BGTD and the manager of the Orphanet Belgium database.

The transfer of information from BGTD to Orphanet is neither an automatic injection of data from one database (BGTD) to another (Orphanet) nor a simple copy-paste. The tests are analyzed and validated manually one by one, in order to adapt them to the Orphanet project. The main objective is to provide standardized and harmonized data to Orphanet users (e.g. label of the test in English and local language, compliance with criteria related to the description of the technical procedure, verification of gene-disease links via specific tool, etc.). This task can also involve the creation of new data in Orphanet (genes, diseases or genes-diseases relationships not yet registered).

The dataset currently related to diagnostic tests is often considered too complex by clinicians and by Orphanet collaborators, in particular the data on techniques. Moreover the content of gene panels changes so often that it is difficult to have the information always up to date, in order to properly reflect the panels that are in use by laboratories at any given time. Therefore **a complete revision of the procedure for diagnostic test registration was launched in Q3 2022 by the Orphanet coordinating team. The Orphanet Belgium IS participates in the working group aiming to discuss different options to develop a new diagnostic test model.** The main objective is to reduce the dataset and make it more simple, in order to have a better coverage of diagnostic tests in the Orphanet database. The decisions taken during these meetings will be submitted to the vote of the Orphanet Management Board at the end of 2022 and a lot of data adaptation work will have to be done in 2023 according to the new business rules which will be put in place for the registration of diagnostic tests in Orphanet.

A similar reflection concerning the registration process for non-DNA tests (in particular biochemical tests) should be carried out in the course of 2023.

1.7. REGISTRATION AND UPDATE OF CLINICAL TRIALS

A clinical trial for the Orphanet database is an interventional study aiming to evaluate a drug (or a combination of drugs, a biological product, a medical device) to treat or prevent a rare disease or a group of rare diseases. The data collection by the Orphanet consortium concerning clinical trials is of utmost importance as it helps professionals and patients to obtain a centralized, quality controlled access to the current state of the art on these data.

The Orphanet coordinating team is in charge of the centralized collection of clinical trials through a partnership with the <u>International Clinical Trial Registry Platform (ICTRP)</u>, supported by the World Health Organization. The ICTRP database centralizes data on clinical trials provided by national and international registries such as:

- the European Clinical Trials Database (EudraCT)

- <u>Clinical trials.gov</u> (searchable registry and results database of clinical trials conducted in the United States and around the world).

For **national clinical trials** (i.e. clinical trials involving only one country of the Orphanet consortium), a list of clinical trials potentially concerning a rare disease (or a group of rare diseases) is sent monthly by the Orphanet coordinating team to the national teams, in order to be assessed. **For Belgium, this eligibility assessment concerned 35 national clinical trials in 2022.** The dataset of each clinical trial (title, phase, date of first enrolment, recruitment status, sponsor, intervention, etc.) is checked by the Information Scientist and completed if necessary. The link to be established with the relevant ORPHAcode(s) is analysed. The inclusion/exclusion criteria are verified and only the data meeting the Orphanet inclusion criteria are registered by the IS and revised by the coordinating team in order to be displayed on the Orphanet public website.

Multinational clinical trials (i.e. involving more than one Orphanet country) collected from ICTRP database and that are missing in Orphanet are also regularly registered. **For Belgium, this task concerned 41 multinational clinical trials in 2022.** For each of these clinical trials, the inclusion/exclusion criteria are checked in order to confirm the disease link suggested by the Orphanet coordinating team. National teams are particularly involved in collecting and registering details on the principal investigator and on the location of the investigation centres, in order to create the corresponding national clinical entry.

ICTRP is the major source of information for clinical trials but **registration can also come from selfdeclarations by professionals and from national monitoring.** National teams are indeed in charge of identifying the other relevant sources of information for clinical trials in their country, in order to complete the centralized collect of clinical trials. An <u>online database of Belgian clinical trials</u> was created in 2018 by the Federal Agency for Medicines and Health products (FAMHP). This is a helpful source of information, in particular to identify details on the investigation centres in our country. However it holds information on all the clinical trials approved in Belgium by the FAMHP, and not only clinical trials conducted on rare diseases.

1.8. REGISTRATION AND UPDATE OF RESEARCH PROJECTS

The Orphanet coordinating team collects projects funded by the <u>International Rare Diseases</u> <u>Research Consortium (IRDiRC)</u> members at the European level. IRDiRC is a consortium that unites national and international governmental and non-profit funding bodies, companies (including pharmaceutical and biotech enterprises), umbrella patient advocacy organizations and scientific researchers to promote international collaboration and advance rare diseases research worldwide.

National teams are in charge of identifying the sources of information for research projects on rare diseases in their country. In Belgium, national funding institutions are regularly consulted to obtain information on funded projects. The Belgian Federal Science Policy has developed a database, "INVENT" that gathers all the research data collected by:

- the French-speaking Community (<u>http://www.cref.be/</u>);
- the Flemish Community on the FRIS Research portal (<u>https://www.researchportal.be/nl</u>);
- the Federal Authorities (<u>http://www.belspo.be/</u>).

There is no Belgian database for research projects dedicated specifically to rare diseases. Searches via the databases mentioned above are carried out without the possibility of using a filter specific to RD. It is therefore very time-consuming to identify projects dedicated specifically to rare diseases using these databases. Research projects can also be found in websites of funding bodies, patient organisations, public research organisations, etc. Moreover, like other resources, they can be obtained via professionals declaring their activity through our online registration tool or by email.

In 2022, new ongoing Belgian research projects related to several rare diseases (e.g. ORPHA:293987 <u>Rapid-onset childhood obesity-hypothalamic dysfunction-hypoventilation-autonomic dysregulation syndrome</u>, ORPHA:805 <u>Tuberous sclerosis complex</u>, etc.) have been registered.

Polaris (Figure 6), a Web interface for visualization, curation and analysis of rare disease research landscape is being developed in the frame of the IRDiRC roadmap. It is developed by *MyScienceWork* and funded through the Support-IRDiRC project and currently by the European Joint Co-fund programme for rare diseases (EJP RD). This new tool should be officially launched in the beginning of 2023 for the funders members of IRDiRC and for the Orphanet network members.

The main goals of the Polaris platform are:

- to facilitate the data capture of research projects;
- to develop a semi-automatic complete cycle of collection, curation and exploitation of the research project database;
- to allow the exploitation of the Orphanet database at a single web interface;
- to provide a web analysis interface to both Orphanet and IRDiRC members.

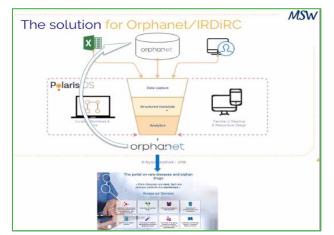


Fig.6. Illustration of how the future Polaris platform will work

1.9. REGISTRATION AND UPDATE OF REGISTRIES

There is no Belgian database for registries dedicated specifically to rare diseases. This type of data is therefore particularly difficult to identify.

However patient registries can be identified through research projects, networks, funding bodies, pharmaceutical and biotech companies, patient organisations, peer reviewed publications or following contact with experts in the field.

In 2022, a few new Belgian patient registries related to rare diseases (e.g. ORPHA:89936 <u>X-linked</u> hypophosphatemia, etc.) have been registered in the Orphanet database.

2. Monitoring of the Orphanet Belgium team's activity

A "**National team's Quality Monitoring Dashboard**" has been developed by the Orphanet coordinating team based on a series of indicators (e.g. carrying out quality tasks in terms of content and timeliness, regular update of the registered data, treatment of the forms submitted via the online registration tool, participation in internal trainings, presence at the Orphanet Management Board meetings, etc.) to define the minimum activity requirements of a national team.

The **latest analysis was carried out for the period July 2021-July 2022** for all national teams belonging to the Orphanet consortium. **For Belgium, all the indicators are in green**, meaning that the quality of the activities carried out by the Orphanet Belgium team is equal to or above the expected threshold.

INDICATORS ON THE ORPHANET ONLINE REGISTRATION SERVICE ACTIVITY

Collector is the back-office tool of the online Orphanet registration service¹⁹. It is used by information scientists, national validators and the international coordinating team to process the professionals' requests for registering or updating their activities related to rare diseases in Orphanet. This online registration service was launched in the beginning of 2014.

In 2022, 35 forms were submitted by Belgian professionals and completely processed. 13 forms concerned new data and 22 were update requests to data already registered. This number has fallen sharply compared to the previous years, with Orphanet users seeming to favour communication by emails. However this figure needs to be put into perspective. Firstly, individual requests usually involve changes to many different related types of data. Moreover, Collector is not the only source available for registration/update requests. Although we encourage the use of this online registration tool for traceability issues, many requests are submitted to the Orphanet Belgium team by emails or phone calls. In this case, the requests are processed but not counted in Collector.

It is always possible to **check when the published data was last updated** (either following a contact with the person in charge of the activity or following the last verification by the IS of the reliable official/legitimate source of information), as shown in the screenshot below (Figure 7).

Belgian Association a organization	against Neuromuscu	ular Diseases non-profit	
Website 🖸		Phone :+32 (0)64 45 05 24	
Head of organisation : Mr Jean-M		Additional Phone :+32 (0)499 74 23 27	
Association Belge contre les Malad		Fax :-	
Association Belge contre les Malad		Contact : info@abmmbe	
Rue Achille Chavée, 52 B02	les fieuro-musculaires	Geographic coverage : National	
7100 LA LOUVIERE		Geographic coverage : National	
BELGIUM			
More information		Last update: Fe	bruary 2022
Part of			
FRANCE PARIS	Euro-DyMA : Federation of E Dystrophy Associations Institut de Myologie - Hôpita		
GERMANY FREIBURG IM BREISGAU	<u>SMA Europe</u> SMA Europe	More information	

Fig.7. Screenshot of the Orphanet website: the Orphanet Belgium team updated information about a patient organisation (mention of its participation in an international network, addition of diseases for which the association provides information and support) following email exchanges. The date of the last update is visible.

MANAGEMENT OF THE ORPHANET BELGIUM WEBSITE

The Orphanet Belgium team ensures the maintenance and update of a <u>national Orphanet website²⁰</u> available in two languages, French and Dutch. The Orphanet national website contains information specific to Belgium. A new Orphanet Belgium website has been in preparation since the end of 2022 and will be officially launched no later than the next Rare Disease Day in February 2023. The objective is to offer our users a site with a new look that is more catchy and user-friendly (Figure 8).



Fig.8. Screenshot of the homepage of the new Orphanet Belgium website

The following topics are covered:

- Contact: on this page the contact details of the Orphanet Belgium team can be found;
- Team/Board/ Partnerships: short description of the Orphanet Belgium team and Management Board with mention of the sponsors (FPS Public Health, Sciensano and INAMI-RIZIV) and partners (BGTD, RaDiOrg, etc.);
- Historical background of the Orphanet network;
- National news and events. This can include information about the rare diseases day, calls for patients to participate in clinical research, conferences in Belgium and abroad, patient association initiatives, training opportunities, etc. The calendar of events is regularly updated;
- **General information:** information about the Orphanet network, rare diseases and orphan drugs (explanations on the activities, organization and financing; latest version of the activity reports; instructional videos on the nomenclature and on the use of the search tool for a disease or a gene, etc.) are available, as well as information on the Orphanet quality commitment;
- Criteria for Belgian Expert Resources: document mentioning the definitions, sources of information and inclusion/exclusion criteria for expert resources. Documenting inclusion criteria for expert resources in each country is of great relevance for the end-users of Orphanet to know how data is collected at the national level, as well as the selection criteria used. Therefore a pdf document¹² listing each type of data (expert centres, medical laboratories and diagnostic tests, patient organisations, research projects, clinical trials, registries and biobanks) and our sources of information (i.e. public or private institutions, funding bodies, national umbrella patient organisation, clinical trial databases, etc.) as well as their inclusion/exclusion criteria can be found in the "Documents" section of our national website.

PARTICIPATION IN THE OD4RD PROJECT

Rare diseases are still poorly represented in the medical terminologies in use. There is no terminology specific to rare diseases with the exception of the nomenclature of rare diseases developed by Orphanet (based on ORPHAcodes). One of the main objectives of the <u>Orphanet Data for Rare Disease project</u> (OD4RD), co-funded by the EU4Health program of the European Commission, is to advance the implementation of ORPHAcodes in hospitals hosting the ERN-centres of many European countries and to use the expertise of ERNs to further improve the Orphanet nomenclature. This should allow to establish a common language, with codes specifically for rare diseases, in order to effectively monitor and report on rare diseases (including undiagnosed cases) at European level.

The OD4RD project has been launched in January 2022 for a 12 months period, and has been extended until March 31st 2023. During the pilot year, a **network of national hubs has been developed in 13 MS countries** (Austria, Belgium, Czech Republic, Finland, Germany, Italy, the Netherlands, Norway, Poland, Portugal, Spain, Sweden, Slovenia) **and in Switzerland** as an observer (Figure 9).

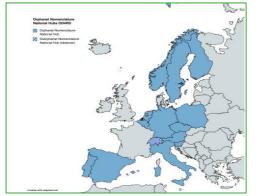


Fig.9. Network of OD4RD nomenclature and codification national hubs

This **European project builds on Orphanet's specific expertise** and on its organisation as a longlasting, well-established network, to fulfil the following **general objectives**:

- 1. To contribute to the generation of standardised, interoperable data on RD diagnosis for primary and secondary use, through maintenance of the Orphanet nomenclature of RD in collaboration with ERNs, and active support for its implementation in hospitals hosting ERNs;
- To contribute to the harmonisation of data collection amongst various settings (health records, registries) and amongst countries, through dissemination of coding good practices at the source (health records, registries, etc.);
- 3. To support evidence-based decision-making in the frame of the European strategy around ERNs, by providing an exploitable reference corpus of data and information on RDs.

In Belgium, the OD4RD National Hub is hosted by Sciensano which participates in work package 4. The main objective of WP4 is to ensure support for the local implementation of ORPHAcodes into routine coding systems of national HCPs hosting ERNs (or linked to ERNs). Orphanet national nomenclature support hubs must facilitate a real ORPHAcodes implementation (from a technical point of view) and use (from a coding and data exploitation point of view) in health information systems.

PARTICIPATION IN THE OD4RD PROJECT

A **state of play survey** among participating countries was launched at the beginning of the OD4RD project to assess each national situation in terms of ORPHAcoding implementation. A **report compiled from the survey** on the situation in each of the national Orphanet nomenclature hubs set up in 2022 is available. This revealed that the **overall picture of RD coding with ORPHAcodes is very different between WP4 participating countries.** The range extends from already implemented ORPHAcodes with linkage to ICD-10 in national coding systems used in all hospitals to not yet using ORPHAcodes at all. In Belgium, the situation is complex because a transition to SNOMED CT[®] as the common national reference terminology in all electronic health records is underway. Moreover no legislative framework and no incentive (i.e. financial support deemed necessary by some centres to adopt the ORPHAcodes, which require additional work to record data and adapt and maintain data recording tools) is foreseen.

Taking into consideration the different situation and needs of end users in regards to ORPHAcodes implementation in the WP4 participating countries, it has been necessary to develop individual **national action plans** to achieve the project goals. The coordinating partners of WP4 (BfArM and Inserm) developed a template that enabled the participating countries to document the development of their measures to ensure support for the local implementation of ORPHAcodes in national HCPs. This template was divided into four sections: trainings/workshops, networking, helpdesk implementation and further activities. These topics were discussed during the **monthly WP4 conference calls** and experiences of the different countries were shared in order to benefit from each other and to address common topics in a coordinated manner.

All OD4RD project deliveries can be accessed here: https://od4rd.eu/03-deliverables

One of the main tasks of an OD4RD national hub is to **provide training sessions on Orphanet nomenclature and classification**, in local language(s), to clinicians, coders, hospital information managers, statistical services and other stakeholders of ERN centres. The following table (Table 3) shows the list of Belgian hospitals that received training in 2022. Flexibility in the types of training is offered: there are various possibilities in terms of methods (online, on site), duration (from 2 hours to a day, depending on availability and needs) and testing of knowledge autonomously via online quizzes. The training sessions have been recorded in order to distribute the course to people who could not attend the training (Figure 10).

NAME OF THE HOSPITAL	DATE	HOW?	REMARK
UCL Saint-Luc, Brussels	April 29, 2022	Online, in French/English	Two-hours session, basic training on nomenclature and codification, theoritical part. Participants: clinicians and RD coders (n=15).
UCL Saint-Luc, Brussels	August 29, 2022	Online, in French/English	Based on the advanced quiz developed by the Orphanet coordinating team (Inserm). Participant: RD coordinator (n=1).
Ghent University hospital	September 19, 2022	Online, in Dutch	Two-hours session, basic training on nomenclature and codification, theoritical part. Participants: clinicians and RD coders (n=15).
Liège University hospital	October 21, 2022	Online, in French/English	One-hour session, Q&A on ORPHAcodes use, advanced level (ORPHAcodes already used in the patient files). Participants: clinicians and RD coders (n=12).
Other hospitals with a RD function: UZ Brussel, UZ Antwerpen, UZ Leuven, HUB (Erasme, HUDERF, Bordet), GHdC-IPG	To be planned in 2023 with the healthcare professionals	Online or on site. In French/Dutch or English.	/
Non-university hospitals, ERN-centres and any institutions involved in the RD field	To be planned in 2023-2025 with the healthcare professionals	Online or on site. In French/Dutch or English.	/

Table 3. Trainings on Orphanet nomenclature and classification delivered to Belgian hospitals in 2022

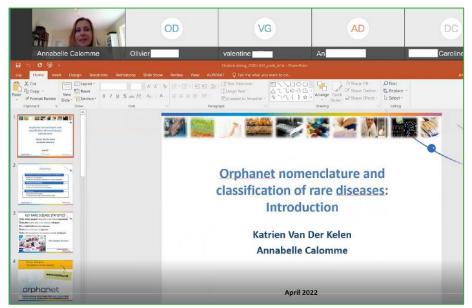


Fig 10. Screenshot of the online training session organised on April 29, 2022 for clinicians and coders from the Cliniques universitaires Saint-Luc's Rare Disease Institute

Furthermore, each OD4RD national hub must actively participate in **advocating ORPHAcodes towards national decision-makers** (e.g. Ministry of Health, federal and regional institutions, hospital managers, etc.) making use of the promotional material (guidelines, flyers, videos, etc.) provided by the Orphanet coordination and adapting or translating it when needed.

Finally, the national hubs are in charge of **establishing an ORPHAcodes helpdesk** in local languages. This helpdesk is dedicated to answering questions related to the Orphanet nomenclature content and the implementation of ORPHAcodes in Health Information Systems. It will provide guidance for both implementing the nomenclature and using the nomenclature and classification for statistical aggregation analysis for coded data.

For this purpose, a **central OD4RD Github** has been set up: it is an online ticketing system that allows requests to be stored, tracked and made available to others. This system facilitates a simple and interactive workflow. After creating an account, issues can be posted.

A **FAQ section within the GitHub** has been developed by the Orphanet coordinating team based on users' questions. It provides standardised and generalised reference answers among 7 main topics: alignments with other terminologies, coding recommendations, education and communication, epidemiology of RD, ORPHAcodes and nomenclature, Orphanet classification and Orphanet tools. It is open access to any end users.

In Belgium, a process is also in place to manage questions addressed by emails (**Orphacodes.Belgium@sciensano.be**) by ORPHAcodes users.

The project has been renewed until the end of 2025 (OD4RD2). During this next phase (April 2023-December 2025) the network will be expanded to 6 new national hubs (Bulgaria, Ireland, Estonia, Latvia, Lithuania and Romania) with the objective to have 19 + 1 observer fully autonomous National Hubs. The OD4RD2 project will capitalize on the pilot phase and has the ambition to increase the number of ERNs collaborations and develop material to better explain how to deal with coding-related issues.

Ultimately, the OD4RD project will contribute to better diagnosis and care of RD patients, as it will allow comparability of data, and therefore assessment of current practices and results against gold standards of care, necessary for taking actions and improvement in the RD field.

TRAINING ACTIVITIES

1. Orphanet Information Scientist trainings

As part of the continuous development of its collaborators, the members of the Orphanet Belgium team participated in various training courses organised by the Orphanet-Inserm coordinating team. Following public health measures due to the COVID-19 crisis, the annual training usually held in Paris (Orphanet headquarters) could not take place. Online trainings for Information Scientists were organized from March to April 2022 (11 sessions of approximatively 2 hours).

The main focus was on:

- learning how to use the complex Orphanet rare diseases classification, in order to fully
 understand how RDs are organised into classifications and the consequences of linking
 resources at different levels of classifications on the way resources are displayed on the
 Orphanet website;
- using the Orphanet tools (Figure 11) : Arbor to explore all the classifications of diseases produced by Orphanet; Collector (collection of requests for registration or updates submitted by professionals in Professor), Major and Major 2 (editorial tool to create, update, delete data in the database), Plator (allows pre-defined dataset extraction from the database or inject data if rights allow), Seqtor (search the links between different entities in the database), Uploador (allows to upload a document into the database), Redminor (communication tool between the national teams and the coordinating team).



Fig.11. Orphanet tools overview

Here are some examples of topics covered by the 2022 IS Orphanet trainings:

- General presentation of the Orphanet network and portal;
- Nomenclature and classification of rare diseases: what is a rare disease ?; characteristics, purpose and organisation; how to access and use them; how they are updated and maintained; how to search for a disease in the database; how to make a request to the nomenclature team;
- How to link an expert resource to a disease in the database: understand how expert resources are displayed on the Orphanet website and get familiar with the functional classifications;
- Presentation of the Orphanet tools;
- For each expert resources (expert centres, patient organisations, umbrella organisations/alliances, diagnostic tests, clinical trials, research projects, registries and biobanks): a specific session on data collection, data selection, data validation (Pre-release QC), data registration and publication, data post-release quality control, data workflow;
- Genes: how are genes registered in the database and what is needed to register them.

2. OD4RD "Train the trainers" program

For the OD4RD project endeavors to be successful, **well-trained National Nomenclature hubs are needed to support local implementation of ORPHAcodes.** During the summer of 2022, basic and advanced sessions were organised by the Orphanet nomenclature project manager and the national hubs scientific coordinator in order to train the collaborators involved in the Orphanet nomenclature trainings and in the dissemination of the Orphanet Nomenclature and Classification at the national level.

The main purpose of these trainings is to ensure that all hubs can fully explain the benefits of ORPHAcoding versus other general terminologies as well as the alignments methodology with other terminologies and the different services and tools available, so that they can discuss at the hospital level what solution can be implemented to ease the burden of the coders regarding rare diseases.

Each national hub acts as a **national helpdesk** and a contact point for all questions related to ORPHAcodes. It promotes ORPHAcoding to the different stakeholders and organizes trainings in local language(s) for clinicians, geneticists and coders to ensure accurate and standardized coding practices.

3. National Orphanet website trainings

At the end of 2022, Inserm developed a **new version of the national Orphanet websites**, based on the <u>content management system Grav</u>. All national Orphanet websites have been fully updated, including the Belgian Orphanet websites. Subsequently, the structural web pages have been translated into French and Dutch and the content has been adapted to the Belgian context.

To become familiar with this new system, the Belgian Orphanet team participated in training courses organized by the Orphanet coordinator (3 sessions of about two hours organised in November and December 2022).

From February 2023, the new Belgian Orphanet websites will be publicly accessible at the following addresses:

- <u>https://orphanet.site/belgique</u> for the French-language website;
- <u>https://orphanet.site/belgie</u> for the Dutch-language website.

NATIONAL AWARENESS AND NETWORKING

One of the Orphanet network's missions is to **increase the awareness and the dissemination of knowledge on rare disorders.** Several actions concerning the Orphanet database and related tools were carried out to this end by the Orphanet Belgium team in 2022.

1. Meeting with the CHU Liège RD coordinator on the implementation of ORPHAcodes

An online meeting was organized with the rare disease coordinator of CHU Liège, Ms. Sylvie Taziaux, on February 07, 2022. She leads a project that contributes to the use of ORPHAcodes in the medical records of rare disease patients at CHU Liège. She explained her experience concerning the creation of a specific tool designed for rare diseases coding in computerized patient files. Following its creation in 2018, the adoption of this tool was a long and difficult process, not only because of technical obstacles but also because of the resistance of a part of the clinicians, although the Orphanet website is generally already well known and appreciated in this hospital. The fact is that clinicians are not always convinced of the importance and benefits of making the RD patients particularly visible by means of a specific code. Moreover, the search for the correct ORPHAcodes is sometimes considered tedious and time-consuming.

Based on this experience, our team could anticipate that a lot of awareness-raising, both on the level of the local project manager and on the level of the heads of hospital departments, will be necessary to convince the Belgian specialists (clinicians, as well as coders, hospital information managers, IT services and other stakeholders involved) to improve their knowledge of ORPHAcodes and generalize their use in hospitals. In this sense, the organisation of national trainings planned within the framework of the OD4RD project is particularly relevant.

2. Participation in the 2022 Rare Disease Day

Rare Disease Day is a global initiative which takes place every year on the last day of February. In **Belgium, this is the opportunity for RaDiOrg**¹⁵, **the umbrella association for people living with a rare disease, to present its awareness campaign.** This year, the main idea of this campaign was to make the expectations of all people living with rare diseases concrete and visible in terms of diagnosis and care, by setting up a physical waiting room in the heart of Brussels (Figure 12). Starting from February 28 for three subsequent days, rare disease patients, healthcare providers, loved ones and supporters took turns to draw attention to this important public health issue. Meetings with decision-makers and politicians were organized in the waiting room in order to find solutions to end the waiting time for diagnosis setting and care.

A **petition was also launched by RaDiOrg** on this occasion in order to ask political decision-makers to work in favor of more appropriate care for people living with rare diseases.

As every year, the Rare Disease Team of Sciensano participated in this awareness-raising action. We contributed to the promotion of the RaDiOrg campaign, both online (e.g. by sharing information on the Orphanet Belgium website, on the Sciensano website and on social networks; using banners in the email signatures, etc.) and offline (by sticking up posters containing key information on the issues of rare diseases in our country).



Fig.12. Visuals of the awareness campaign launched by RaDiOrg in 2022 for the International Rare Disease Day

3. Oral presentation at the OD4RD Final Meeting

The Final OD4RD meeting was a hybrid event organised by the Orphanet Network Coordinating team (Inserm) on October 6, 2022. It was held at the Cité Universitaire in Paris and online, and gathered **83 participants including all project partners as well as ERNs and other stakeholders.** The main objectives of this meeting were allowing ERNs and the external partners to learn about the project and its current and planned outcomes and to discuss on potential improvements, additional tasks and challenges to be addressed in the next months of the project and in its next phase ("OD4RD2" project).

Part of the Sciensano RD team was present in Paris. On this occasion, an **oral presentation of the Belgian action plan and the achievements of the Belgian hub** was given by the Orphanet Belgium IS (Figure 13).



Fig.13. Presentation of the Belgian action plan of the European OD4RD project by Annabelle Calomme (Orphanet Belgium, Sciensano) during the final OD4RD meeting in October 2022 in Paris

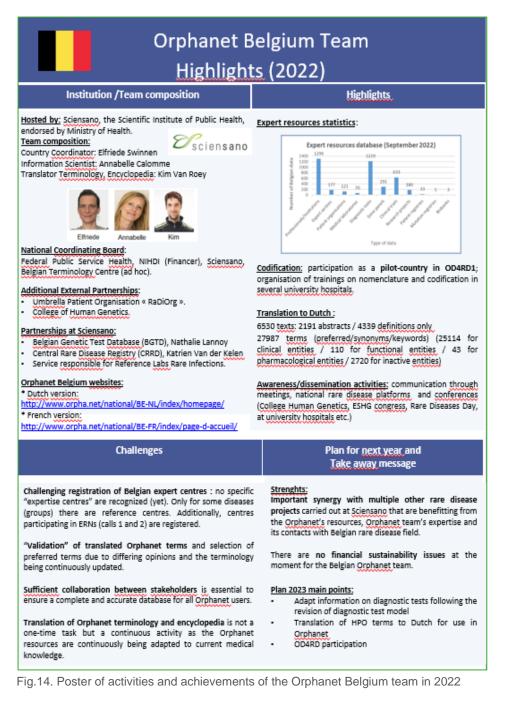
4. Participation in the Orphanet annual meeting

The **2022** Orphanet Annual meeting was held as a satellite event of the OD4RD Final meeting organised by the Orphanet Network Coordinating team (Inserm). The meeting was held in Paris and online on the 7th October 2022 and gathered **65** participants.

The objectives of this meeting were multiple:

- assess what has been done in the past year by the coordinating team, by each single National Team and by the Network as a whole;
- agree on the strategic annual action plan;
- discuss on potential improvements, additional tasks and challenges to be addressed in 2023.

A poster summarizing the main activities and achievements of the Orphanet Belgium team in **2022** was presented on this occasion (Figure 14).



5. Meetings with the FPS Terminology Centre

In Belgium, the <u>Terminology Center</u> within the FPS Health, Food Chain Safety and Environment is the organization responsible for the management and implementation of the Belgian national version of SNOMED CT® in patient files. In 2013, Belgium opted for SNOMED CT® as the common terminology in the medical sector and a transition to SNOMED CT® as the national reference terminology in all Belgian electronic health records (EHR) is underway (planned for 2027).

The Orphanet Belgium team actively promotes the use of ORPHAcodes in EHRs as one of our missions as a participant in the OD4RD project. ORPHAcodes are indeed the *sine qua non* condition for RD data interoperability, for RD patients' visibility and for linking healthcare and research settings. However, the implementation of ORPHAcodes remains a big challenge in Belgium knowing that the national health authorities support the use of only one coding system (SNOMED CT®) in the EHRs.

To discuss this topic, the Sciensano RD team organized two meetings with the Terminology Center in November and December 2022. Our main objective was to demonstrate why the use of ORPHAcodes is a crucial need for the RD community by presenting a list of strong arguments validated by the Orphanet coordinating team in charge of these aspects (Figure 15). The Terminology Center agreed that for the RD field, the ORPHAcoding system has clear advantages compared to a generic medical terminology. However, they confirmed their decision to keep only one coding system -SNOMED CT® - in the Belgian EHRs.



Fig.15. PowerPoint presentation on the importance of the implementation of ORPHAcodes in the Belgian HIS

Several advances have nevertheless been achieved:

- If a RD is missing or not sufficiently accurately represented in SNOMED CT® at the moment that the mapping between SNOMED CT® and ORPHAcodes can be considered as complete as possible, Sciensano can ask the Terminology Center to add the missing entity to the "national extension of SNOMED CT" in which concepts specific to Belgium can be added;
- The Terminology Center agreed that a flag (logo) to indicate rarity based on a SNOMED ID that maps to an ORPHAcode in a patient file would be very useful to make these patients more visible and to improve their chances of good clinical management (especially in emergency situations). They therefore proposed to work on a system that will add a flag in the EHR when a SNOMED CT® ID for a RD (i.e. corresponding to an ORPHAcode) is used to diagnose a RD patient;
- The Terminology Center proposed to start a **working group with Sciensano** (from 2023), in order to share our needs in the field. Ideally, this working group should include representatives from hospitals (e.g. representatives from the RD functions) for validation, in order to check the usability of the rarity flag in the electronic patient files.

Orphanet considers that the solutions proposed by the Terminology Center are not optimal, since it involves the creation of an additional system ("SCT BE extension", National Extension including Dutch and French translations) that should be maintained. This option will be more costly and less accurate than using directly the Orphanet nomenclature system that is up-to-date and free.

6. Meeting with the FPS Public Health and the Ministry of Health regarding the designation of RD expertise in Belgium

In Belgium, the Orphanet Management Board composed of representatives of Sciensano, as well as members of the national health authorities (FPS Public Health) and members of the National Institute for Health and Disability Insurance (NIHDI) decides on the criteria for registration of Belgian activities, while respecting the European Orphanet eligibility criteria.

Currently, two categories of Belgian expert centres are authorized to be registered in Orphanet:

- the officially-designated centres (i.e. the reference centres having a convention with the NIHDI with a specific focus on rare diseases, the genetic centres and the hospitals recognized by the regional health authorities to have a "rare disease function");
- the centres participating in a European Reference Network (ERN).

The Belgian criteria don't fully meet the expectations of some patients and healthcare professionals. Indeed, in Orphanet Belgium, we quite often receive feedback from patient organisations and professionals who are dissatisfied with the way expertise in the RD field is currently represented in Orphanet. To discuss this subject, we requested a meeting with our national health authorities (FPS Public Health), in the presence of a representative of the Ministry of Health.

During this online meeting held in December 2022, the Sciensano RD team proposed a new model based on the creation of a national designation committee and the use of questionnaires developed by Orphanet (adapted if necessary). The Orphanet Quality Criteria Questionnaires²¹ aim to assess the appropriateness of registering in Orphanet an expert centre that is not officially-designated. They are based on the EUCERD recommendations on quality criteria for expert centres for rare diseases.

Our proposal was built on:

- a "survey" (emails exchanges) conducted among our colleagues in the other countries of the Orphanet consortium to find out how RD expertise is designated in their own country;
- reading legislative documents (reference frameworks, national action plans, procedures, etc.) that are applicable in other countries;
- reports and exchanges with clinicians and patient organizations (mainly RaDiOrg, the umbrella organization for rare disease patients in Belgium).

This proposal was not retained, mainly for reasons related to the difficulty of implementing such a solution with regard to legal aspects: in Belgium, the distribution of responsibilities between the federal and regional levels has the consequence that the FPS Public Health is not empowered to define and use a list of criteria to attribute the "expert" label to a centre. Therefore for the moment, **the criteria related to the identification and registration of expert centres in Orphanet will not be reassessed.**

The work carried out with regard to new RD conventions established with the NIHDI and with the launch of the "Joint Action on the integration of ERNs into national healthcare systems" supported by the European Commission could help to better define where the optimal expertise can be found in our country. A mobilization of the national competent authorities, as well as regional health ministries, should be considered, with the support of experts in the field (clinicians, patients, etc.), to move forward on this complex issue. One option could be the creation of a national mirror group composed of all relevant stakeholders which is one of the activities that is proposed in the "European Rare Disease Partnership". The draft of the proposal for the Rare Disease Partnership is currently being written and should be submitted by September 2023.

7. Contribution to the OrphaNetWork News

OrphaNetWork News is an **internal newsletter published by Orphanet approximately every 3 months** (Figure 16). It aims to inform all partners on the conclusions of the Orphanet Management Board monitoring meetings. It also ensures circulation of information related to each team's activities and outputs in order to facilitate the acquisition of comprehensive knowledge by the network. This newsletter is sent within the Orphanet Network to Orphanet national teams. National Advisory Board members and scientific board members can also subscribe.

National teams are invited to submit relevant information to OrphaNetWork newsletter, to systematically read every issue and to carry out the action points posted in this document. **The Orphanet Belgium team published information on their activities in the 4 issues published during the year 2022** (communication about meetings, conferences, congresses, trainings, etc.).



Fig.16. Cover page of the November-December 2022 issue of the OrphaNetWork internal newsletter

8. Creation of documents to facilitate the registration of Belgian patient associations

An article²² (currently only available in French) describing the **registration procedure and the advantages for a patient association of being referenced in the Orphanet database** was written in June 2022 by the Orphanet Belgium Information Scientist at the request of RaDiOrg. The list of patient organisations registered in Orphanet at that time is provided. This document is available on the Orphanet Belgium website.

In addition, **guidelines in local languages (French, Dutch) for patient organizations registration** in Orphanet were created. This aims to help patients to use the Orphanet's online registration tool (only available in English) to submit a request for registration of their association.

SERVICE ACTIVITIES: ASSISTANCE TO PATIENTS AND PROFESSIONALS

The Orphanet Belgium team regularly receives questions about rare diseases via e-mail (orphanetbelgium@sciensano.be) or by phone calls from patients, researchers and healthcare professionals. The team provides answers to these questions whenever possible, for example by helping to find correct information on a pathology, by referring to an association of patients specific to the pathology (if it exists), by helping in the search for an optimal expertise, or by explaining why a disease cannot be found on the Orphanet portal (based on the definition of the inclusion criteria to be considered a rare disease). When necessary, we refer patients to the authorized persons as we as Orphanet team may not answer personal queries, whether medical or administrative.

Since RaDiOrg, the umbrella organisation for people living with a rare disease in Belgium, acts as "helpline for personal queries", its contact details are available on the Orphanet Belgium website, as well as on the Orphanet portal (Figure 17). In this context, RaDiOrg can connect people suffering from the same rare condition, give advice to create a patient association and offer visibility to a rare condition by posting a testimonial on their website.

For a personal query

Orphanet cannot answer personal queries. You should contact a dedicated service.

Country	Organisation	By email	By phone
Australia	The Association of Genetic Support of Australasia: <u>www.agsa-geneticsupport.org.au/</u>	info@aqsa-qeneticsupport.orq.a U	+61 2 9211 1462
Austria	Forum Seltene Krankheiten http://www.forum-sk.at/	info@forum-sk.at	+43 (0)512 9003 70532
Belgium	RaDiOrg is the umbrella organisation for patient organisations concerning rare diseases. https://www.radiorg.be/nl/contact/	<u>info@radiorqbe</u>	+32 (0)478 72 77 03
Bulgaria	ICRDOD (Information Center for Rare Diseases and Orphan Drugs): <u>www.raredis.org</u>	info@raredis.org	+359 (0)32 57 57 97

Fig.17. Screenshot of the Orphanet website: RaDiOrg is listed as the Belgian Helpline for personal queries

When questions related to **possible changes in the nomenclature and classification of rare diseases** (for example, a request to create a new entity not yet listed in Orphanet) are received, these are transferred to the members of the Orphanet-Inserm coordinating team in charge of these aspects. Prior scientific research work is required form the national team to support the request (identification and transmission of recent and relevant scientific publications concerning the disease). It should be noted that the time necessary to get a complete answer from Orphanet-Inserm is generally quite long (up to several months). This is explained by the fact that this task requires a thorough review of the recent literature and the consultation of external experts such as those who collaborate with the ERNs.

The frequency of questions coming from external users and the workload it entails are quite difficult to estimate because the frequency is quite random and while some requests require a short time to be resolved, others involve long-term follow-up and multiple stakeholders. A listing of each request is kept in our internal files.

Overview of what the Orphanet Belgium team can or cannot do to help you:

WHAT WE CAN DO

Provide expert-reviewed general information on a rare condition (based on the texts produced by Orphanet).

Identify the national and international centres recognized as experts for a given rare condition (centres registered in Orphanet, based on the inclusion criteria currently defined by the Orphanet Belgium MB).

Identify a patient association specific to a rare condition (if it exists) and referral to RaDiOrg, our collaborator as a helpline.

Identify a clinical trial, a research project, a registry, a medical laboratory offering a diagnostic test specific to a given rare condition (if any).

Create, remove or update data in Orphanet (subjected to final validation by the Orphanet-Inserm coordinating team).

Submit requests to add, remove or modify a rare clinical entity in the Orphanet nomenclature to the Orphanet-Inserm coordinating team.

For clinicians/coders: provide support and guidance to identify the most relevant ORPHAcode for a given RD diagnosis.

For clinicians/coders: provide (online or on-site) Orphanet nomenclature and classification trainings.

WHAT WE CANNOT DO

We can't answer personal queries (whether medical, legislative or administrative). In this case, a dedicated service should be contacted.

We cannot comment on the relevance of the medical advice you have received from your medical team.

We cannot give assistance for administrative procedures relating to a treatment trajectory or a request for reimbursement from a health insurance fund.

We cannot offer financial support, nor help to find medicines, medical equipment or any other material support.

CONCLUSION AND PERSPECTIVES

Since its creation in 1997, Orphanet has become a well-established and internationally recognized portal dedicated exclusively to rare diseases and orphan drugs. Orphanet is the reference source for the nomenclature and classification of rare diseases, both for healthcare and for research. Its freely-accessible website and associated tools contribute to help all audiences access high quality expert-reviewed information, to provide the means to identify and make rare disease patients visible in health and research information systems thanks to a time-stable and unique identifier (ORPHAcode), to guide patients and physicians towards relevant services for an efficient patient care pathway and to generate knowledge by producing massive, computable and reusable scientific data.

The Orphanet multi-stakeholder network, developed thanks to sustained European and national efforts, is **a good example of successful cross-European cooperation**. The consortium, which expanded gradually to about 40 countries within Europe and beyond, is coordinated by the Inserm in Paris. National teams are located in each participating country of the network and Belgium is part of it for more than 20 years. The sustainability of the Orphanet national teams in the long-term is essential to meet the challenges arising from a rapidly evolving political, scientific and informatics landscape.

In 2022, the Orphanet Belgium team carried out the fundamental database management tasks, which consist of recording new data and regularly updating existing data for all types of expert resources listed in Orphanet (expert centres, patient organisations, medical laboratories and diagnostic tests, clinical trials, research projects, registries and biobanks). The day-to-day management of the Orphanet database content is a **continuous task** based on regularly revised standard operating procedures, in order to provide all users with a reliable and up-to-date database on rare diseases.

A particular effort has been made in 2022 to **register expert centres that have joined a European Reference Network (ERN) following the second call launched by the EU**. These networks allow the generation and promotion of best practices for rare disease healthcare in Europe, providing data and resources that contribute to avoiding of duplicating efforts and making better use of available resources. Belgium now participates in all 24 existing ERNs and 100% of the Belgian centres that joined an ERN following the two calls for membership are registered in Orphanet. For some of the ERNcentres registered since 2019, a data update has already been necessary in 2022.

In 2023, we plan to devote time to the adaptations that will be necessary following the adoption of a new model for recording diagnostic tests in Orphanet. Training to learn how to use the Polaris platform will also be required. This new tool for registration, curation and analysis of research projects will be available for the funders, for the members of IRDiRC and for the Orphanet network members. It should facilitate the identification of projects not yet registered in the Orphanet database as well as the analysis of our research national data, for example in terms of disease coverage.

In addition, we will continue to **carry out our service activities**, such as providing assistance and information to people living with a rare disease or health professionals who contact us regularly via email or phone. We will also **participate in national awareness-raising activities** concerning rare diseases in general but also related to the Orphanet database and associated tools.

The Orphanet Belgium team will **continue to actively participate in the European project OD4RD** ("Orphanet Data for Rare Diseases") whose main objective is to contribute to the generation of accurate and standardized data related to rare diseases through the implementation and maintenance of ORPHAcodes in the routine coding information systems of national healthcare providers. This project involves the delivery of trainings in the two national languages (or in English depending on demand), online or on site, to people involved in the field of rare diseases in a clinical context (clinicians, coders, people in charge of registries, IT managers, etc.). This also includes the promotion of ORPHAcodes to key players in the field of rare diseases (national health authorities, hospital managers, experts, etc.).

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1. Belgian centres participating in ERNs for rare or complex diseases (as recorded in Orphanet in December 2022)

NAME OF THE EUROPEAN REFERENCE NETWORK (ERN)	NAME OF THE BELGIAN HOSPITAL	DATE OF APPROVAL	PARTICULAR AREA OF EXPERTISE OF THE CENTRE WITHIN THE ERN
	Cliniques universitaires Saint-Luc (UCLouvain)	CALL 1 (2017)	ORPHA:68419 Vascular anomaly or angioma
VASCern	Ghent University Hospital (UZ Gent)	CALL 1 (2017)	ORPHA:285014 Rare disease with thoracic aortic aneurysm and aortic dissection ORPHA:881 Turner syndrome
(Rare Multisystemic Vascular Diseases)	AZ Sint-Maarten (Mechelen)	CALL 1 (2017)	ORPHA:77240 Primary lymphedema
	Antwerp University Hospital (UZ Antwerpen)	CALL 1 (2017)	ORPHA:285014 Rare disease with thoracic aortic aneurysm and aortic dissection
	Leuven University Hospital (UZ Leuven)	CALL 1 (2017)	ORPHA:77240 Primary lymphedema
	University Hospital Erasme (ULB) / Höpital Universitaire des Enfants Reine Fabiola (HUDERF)	CALL 1 (2017)	ORPHA:30771 Disorder of sex development ORPHA:101954 Rare adrenal disease ORPHA:113184 Rare adrenal disease ORPHA:843154 Rare parathyroid disease and phosphocalcic metabolism anomaly ORPHA:643155 Rare thyroid disease ORPHA:701826 Genetic obesity ORPHA:90592 Rare endocrine growth disease
	Cliniques universitaires Saint-Luc (UCLouvain)	CALL 1 (2017)	ORPHA-30771 Disorder of sex development ORPHA-7828 Genetic obesity ORPHA-7828 Genetic obesity ORPHA-17828 Genetic obesity ORPHA-101956 Polyendocrinopathy ORPHA-101956 Polyendocrinopathy ORPHA-101957 Rare diabetes mellitus ORPHA-181441 Rare disorder with hypergonadotropic hypogonadism ORPHA-181441 Rare disorder with hypergonadotropic hypogonadism ORPHA-181384 Rare hypothalamic or pituitary disease ORPHA-168415 Rare parthyroid disease and phosphocalcic metabolism anomaly ORPHA-168456 Rare thypothalamic or pituitary disease
Endo-ERN	University Hospital Brussels (UZ Brussel)	CALL 1 (2017)	
(Rare Endocrine Conditions)	Ghent University Hospital (UZ Gent)	CALL 1 (2017)	ORPHA-30771 Disorder of sex development ORPHA-325600 Genetic disorder of sex development ORPHA-68415 Rare parathyroid disease and phosphocalcic metabolism anomaly
	Leuven University Hospital (UZ Leuven)	CALL 1 (2017)	ORPHA-538 Congenital generalized lipodystrophy ORPHA-5380 Cenetic lipodystrophy ORPHA-5521 MODY ORPHA-2525 Maternally-inherited diabetes and deafness ORPHA-90159 Pannicultis-induced localized lipodystrophy ORPHA-300382 Progeroid and marfanoid aspect-lipodystrophy syndrome ORPHA-16307 Wolcott-Raillion syndrome
	Liège University Hospital (Centre Hospitalier Universitaire de Liège)	CALL 1 (2017)	OPPHA-174590 Congenital hypogonadotropic hypogonadism OPPHA-755 Legidig cell hypogolasia OPPHA-7576161 Multiple endocrine neoplasia OPPHA-394080 Pitutfary adenoma OPPHA-300373 K-Iniked acroggantism
	Antwerp University Hospital (UZ Antwerpen)	CALL 2 (2021)	ORPHA-95502 Acquired pituitary hormone deficiency ORPHA-100091 Adrens/paragnagialia tumor ORPHA-1100094 Multiple polygiandular tumor ORPHA-110389 Pimary adrenal instificiency ORPHA:68415 Rare parathyroid disease and phosphocalcic metabolism anomaly
	Antwerp University Hospital (UZ Antwerpen)	CALL 1 (2017)	ORPHA:50251 Pleural mesothelioma ORPHA:3398 Thymic epithelial neoplasm
ERN-LUNG	Leuven University Hospital (UZ Leuven)	CALL 1 (2017)	ORPHA-586 Cystic fibrois ORPHA:1303 Bronchioitis obliterans with obstructive pulmonary disease ORPHA:112095 Interstitual lung disease ORPHA:1164 Allergic bronchopulmonary aspergillosis ORPHA:50033 dilogathic bronchictasis ORPHA:244 Primary ciliary dyskinesia ORPHA:244 Primary ciliary dyskinesia
(Rare respiratory Diseases)	University Hospital Erasme (ULB)	CALL 1 (2017)	ORPHA:182095 Intersitial lung disease ORPHA:1154 Allergic bronchopulmonary aspergillosis ORPHA:60033 kilopathic bronchiectasis ORPHA:71198 Rare pulmonary hypertension
	Cliniques universitaires Saint-Luc (UCLouvain)	CALL 2 (2021)	ORPHA:586 Cystic fibrosis ORPHA:182095 Interstitial lung disease
	University Hospital Brussels (UZ Brussel)	CALL 2 (2021)	ORPHA:102095 Interstitial lung disease ORPHA:586 Cystic fibrosis
	Ghent University Hospital (UZ Gent)	CALL 2 (2021)	ORPHA:586 Cystic fibrosis
EuroBloodNet	University Hospital Erasme (ULB)	CALL 1 (2017)	ORPHA:S20251 Pleural mesothelioma ORPHA:S20251 Pleural mesothelioma ORPHA:S486 Alpha-thalassemia ORPHA:S486 Beta-thalassemia ORPHA:S46026 Class I glucose-5-phosphate dehydrogenase deficiency ORPHA:S46026 ORPHA:S202 Hermolytic anemia due to entry to entry the optimate of the optimate optima
(Rare Hematological Diseases)	Jules Bordet Institute	CALL 1 (2017)	ORPHA:171898 Lymphoid hemopathy ORPHA:248315 Bare hemorrhavic disorder due to a coasulation factors defect
	Leuven University Hospital (UZ Leuven)	CALL 1 (2017)	ORPHA:248315 Rare hemorrhagic disorder due to a coagulation factors defect ORPHA:248326 Rare hemorrhagic disorder due to a platelet anomaly ORPHA:648364 Hemoglobinopathy
		CALL 1 (2017)	ORPHA:171895 Myeloid hemopathy ORPHA:220489 Rare hereditary hemochromatosis
	(Centre Hospitalier Universitaire de Liège)		
	(Centre Hospitalier Universitaire de Liège) Cliniques universitaires Saint-Luc (UCLouvain)	CALL 1 (2017)	ORPHA:248315 Rare hemorrhagic disorder due to a coagulation factors defect
	· · ·	CALL 1 (2017) CALL 2 (2021)	ORPHA:248315 Rare hemorrhagic disorder due to a coagulation factors defect ORPHA:68364 Hemoglobioinopathy ORPHA:68334 Area hemorrhagic disorder due to a constitutional coagulation factors defect
	Cliniques universitaires Saint-Luc (UCLouvain)		ORPHA:248315 Rare hemorrhagic disorder due to a coagulation factors defect ORPHA:68364 Hemoglobinopathy
EURO-NMD	Cliniques universitaires Saint-Luc (UCLouvain) Antwerp University Hospital (UZ Antwerpen)	CALL 2 (2021)	ORPHA:248315 Rare hemorrhagic disorder due to a coagulation factors defect ORPHA:83864 Hemoglobioinopathy ORPHA:68334 Area hemorrhagic disorder due to a constitutional coagulation factors defect ORPHA:71202 Rare hemorrhagic disorder due to a constitutional platelet anomaly
EURO-NMD (Rare Neuromuscular Diseases)	Cliniques universitaires Saint-Luc (UCLouvain) Antwerp University Hospital (UZ Antwerpen) University Hospital Erasme (ULB)	CALL 2 (2021) CALL 1 (2017)	ORPHA:248315 Rare hemorrhagic disorder due to a coagulation factors defect ORPHA:68364 Hemoglobionpathy ORPHA:68334 Pare hemorrhagic disorder due to a constitutional coagulation factors defect ORPHA:71202 Rare hemorrhagic disorder due to a constitutional platelet anomaly ORPHA:68381 Neuromuscular disease

NAME OF THE EUROPEAN REFERENCE NETWORK (ERN)	NAME OF THE BELGIAN HOSPITAL	DATE OF APPROVAL	PARTICULAR AREA OF EXPERTISE OF THE CENTRE WITHIN THE ERN
	Antwerp University Hospital (UZ Antwerpen)	CALL 1 (2017)	ORPHA-040448 ADNP syndrome ORPHA-07705C COLA10 or COLA02-related cerebral small vessel disease with hemorrhagic tendancy ORPHA-1456S Coffin-Siris syndrome ORPHA-5038 Fragile X syndrome ORPHA-5038 Neurometabolic disease
ITHACA (Rare Malformation Syndromes, Intellectual and Other Neurodevelopmental Disorders)	University Hospital Erasme (ULB) Leuven University Hospital (UZ Leuven)	CALL 1 (2017)	ORPHA.39800 Rare developmental defect during embryogenesis ORPHA.39800 Central nervous system malformation ORPHA.39907 Lentral nervous system malformation ORPHA.39071 Disorder of sex development ORPHA.18375 Genetic congenital limb malformation ORPHA.18375 Genetic congenital limb malformation ORPHA.18375 Genetic congenital anomalies/dysmorphic syndrome ORPHA.13337 Genetic textbal multiple congenital anomalies/dysmorphic syndrome ORPHA.330206 Genetic multiple congenital anomalies/dysmorphic syndrome withhout intellectual disability ORPHA.330205 Genetic congenital anomalies/dysmorphic syndrome withhout intellectual disability ORPHA.330205 Genetic multiple congenital anomalies/dysmorphic syndrome withhout intellectual disability ORPHA.330205 Genetic multiple congenital anomalies/dysmorphic syndrome-intellectual disability ORPHA.330205 Genetic multiple congenital anomalies/dysmorphic syndrome-intellectual disability ORPHA.330205 Rare bone development disorder ORPHA.330205 Syndromic ORPHA.330205 Syndromic component disorder ORPHA.33023 Syndromic Zames ORPHA.33023 Syndromic Zames </td
	Cliniques universitaires Saint-Luc (UCLouvain) and institut de Pathologie et Génétique (IPG), Gosselies	CALL 2 (2021)	ORPHA-557 220112 deletion syndrome ORPHA-587 220000 syndrome ORPHA-587 200000 syndrome ORPHA-58321 Multiple congenital anomalies/dysmorphic syndrome ORPHA-102283 Multiple congenital anomalies/dysmorphic syndrome-intellectual disability ORPHA-232084 Non-specific syndromic intellectual disability ORPHA-232084 Res syndromic intellectual disability ORPHA-2102180 Res syndromic intellectual disability ORPHA-2102180 Res syndromic intellectual disability ORPHA-2102180 Res syndromic intellectual disability ORPHA-2102100 Res syndromic intellectual disability ORPHA-28210 Res syndromic intellectual disability ORPHA-28210 Res syndromic intellectual disability ORPHA-28210 Res syndromic intellectual disability
	Ghent University Hospital (UZ Gent)	CALL 2 (2021)	ORPHA:68341. Multiple congenital anomalies/dysmorphic syndrome ORPHA:102238 Multiple congenital anomalies/dysmorphic syndrome- ORPHA:102238 Multiple congenital anomalies/dysmorphic syndrome-intellectual disability ORPHA:103893 Mon-syndromic tentral nervous system malformation ORPHA:68335 Rare chromosomal anomaly ORPHA:08335 Rare chromosomal anomaly ORPHA:102369 Rare syndromic intellectual disability ORPHA:102369 Rare syndromic intellectual disability ORPHA:2036 Rare syndromic intellectual disability
	Ghent University Hospital (UZ Gent)	CALL 1 (2017)	ORPHA.209 Cutis laxa ORPHA:98249 Ehlers-Danlos syndrome ORPHA:758 Peudoxanthoma elasticum
	University Hospital Erasme (ULB)	CALL 1 (2017)	ORPHA:50126 PAPA syndrome ORPHA:52126 PAPA syndrome ORPHA:641385 PASS syndrome ORPHA:641385 PASS syndrome ORPHA:641385 PASS syndrome ORPHA:641380 PAPASH syndrome ORPHA:641390 PAPASH syndrome
ERN-Skin (Rare and Undiagnosed Skin Disorders)	Leuven University Hospital (UZ Leuven)	CALL 1 (2017)	ORPHA-522 Large congenital melanocytic nevus ORPHA-522 Large congenital melanocytic nevus ORPHA-5136 Cuts marmorat tetangetatica congenita ORPHA-5136 Cuts marmorat tetangetatica congenita ORPHA-5145 Nuccordaneous venous malformations ORPHA-2431 Nuccordaneous venous malformations ORPHA-2432 Nuccordaneous venous malformations ORPHA-2531 Stuge-Vvbeer syndrome ORPHA-2531S Epidermal nevus syndrome ORPHA-2531S Epidermal nevus syndrome ORPHA-53125 Epidermal nevus syndrome ORPHA-53125 Epidermal nevus syndrome ORPHA-53125 Inderts of the stude of the stu
ERN-RND (Rare Neurological Diseases)	Leuven University Hospital (UZ Leuven)	CALL 1 (2017)	ORPHA-98335 Frontotemporal degeneration with dementia ORPHA-98332 Firontotemporal degeneration with dementia ORPHA-98320 Firmary progressive aphasia ORPHA-10302 Are etaxaa ORPHA-10302 Are etaxaa ORPHA-1020 Arubite system atrophy ORPHA-1038 Progressive supranuclear palsy ORPHA-10483 Progressive supranuclear palsy ORPHA-2838 Progressive supranuclear palsy
	University Hospital Erasme (ULB) Ghent University Hospital (UZ Gent)	CALL 1 (2017)	ORPHA:18351B Hereditary ataxia ORPHA:685 Hereditary spastic paraplegia ORPHA:98355 Frontotemporal degeneration with dementia
	Antwerp University Hospital (UZ Antwerpen)	CALL 2 (2021)	ORPHA:95535 Frontotemporal degeneration with dementia ORPHA:95535 Frontotemporal degeneration with dementia ORPHA:102 Multiple system atrophy
	Jules Bordet Institute	CALL 1 (2017)	ORPHA:S8402 Rare parkinsonian disorder ORPHA:10003 Inderna/paragrappiliai tumor ORPHA:232727 Bone sarcona ORPHA:232727 Bone sarcona ORPHA:30251 Pierual mesothelioma ORPHA:130057 Rare thyroid tumor ORPHA:39366 Thyrmic actiona ORPHA:39866 Thyrmic actiona
	Leuven University Hospital (UZ Leuven)	CALL 1 (2017)	ORPHA.2237727 Bone sarcoma ORPHA.3340 ACT tissue sarcoma ORPHA.3340 ACT tissue sarcoma ORPHA.3304055 Pituitary tumor ORPHA.424010 Epitheliat umor of anal canal ORPHA.240010 Pitmary nalignant peritoneal tumor ORPHA.158079 Pitmary nalignant peritoneal tumor ORPHA.158079 Categories and the organization of organization of the organization of organizati
EURACAN (Rare Adult Cancers (solid tumors)	Liège University Hospital (Centre Hospitalier Universitaire de Liège)	CALL 1 (2017)	ORPHA:254685 Getational trophoblastic disease ORPHA:144 Lynch syndrome ORPHA:180220 Rare uterine adnesal tumor ORPHA:213564 Rare uterine cancer ORPHA:213564 Rare uterine cancer
	Cliniques universitaires Saint-Luc (UCLouvain)	CALL 2 (2021)	ORPHA-223727 Bone sarcoma ORPHA-223727 Bone sarcoma ORPHA-2372 Bone sarcoma ORPHA-2172842 Inflammatory myofibroblastic tumor ORPHA-2173642 Lupoblastoma ORPHA-237364 Upoblastoma ORPHA-237364 Upoblastoma ORPHA-233064 Overlin exacter ORPHA-248305 Overlin exacter ORPHA-248305 Overlin exacter ORPHA-248305 Overlin exacter ORPHA-248305 Provinter of the overline of the overline overline overline overline ORPHA-235054 Upoblastoma ORPHA-235054 Diverline overline ORPHA-235054 Overline exacter ORPHA-248305 Provinter overline ORPHA-251934 Mixed energentHelial tumor ORPHA-251934 Mixed energentHelial tumor ORPHA-251934 Mixed energentHelial tumor ORPHA-251935 Provintery tumor ORPHA-251954 Provintery tumor ORPHA-251954 Provintery tumor ORPHA-251954 Provintery tumor
	Ghent University Hospital (UZ Gent)	CALL 2 (2021)	ORPHA:113 Back OutpreChristory Syndrome ORPHA:223727 Bone sarcoma ORPHA:23324 ORPHA:23924 ORPHA:23924 ORPHA:239240 ORPHA:239240 ORPHA:239240 ORPHA:239240 ORPHA:243240 ORPHA:243240 ORPHA:243240 ORPHA:243240 ORPHA:243240 ORPHA:243240 ORPHA:24340 ORPHA:24340 ORPHA:24340 ORPHA:2440 ORPHA:
	Antwerp University Hospital (UZ Antwerpen)	CALL 2 (2021)	ORPHA.377 Neuroendocrine neoplasm ORPHA.30251 Plerarla mesothelioma ORPHA.33328 Thymic epithelial neoplasm

Preder Care description Image: Care description of the care de	NAME OF THE EUROPEAN REFERENCE NETWORK (ERN)	NAME OF THE BELGIAN HOSPITAL	DATE OF APPROVAL	
Las la		Centre linked to 97 ORPHAcodes (disorder(s)groups of disorders). For a full overview, please	CALL 1 (2017)	0RPHA.1501 Adrencortical arcinoma 0RPHA.5501 Adrencortical arcinoma 0RPHA.25161 Autoimmune lymphopoilferative syndrome 0RPHA.25161 Benigs schwanoma 0RPHA.1251 Biom syndrome 0RPHA.2157 Bone sarcoma 0RPHA.243936 Carcinoma of liver and intaepatic bilary tract 0RPHA.243936 Carcinoma 0RPHA.243937 Conderoit and Bioma 0RPHA.243937 Composite hemangioendothelioma 0RPHA.245375 Congenital menangioendothelioma 0RPHA.254375 Congenital menangioma 0RPHA.254375 Canopital hemangioma 0RPHA.254375 Canopital hemangioma 0RPHA.254371 Charlos (Santoma Charlos (Santoma 0RPHA.254375 Canopital hemangioma 0RPHA.254375 Canopital hemangi
Risk Book Control (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)		Centre linked to 32 ORPHAcodes (disorder(s)groups of disorders). For a full overview, please	CALL 1 (2017)	ORPHA.1501 Adrencortical acrinoma ORPHA.5101 Adrencortical acrinoma ORPHA.521277 Complex vascular malformation with associated anomalies ORPHA.521327 Complex vascular malformation with associated anomalies ORPHA.521532 Composite lumona gioendotheliona ORPHA.2565 Congenital mesoblastic nephroma ORPHA.521532 Embryonal tumor of neuroepithelial tissue ORPHA.513701 Epitheliotal hemangioendotheliona ORPHA.513007 Gilai tumor ORPHA.513007 Gilai tumor ORPHA.513007 Gilai tumor ORPHA.513005 Kaposiform Ymphangiomatosis ORPHA.5330 Bagerhans call histiceycosis ORPHA.5331 Bagerhans call histiceycosis ORPHA.5331 Bagerhans call histiceycosis ORPHA.534120 Kaposiform Ymphangiomatosis ORPHA.53512 Myelodyplastic/myelogroliferative disease ORPHA.54512 Myelodyplastic/myelogroliferative disease ORPHA.5656 Osteosarcoma ORPHA.65672 Pleuropulatic/myelogroliferative disease ORPHA.5472 Pleuropulatic/myelogroliferative disease ORPHA.5472 Pleuropulaticoma ORPHA.54720 Rare tumor ORPHA.54720 Rare tumor of sallavarg glands ORPHA.257642 Rare tumor of sallavarg glands
ERNE DOND (Bare blow blooders) Cleart University Hospital (U2 Gent) Cul. 1 (2017) Control State State Cleart State Sta		Leuven University Hospital (UZ Leuven)	CALL 1 (2017)	ORPHA:319 Sketesl Exking sarcoma ORPHA:319 Actempcold leukemia ORPHA:1501 Adrencortical carcinoma ORPHA:5580 Chandrosarcoma ORPHA:5580 Chandrosarcoma ORPHA:5580 Chandrosarcoma ORPHA:5580 Chandrosarcoma ORPHA:55495 Cranicpharyngioma ORPHA:53280 Germ cell tumor ORPHA:4319 Agerma cell tumor ORPHA:4319 Regerhans cell histiccytosis ORPHA:25283 Myelodyplastic syndrome ORPHA:25284 Myelodyplastic syndrome ORPHA:55285 Myelodyplastic syndrome ORPHA:55285 Myelodyplastic syndrome ORPHA:55285 Myelodyplastic syndrome ORPHA:55287 Myelodyplastic syndrome ORPHA:554 Nephrobistoma ORPHA:554 Nephrobistoma ORPHA:554 Nephrobistoma ORPHA:55105 Pineatimeterilia tumor ORPHA:55105 Pineatimeterilia tumor ORPHA:55105 Pineatimeterilia tumor ORPHA:55105 Pineatimeterilia tumor ORPHA:55105 Pineatimumori ORPHA:5
ERN-BOND (Rare Bons Disorders) Antwerp University Hospital (UZ Antwerpen) OPPHA-15.4 Antomorphasia OPPHA-28 Hypochondroplasia OPPHA-28 Hypochondroplasia OPPHA-28 Hypochondroplasia OPPHA-28 Hypochondroplasia OPPHA-28 Hypochondroplasia OPPHA-28 Hypochondroplasia OPPHA-28 Ontogenesis OPPHA-28 Hypochondroplasia OPPHA-28 Ontogenesis OPPHA-28 Hypochondroplasia OPPHA-28 Ontogenesis OPPHA-28 Hypochondroplasia OPPHA-28 Hypochondroplasia OPPHA-28 Hypochondroplasia OPPHA-28 Ontogenesis OPPHA-28 Hypochondroplasia OPPHA-28 Hypochondroplas OPPHA-28 Hypochondroplas OPPHA-28 Hypochondroplas OPP				ORPHA.253727 Bone sarcoma ORPHA.25372 Craippharyngiona ORPHA.2618 Familial melanoma ORPHA.2618 Familial melanoma ORPHA.2618 Familial melanoma ORPHA.2618 Prestobiastoma ORPHA.2618 Prestobiastoma ORPHA.2618 Stymphoma ORPHA.2618 Stymphoma ORPHA.2618 Prestover Stymphoma ORPHA.2618 Prestover Stymphoma ORPHA.2618 Prestover Stymphoma ORPHA.251905 Primary central nervous system ORPHA.251905 Rare tumor of neuroepithelial tisse ORPHA.252005 Tumor of neuroepithelial tisse ORPHA.252005 Tumor of meninges
Like University Hospital (Centre Hospitale University Hospital) (Centre Hospitale University Hospital) (Centre Hospitale University Hospital (UZ Gent) CALL 1 (2017) OPPHA.68367 Rare Inborn errors of metabolism MotabERN (Rare Hereditary Metabolic Disorders) Ghent University Hospital (UZ Gent) CALL 1 (2017) OPPHA.68367 Rare Inborn errors of metabolism Antwerp University Hospital (UZ Gent) CALL 1 (2017) OPPHA.252 Harbi disease OPPHA.252 Hereditary Menochromatosis OPPHA.250 Hereditary Menochromatosi				ORPHA.15 Achondropiasia ORPHA.15 Achondropiasia ORPHA.128 Cumurali-Engelmann disease ORPHA.429 Hypochondropiasia ORPHA.420 Lidr-Welli dyschondrosteosis ORPHA.240 Lidr-Welli dyschondrosteosis ORPHA.240 Lidr-Welli dyschondrosteosis ORPHA.240 Lidr-Welli dyschondrosteosis ORPHA.2518 Octopednesis imperfecta ORPHA.2518 Octopednesis imperfecta ORPHA.2781 Octopednesis imperfecta ORPHA.2781 Octopednesis and related disorders ORPHA.2781 Octopednesis and related disorders ORPHA.2494065 Spondyloentaphyseal dysplasia congenita ORPHA.2540 Octopednesis dysplasia congenita
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GUARD-HEART Gateway to Uncommon And Rare Diseases of the HEART Levven University Hospital (UZ Brussel) Levven University Hospital (UZ Levven) Levven University Hospital (UZ Levven) CALL (2017) CALL		Ghent University Hospital (UZ Gent) Antwerp University Hospital (UZ Antwerpen) Leuven University Hospital (UZ Leuven)	CALL 1 (2017) CALL 1 (2017) CALL 1 (2017)	ORPHA.232 Fabry disease ORPHA.253 Caucher disease ORPHA.2576 Hereditary chronic pancreatitis ORPHA.2676 Hereditary chronic pancreatitis ORPHA.2039 Rare hereditary hemochromatosis ORPHA.2039 Nate hereditary hemochromatosis ORPHA.2637 Pare inborn errors of metabolism ORPHA.2637 Rare inborn errors of metabolism
GUARD-HEART (Gateway to Uncommon And Rare Diseases of the HEART) Levven University Hospital (UZ Levven) Levven University Hospital (UZ Levven) Levven University Hospital (UZ Levven) CALL 1 (207) ORPHA-21763 Rark (Dartod park hypertophic cardiouxposithy ORPHA-21764 Rark (Rark Hypertophic cardiouxposithy ORPHA-21764 Rark (Rark Hypertophic) ORPHA-21764 Rark (Rark Hyperto			CALL 1 (2017)	ORPHA:247 Arrhythmogenic right ventricular cardiomyopathy
	(Gateway to Uncommon And Rare Diseases			ORPHA.2326 Catecholaminergic polymorphic ventricular tachycardia ORPHA.21260 Dilated cardiomyopathy ORPHA.2768 Familial long QT syndrome ORPHA.21763 Rathypetrophic cardiomyopathy ORPHA.217632 Restrictive cardiomyopathy ORPHA.217678 Unclassified cardiomyopathy ORPHA.217678 Unclassified cardiomyopathy
ORTINE 21/2446 Rate cardio myopathy ORTINE 21/2446 Rate cardio myopathy ORTINE 21/2446 Rate cardio cryptim disease		Leuven University Hospital (UZ Leuven)	CALL 1 (2017)	ORPHA:167848 Rare cardiomyopathy

NAME OF THE EUROPEAN REFERENCE NETWORK (ERN)	NAME OF THE BELGIAN HOSPITAL	DATE OF APPROVAL	PARTICULAR AREA OF EXPERTISE OF THE CENTRE WITHIN THE ERN
	Ghent University Hospital (UZ Gent) Antwerp University Hospital (UZ Antwerpen)	CALL 1 (2017) CALL 2 (2021)	ORPHA-513315 Rare retinal disorder ORPHA-98634 Anterior segment developmental anomaly without extraocular manifestations ORPHA-98639 Rare lens disease
ERN-EYE (Rare Eye Diseases)	Leuven University Hospital (UZ Leuven)	CALL 2 (2021)	ORPHA-130653 Neuro-ophthalmological disease ORPHA-519262 Rare conneal disorder ORPHA-520814 Rare disorder of the visual organs ORPHA-386318 Rare fends disease ORPHA-386318 Rare refraction anomaly ORPHA-386318 Rare refraction anomaly
eUROGEN (Rare urogenital diseases and complex conditions)	Liège University Hospital (Centre Hospitalier Universitaire de Liège)	CALL 1 (2017)	ORPHA:3202 Caudia regression syndrome ORPHA:232 Destrophy-epispadias complex ORPHA:232 Destrophy-epispadias complex ORPHA:232 Destrophy-epispadias complex ORPHA:23505 Fenilal vescioureteral reflux ORPHA:23505 Fenilal vescioureteral reflux ORPHA:23505 Feli lower urbrit al sphiniter de systumction syndrome ORPHA:23505 Generatory ORPHA:23505 Homman syndrome ORPHA:23505 Homman syndrome ORPHA:23505 Homman syndrome ORPHA:23504 Non-Syndromic and corectal malformation with perineal fistula ORPHA:25025 Non-Syndromic anorectal malformation with rectourethral fistula ORPHA:500254 Non-Syndromic anorectal malformation with rectouresial fistula ORPHA:500254 Non-Syndromic posterior hypospadias ORPHA:25705 Non-Syndromic anorecredial malformation with rectouresial fistula
	Ghent University Hospital (UZ Gent)	CALL 1 (2017)	ORPHA-2795 Fowler urethral sphincter dryfunction syndrome ORPHA-38063 Malignant tumor of penis ORPHA-5634 Nephrobiatoma ORPHA-5634 Tare disorder potentially indicated for kidney transplant ORPHA-539545 Renail or urinary tract malformation ORPHA-339545 Turgenital tract malformation
	Leuven University Hospital (UZ Leuven)	CALL 1 (2017)	ORPHA:101433 Rare urogenital disease ORPHA:182114 Rare urogenital tumor
	Antwerp University Hospital (UZ Antwerpen)	CALL 2 (2021)	ORPHA-37202 Interstitial cystitis ORPHA-557 Non-syndromic anorectal malformation ORPHA-155700 Anon-syndromic urogenital tract malformation ORPHA-363472 Tumor of testis and paratestis
ERN GENTURIS (GENetic TUmour Risk Syndromes)	Ghent University Hospital (UZ Gent)	CALL 1 (2017)	ORPH-12.100 Attain-telangicctasia ORPH-12.2066 Attenuated familial adenomatous polyposis ORPH-12.2066 Attenuated familial adenomatous polyposis ORPH-12.2066 Attenuated familial adenomatous polyposis ORPH-12.216 Bin-140ge Dubé syndrome ORPH-12.216 Bin-140ge Dubé syndrome ORPH-12.216 Constitutional mismatch repair deficiency syndrome ORPH-12.3120 Conden syndrome ORPH-12.3120 Fuellary breast and/or ovarian cancer syndrome ORPH-12.3120 Fuellary breast and/or ovarian cancer syndrome ORPH-12.3120 Fuellary breast and/or ovarian cancer ORPH-12.3120 Fuellary breast and/or ovarian cancer ORPH-12.3120 Fuellary breast syndrome ORPH-12.3201 Fuereditary polypois syndrome ORPH-12.3202 Fuereditary polypois syndrome ORPH-12.3201 Fuereditary polypois syndrome <t< td=""></t<>
	Leuven University Hospital (UZ Leuven)	CALL 1 (2017)	ORPHA.892 Von Hippel-Lindau disease ORPHA:140162 Inherited cancer-predisposing syndrome ORPHA:2678 Pamilia isolated café-au-lait macules ORPHA:2678 Pamilia isolated café-au-lait macules
	Liège University Hospital (Centre Hospitalier Universitaire de Liège)	CALL 1 (2017)	ORPHA-637 Full NF2-related schwannomatosis ORPHA-93921 Full schwannomatosis ORPHA-1345 Hereditary breast and/or ovarian cancer syndrome ORPHA-137605 Leguis syndrome ORPHA-6358 Neurofibromatosis hype 1 ORPHA-6358 Neurofibromatosis honan syndrome
	University Hospital Brussels (UZ Brussel) Cliniques universitaires Saint-Luc (UCLouvain)	CALL 1 (2017)	ORPHA.135 Hereditary breast and/or ovarian cancer syndrome ORPHA.230071 ADSIIN ORPHA.249345 Billary atresia and associated disorders ORPHA.23051 COBJEstord-start ransfer protein deficiency ORPHA.231051 Disorder of urea cycle metabolism and ammonia detoxification ORPHA.231051 Disorder of urea cycle metabolism and ammonia detoxification ORPHA.231051 Disorder of urea cycle metabolism and ammonia detoxification ORPHA.231051 Disorder of urea cycle metabolism and ammonia detoxification ORPHA.231051 Disorder of urea cycle metabolism and ammonia detoxification ORPHA.231051 Disorder of urea cycle metabolism and ammonia detoxification ORPHA.231051 Disorder of urea cycle metabolism and ammonia detoxification ORPHA.231051 Disorder of
RARE-LIVER (Rare Hepatological Diseases)	Leuven University Hospital (UZ Leuven)	CALL 1 (2017)	ORPHA:50 Alpha-1-antityppin deficiency ORPHA:2157 Autionmune hepatitis ORPHA:2157 Autionmune hepatitis ORPHA:20567 Cholengiolacrainoma ORPHA:282632 (Bid-Felated Giseare ORPHA:282632 (Bid-Felated Giseare ORPHA:23051 Isolated biling a treeia ORPHA:232632 (Bid-Felated Giseare ORPHA:2385 Primary biling v cholangtis ORPHA:2158 Primary Suffexing Cholangtis ORPHA:2101938 Rare vascular liver disease ORPHA:201930 Giseare
	Ghent University Hospital (UZ Gent)	CALL 1 (2017)	ORPH.4035 Wilson disesse ORPH.403 OK Jison disesse ORPH.403 OK Jison disesse ORPH.403 OK Jison OK Jison ORPH.4038345 Temilal Intrahepatic disorders ORPH.4738345 Temilal Intrahepatic cholestasis ORPH.4738456 Temilal Intrahepatic cholestasis ORPH.4738456 Temilal Intrahepatic disesse ORPH.4738457 Temilal Intrahepatic disesse ORPH.4738457 Temilal Intrahepatic disesse ORPH.4738458 Temilal Intrahepatic disesse ORPH.47385 Temilal Intrahepatic disesse ORPH.47385 Temilal Intrahepatic disesse ORPH.473858 Temilal Intrahepatic disesse ORPH.473858 Temilal Intrahepatic disesse ORPH.473858 Temilal Intrahepatic disesse ORPH.4738458 Temilal Intrahepatic disesse ORPH.473858 Temilal Intrahepatic disesse ORPH.474858 Temilal Intrahepatic disesse ORPH.474858 Temilal Intrhahpatic
	Antwerp University Hospital (UZ Antwerpen)	CALL 2 (2021)	ORPHA-50 Alpha-1-antitrypsin deficiency ORPHA-250 Alpha-1-antitrypsin deficiency ORPHA-2137 Autoimmune hepatitis ORPHA-28435 familial intrahepatic cholestais ORPHA-28435 familial intrahepatic cholestais ORPHA-247764 IgG4-related scienceing cholangitis ORPHA-247764 IgG4-related scienceing cholangitis ORPHA-25235 Solated polycytic liver disease ORPHA-25235 Primary bilary cholangitis (primary scienceing cholangitis and autoimmune hepatitis overlap syndrome ORPHA-25231 Solated polycytic liver disease ORPHA-242423 In the bilary tract disease ORPHA-2101 In the bilary tract disease ORPHA-21031 In the bilary tract disease ORPHA-21031 In the bilary tract disease ORPHA-210340 In the bilary tract disease

NAME OF THE EUROPEAN REFERENCE NETWORK (ERN)	NAME OF THE BELGIAN HOSPITAL	DATE OF APPROVAL	PARTICULAR AREA OF EXPERTISE OF THE CENTRE WITHIN THE ERN
	Cliniques universitaires Saint-Luc (UCLouvain)	CALL 1 (2017)	ORPHA-98482 (diopathic inflammatory myopathy ORPHA:9021 Systemic sclerosis ORPHA:536 Systemic lupus erythematosus
ReCONNET (Rare Connective Tissue and Musculoskeletal Diseases)	Ghent University Hospital (UZ Gent)	CALL 1 (2017)	ORPHA-98249 Ehlers-Danios syndrome ORPHA-98822 (liagothic inflammatory myopathy ORPHA:90291 Systemic sclerosis
	Leuven University Hospital (UZ Leuven)	CALL 2 (2021)	ORPHA-939482 Idiopathic Inflammatory myopathy ORPHA-93021 Systemic Sclerosis ORPHA-5536 Systemic lupus erythematosus
	Cliniques universitaires Saint-Luc (UCLouvain) Leuven University Hospital (UZ Leuven)	CALL 1 (2017)	ORPHA-393626 Rare renal disease Adults section: ORPHA-7300 Autosomal dominant polycystic kidney disease ORPHA-39304 Rare renal tubular disease ORPHA-393548 Rare renal tubular disease ORPHA-156162 Renal ciliopathy ORPHA-393548 Renal or uninary tract malformation ORPHA-393573 Thrombotic microangiopathy Pediatric section: ORPHA-93626 Rare renal disease ORPHA-93626 Rare renal disease
ERKNet (Rare Kidney Diseases)	Ghent University Hospital (UZ Gent)	CALL 2 (2021)	Adults section: ORPHA:38024 Autosomal dominant polycystic kidney disease ORPHA:88924 Autosomal dominant polycystic kidney disease type 1 with tuberous sclerosis ORPHA:39357 Genetic cystic renal disease ORPHA:354458 Hemolytic uremic syndrome ORPHA:35458 Hemolytic uremic syndrome ORPHA:35458 Renal or uninary tract malformation ORPHA:39358 Renal or uninary tract malformation ORPHA:39356 Tuberous sclerosis complex Pediatric section: ORPHA:3566 Rare renal tubiase
	Leuven University Hospital (UZ Leuven)	CALL 1 (2017)	ORPHA:101998 Rare epilepsy
EpiCARE (Rare and Complex Epilepsies)	Brussels Rare and Complex Epilepsies Consortium BRACE (Cliniques Universitaires Saint-Luc and Centre William Lennox, UCLouvain; Höpital Universitaire Fasme and Höpital Universitaire des Enfants Reine Fabiola, ULB; Institut de Pathologie et Génétique (IPG), Gosselles)	CALL 2 (2021)	OPPHA-166478 Cerebral mafformation with epilepsy OPPHA-166469 Chromosomal anomaly with epilepsy as a major feature OPPHA-166463 Epilepsy syndrome ORPHA-166481 Infammatory and autoimmune disease with epilepsy ORPHA-166481 Metabolic diseases with epilepsy ORPHA-166481 Metabolic diseases with epilepsy ORPHA-166472 Monogenic disease with epilepsy ORPHA-166473 Neonatal epilepsy syndrome ORPHA-137577 Neonatal hypoxy syndrome ORPHA-137577 Neonatal hypoxy and ischemic brain injury ORPHA-137579 S Rare epilepsy
RITA (Rare Immunodeficiency, Autoinflammatory and Autoimmune Diseases)	Leuven University Hospital (UZ Leuven)	CALL 1 (2017)	ORPHA-33665 AutoInflammatory syndrome ORPHA-101997 Primary Immunodeficiency ORPHA-182064 Rare neuroinflammatory or neuroimmunological disease ORPHA-2820342 Rare systemic or rheumatological disease of childhood ORPHA-38215 Uvetits ORPHA-522759 Vasculitis
	Ghent University Hospital (UZ Gent)	CALL 2 (2021)	ORPHA-33655 Autoinflammatory syndrome ORPHA:101997 Primary immunodeficiency ORPHA:486955 Rare pediatric rheumatologic disease ORPHA:280373 Rare pediatric systemic disease
	Leuven University Hospital (UZ Leuven)	CALL 1 (2017)	ORPHA:98043 Diaphragmatic or abdominal wall malformation ORPHA:103919 Autoimmune pancreatitis
ERNICA (Rare inherited and congenital anomalies)	Cliniques universitaires Saint-Luc (UCLouvain)	CALL 2 (2021)	ORPHA:586 Cystic fibrosis ORPHA:506 Cystic fibrosis ORPHA:510050 Familial hypocalciuric hypercalcemia type 3 ORPHA:576 Hereditary chronic pancreatitis ORPHA:2315 Johanson-Bilzard syndrome ORPHA:199337 Pancreatic insufficiency-anemia-hyperostosis syndrome ORPHA:180924 Rare tumor of pancreas ORPHA:180824 Rare tumor of pancreas ORPHA:180824 Rare tumor of pancreas ORPHA:180824 Rare tumor of pancreas
	Ghent University Hospital (UZ Gent)	CALL 2 (2021)	ORPHA 88993 Esophageal malformation ORPHA:97944 Gastroduodenal malformation ORPHA:97945 Intestinal malformation ORPHA:104009 Rare disease involving intestinal motility ORPHA:104012 Rare inflammatory bowel disease
TransplantChild (Transplantation in Children (incl. HSCT, heart, kidney, liver, intestinal, lung and multiorgan)	Cliniques universitaires Saint-Luc (UCLouvain) Centre linked to 51 ORPHAcodes (disorder(s)/groups of disorders). For a full overview, please consult the Orphanet website. Ghent University Hospital (UZ Gent, Princess Elisabeth Children's Hospital)	CALL 1 (2017) CALL 2 (2021)	ORPHA-32 Alagille syndrome ORPHA-32 Alagille syndrome ORPHA-2137 Autoimmune hepatitis ORPHA-310345 Autosommune hepatitis ORPHA-310345 Autosommune hepatitis ORPHA-130345 Autosommune hepatitis ORPHA-130345 Caroli disease ORPHA-1310 Auto-Chair syndrome ORPHA-33035 Caroli disease ORPHA-33035 Caroli disease ORPHA-35035 Caroli disease ORPHA-35035 Caroli disease ORPHA-35050 Congenital anomaly of hepatic vein ORPHA-35507 Source vein a constraint of the syndrome ORPHA-35507 Congenital anomaly of hepatic vein ORPHA-35507 Source vein a constraint of the syndrome ORPHA-35507 Source vein a constraint of the syndrome ORPHA-3506 Syntic fibrosis ORPHA-3506 Syntic fibrosis ORPHA-3506 Syntic fibrosis ORPHA-3506 Syntic fibrosis ORPHA-3506 Syntic fibrosis ORPHA-3507 Source of tesase due to glucose-6-phosphatase deficiency ORPHA-3307 Givogen storage disease due to glucose-6-phosphatase deficiency ORPHA-34307 Givogen storage disease due to glucose-6-phos
CRANIO (Rare craniofacial anomalies and ear, nose and throat disorders)	Antwerp University Hospital (UZ Antwerpen) Ghent University Hospital (UZ Gent) Leuven University Hospital (UZ Leuven)	CALL 2 (2021) CALL 2 (2021) CALL 2 (2021)	ORPHA/38284 Non-syndromic genetic deafness ORPHA:87884 Non-syndromic genetic deafness ORPHA:164001 Rare edontal or periodontal disorder ORPHA:155382 Rare head and neck malformation ORPHA:55832 Rare head and neck malformation ORPHA:98026 Rare dontologic disease
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2. Belgian patient organisations for rare diseases (as recorded in Orphanet in December 2022)

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ORPHA:166277 Wormian bone-multiple fractures-dentinogenesis imperfecta-skeletal dys		
BOKS - Belgische Organisatie voor Kinderen en Volwassenen met een Stofwisselingsziekte V.Z.W. ORPHA:59 Allan-Herndon-Dudley syndrome		
Association belge pour les enfants et adultes atteints d'une maladie métabolique A.S.B.L. ORPHA:68367 Rare inborn errors of metabolism		
BorstkankerMAN vzw ORPHA:227535 Hereditary breast cancer	BorstkankerMAN vzw	ORPHA:227535 Hereditary breast cancer

NAME OF THE BELGIAN PATIENT ORGANISATION/SUPPORT GROUP REGISTERED IN ORPHANET	(GROUP(S) OF) RARE DISORDER(S)
	ORPHA:221 Dermatomyositis
	ORPHA:809 Mixed connective tissue disease
	ORPHA:732 Polymyositis
CIB-Liga - Liga voor Chronische Inflammatoire Bindweefselziekten VZW	ORPHA:289390 Primary Sjögren syndrome
	ORPHA:801 Scleroderma
	ORPHA:536 Systemic lupus erythematosus
	ORPHA:52759 Vasculitis
	ORPHA:300345 Autosomal systemic lupus erythematosus
	ORPHA:92 Juvenile idiopathic arthritis
CLAIR ASBL - Contre Les Affections Inflammatoires Rhumatismales	ORPHA:93552 Pediatric systemic lupus erythematosus
	ORPHA:535 Rare cutaneous lupus erythematosus
	ORPHA:801 Scleroderma
	ORPHA:536 Systemic lupus erythematosus
CMP-Vlaanderen vzw [Contactgroep Myeloom en Waldenström Patiënten Vlaanderen]	ORPHA:29073 Multiple myeloma
Collectif Defenses to the defense of the demonstration	ORPHA:33226 Waldenström macroglobulinemia
Collectif Drépanocytose asbl / Collectieve sikkelanemie vzw	ORPHA:232 Sickle cell anemia
	ORPHA:223727 Bone sarcoma
Cum Cura VZW	ORPHA:873 Desmoid tumor ORPHA:363976 Giant cell tumor of bone
	ORPHA:3394 Soft tissue sarcoma
DEBRA Belgium A.S.B.L., Association d'entraide pour les patients atteints d'épidermolyse bulleuse	ORPHA:66627 Tenosynovial giant cell tumor
DEBRA Belgium A.S.B.L., Association d'entraide pour les patients atteints à épidermolyse bulieuse DEBRA Belgium V.Z.W., Vereniging voor epidermolysis bullosapatiënten	ORPHA:79361 Inherited epidermolysis bullosa
Denka Beigum V.2. W., Vereniging voor epidermolysis builosapatienten Donner des ailes ASBL - Association belge du syndrome d'Angelman	ORPHA:72 Angelman syndrome
Duchenne Parent Project Belgium V.Z.W.	ORPHA:92896 Duchenne muscular dystrophy
Dyskinesia A.S.B.L.	ORPHA:98896 Duchenne muscular dystrophy ORPHA:244 Primary ciliary dyskinesia
Dysmelia A.S.B.L./V.Z.W.	ORPHA:93457 Non-syndromic limb reduction defect
ELA Belgique A.S.B.L Association européenne contre les leucodystrophies [Antenne Belgique]	ORPHA:68356 Leukodystrophy
Ensemble pour Lola et les Enfants de la Lune ASBL	ORPHA:910 Xeroderma pigmentosum
Epilepsie Liga VZW	ORPHA:101998 Rare epilepsy
	ORPHA:220460 Attenuated familial adenomatous polyposis
FAPA - Familial Adenomatous Polyposis Association A.S.B.L./V.Z.W.	ORPHA:733 Familial adenomatous polyposis
	ORPHA:443909 Hereditary nonpolyposis colon cancer
Fondation contre le Cancer / Stichting tegen Kanker	ORPHA:98057 Rare tumor
Fondation Lou - fondation privée	ORPHA:3157 Septo-optic dysplasia spectrum
Fragiele X Vlaanderen	ORPHA:908 Fragile X syndrome
GESED - Groupe d'Entraide des Syndromes d'Ehlers-Danlos A.S.B.L.	ORPHA:98249 Ehlers-Danlos syndrome
Groupe de soutien aux personnes atteintes du syndrome de Guillain-Barré et leur famille	
[Groupe de l'ABMM]	ORPHA:2103 Guillain-Barré syndrome
HME-MO Lotgenoten Contactgroep - België	ORPHA:321 Multiple osteochondromas
Un debie zu name Un debie VOM	ORPHA:98293 Hodgkin lymphoma
Hodgkin en non-Hodgkin VZW	ORPHA:547 Non-Hodgkin lymphoma
HTAP Belgique - Association des patients souffrant d'HyperTension Artérielle Pulmonaire en Belgique A.S.B.L.	ORPHA:422 Idiopathic/heritable pulmonary arterial hypertension
Huntington Liga V.Z.W.	ORPHA:399 Huntington disease
Ichthyosis België V.Z.W Ichthyosis Belgique A.S.B.L.	ORPHA:79354 Ichthyosis
IKAROS vzw - Epilepsie-contactgroep [Contactgroep Oost-Vlaanderen]	ORPHA:101998 Rare epilepsy
Imagene CAPS Association in Belgium asbl/vzw	ORPHA:575 Muckle-Wells syndrome
INCLUSION A.S.B.L.	ORPHA:87277 Rare intellectual disability
KIKOV-Leuven - Kinderkanker Oudervereniging Leuven vzw	ORPHA:98057 Rare tumor
LCH Belgium - Feitelijke vereniging/ Association de fait	ORPHA:389 Langerhans cell histiocytosis
Les Enfants de Salus Sanguinis, Fondation d'utilité publique	ORPHA:68347 Tumor of hematopoietic and lymphoid tissues
Les Services de l'APEM-T21 A.S.B.L.	ORPHA:870 Down syndrome
LFBE - La Ligue francophone belge contre l'Epilepsie ASBL	ORPHA:101998 Rare epilepsy
LHFB - Ligue Huntington Francophone Belge A.S.B.L. [Région Wallonne et Communauté Française]	ORPHA:399 Huntington disease
Liga Myasthenia Gravis vzw	ORPHA:589 Myasthenia gravis
Ligue Alzheimer ASBL	ORPHA:1020 Early-onset autosomal dominant Alzheimer disease
Ligue Belge du Sjögren ASBL	ORPHA:79078 IgG4-related dacryoadenitis and sialadenitis
	ORPHA:289390 Primary Sjögren syndrome
110/ Longfillenten len Maar delen Maar den 1/ 7 14/	ORPHA:391 Classic Hodgkin lymphoma
LVV - Lymfklierkanker Vereniging Vlaanderen V.Z.W.	ORPHA:168966 Composite lymphoma
	ORPHA:547 Non-Hodgkin lymphoma
msa-ams.be - Meervoudig Systeem Atrofie - Atrophie MultiSystématisée V.Z.W./A.S.B.L.	ORPHA:102 Multiple system atrophy
MRKH.be (België - Belgique - Belgium)	ORPHA:180068 Partial bilateral aplasia of the Müllerian ducts
Mymu Wallonie-Bruxelles ASBL	ORPHA:29073 Multiple myeloma
NET & MEN Kanker VZW België/Belgique	ORPHA:276161 Multiple endocrine neoplasia
	ORPHA:877 Neuroendocrine neoplasm
NE Kentelst. Verenisien voor netiänten met neuvefikse meteon vou	ORPHA:637 Full NF2-related schwannomatosis
NF Kontakt - Vereniging voor patiënten met neurofibromatose vzw	ORPHA:137605 Legius syndrome
	ORPHA:636 Neurofibromatosis type 1

NAME OF THE BELGIAN PATIENT ORGANISATION/SUPPORT GROUP REGISTERED IN ORPHANET	(GROUP(S) OF) RARE DISORDER(S)
OSTC - Overdruksyndroom en Tarlov cysten VZW	ORPHA:238624 Idiopathic intracranial hypertension
	ORPHA:65250 Perineural cyst
Patienten Rat und Treff VoG: Informationen für alle Patienten der deutschsprachigen Gemeinschaft Belgiens	Rare diseases
	ORPHA:2137 Autoimmune hepatitis
	ORPHA:186 Primary biliary cholangitis
Patiëntenvereniging Zeldzame Leverziekten vzw	ORPHA:562639 Primary biliary cholangitis/primary sclerosing cholangitis and
	autoimmune hepatitis overlap syndrome ORPHA:171 Primary sclerosing cholangitis
P.H. België - Belgische Patiëntenvereniging voor Pulmonale Hypertensie vzw	ORPHA:422 Idiopathic/heritable pulmonary arterial hypertension
Postpolio België VZW	ORPHA:2242 Postpoliomyelitis syndrome
Prader-Willi Vlaanderen vzw	ORPHA:739 Prader-Willi syndrome
	Rare diseases
RaDiOrg - Rare Diseases Belgium - BE	(see the Orphanet website for the 33 linked ORPHAcodes)
	Rare diseases
Rare Disorders Belgium (RDB) ASBL - BE	(see the Orphanet website for the 33 linked ORPHAcodes)
Relais 22 asbl	ORPHA:567 22q11.2 deletion syndrome
Retina Pigmentosa asbl, association belge francophone de la rétinopathie d'origine génétique	ORPHA:71862 Inherited retinal disorder
Ring14 Belgium vzw	ORPHA:1440 Ring chromosome 14 syndrome
	ORPHA:293987 Rapid-onset childhood obesity-hypothalamic dysfunction-
ROHHAD Association Belgium A.S.B.L.	hypoventilation-autonomic dysregulation syndrome
Sang pour Sang asbl	ORPHA:232 Sickle cell anemia
Sclero'ken VZW	ORPHA:90291 Systemic sclerosis
	ORPHA:99 Autosomal dominant cerebellar ataxia
	ORPHA:1172 Autosomal recessive cerebellar ataxia
	ORPHA:166 Charcot-Marie-Tooth disease/Hereditary motor and sensory
Spierziekten Vlaanderen vzw	neuropathy
spierziekten vlaanderen vzw	ORPHA:337 Fibrodysplasia ossificans progressiva
	ORPHA:685 Hereditary spastic paraplegia ORPHA:68381 Neuromuscular disease
	ORPHA:98496 Rare peripheral neuropathy ORPHA:306577 Sodium channelopathy-related small fiber neuropathy
	OKPHA.506577 Souldin channelopathy-related small fiber neuropathy
STAN Trefpunt VerSTANdelijke Handicap vzw	ORPHA:87277 Rare intellectual disability
Stichting PTEN België/Nederland - België contact	ORPHA:306498 PTEN hamartoma tumor syndrome
SUN CHILD - Prendre un enfant par la main A.S.B.L.	ORPHA:98057 Rare tumor
Syndrome Moebius Belgique ASBL - Moebius Syndroom België VZW	ORPHA:570 Moebius syndrome
Tous ensemble, main dans la main A.S.B.L. Turnerkontakt vzw	ORPHA:68366 Lysosomal disease ORPHA:881 Turner syndrome
URANUS - Contactgroep voor mensen met epilepsie [Contactgroep West-Vlaanderen]	ORPHA:101998 Rare epilepsy ORPHA:141229 Facial cleft
VAGA - Vereniging voor Aangeboren GelaatsAfwijkingen vzw	ORPHA:141229 Facial cieft ORPHA:68329 Rare maxillo-facial surgical disease
VASCAPA (Vascular Anomaly Patient Association) A.S.B.L./V.Z.W.	ORPHA:68419 Vascular anomaly or angioma
VASCALA (Vascala) Alonialy Faticite Association/A.S.D.E./ V.Z.W.	ORPHA:567 22q11.2 deletion syndrome
/FCAPEA V/7W/- Vecarta 22g11 Delatie Syndroom Vlaanderen	ORFIA.507 22q11.2 deletion syndrome
	OPPHA:199 Corpelia de Lange syndrome
	ORPHA:199 Cornelia de Lange syndrome
/ereniging Cornelia de Lange syndroom - BE (aanspreekpunt voor Nederlandstalig België)	ORPHA:251 Multiple epiphyseal dysplasia
Vereniging Cornelia de Lange syndroom - BE (aanspreekpunt voor Nederlandstalig België)	ORPHA:251 Multiple epiphyseal dysplasia ORPHA:253 Spondyloepiphyseal dysplasia and spondyloepimetaphyseal
Vereniging Cornelia de Lange syndroom - BE (aanspreekpunt voor Nederlandstalig België) Vereniging MED-SED Belgisch contactpunt	ORPHA:251 Multiple epiphyseal dysplasia ORPHA:253 Spondyloepiphyseal dysplasia and spondyloepimetaphyseal dysplasia
Vereniging Cornelia de Lange syndroom - BE (aanspreekpunt voor Nederlandstalig België) Vereniging MED-SED Belgisch contactpunt	ORPHA:251 Multiple epiphyseal dysplasia ORPHA:253 Spondyloepiphyseal dysplasia and spondyloepimetaphyseal dysplasia ORPHA:90340 Blau syndrome
Vereniging Cornelia de Lange syndroom - BE (aanspreekpunt voor Nederlandstalig België) Vereniging MED-SED Belgisch contactpunt Vereniging voor sarcoïdosepatiënten VZW	ORPHA:251 Multiple epiphyseal dysplasia ORPHA:253 Spondyloepiphyseal dysplasia and spondyloepimetaphyseal dysplasia ORPHA:90340 Blau syndrome ORPHA:797 Sarcoidosis
Vereniging Cornelia de Lange syndroom - BE (aanspreekpunt voor Nederlandstalig België) Vereniging MED-SED Belgisch contactpunt Vereniging voor sarcoïdosepatiënten VZW Vlaamse Parkinson Liga (VPL) vzw	ORPHA:251 Multiple epiphyseal dysplasia ORPHA:253 Spondyloepiphyseal dysplasia and spondyloepimetaphyseal dysplasia ORPHA:90340 Blau syndrome ORPHA:797 Sarcoidosis ORPHA:2828 Young-onset Parkinson disease
Vereniging Cornelia de Lange syndroom - BE (aanspreekpunt voor Nederlandstalig België) Vereniging MED-SED Belgisch contactpunt Vereniging voor sarcoïdosepatiënten VZW Vlaamse Parkinson Liga (VPL) vzw	ORPHA:251 Multiple epiphyseal dysplasia ORPHA:253 Spondyloepiphyseal dysplasia and spondyloepimetaphyseal dysplasia ORPHA:90340 Blau syndrome ORPHA:797 Sarcoidosis
Vereniging Cornelia de Lange syndroom - BE (aanspreekpunt voor Nederlandstalig België) Vereniging MED-SED Belgisch contactpunt Vereniging voor sarcoïdosepatiënten VZW Vlaamse Parkinson Liga (VPL) vzw von Hippel-Lindau België	ORPHA:251 Multiple epiphyseal dysplasia ORPHA:253 Spondyloepiphyseal dysplasia and spondyloepimetaphyseal dysplasia ORPHA:90340 Blau syndrome ORPHA:797 Sarcoidosis ORPHA:2828 Young-onset Parkinson disease ORPHA:892 Von Hippel-Lindau disease
Vereniging Cornelia de Lange syndroom - BE (aanspreekpunt voor Nederlandstalig België) Vereniging MED-SED Belgisch contactpunt Vereniging voor sarcoïdosepatiënten VZW Vlaamse Parkinson Liga (VPL) vzw von Hippel-Lindau België	ORPHA:251 Multiple epiphyseal dysplasia ORPHA:253 Spondyloepiphyseal dysplasia and spondyloepimetaphyseal dysplasia ORPHA:90340 Blau syndrome ORPHA:797 Sarcoidosis ORPHA:2828 Young-onset Parkinson disease ORPHA:2824 Von Hippel-Lindau disease ORPHA:275543 L1 syndrome ORPHA:3388 Neural tube defect
Vereniging Cornelia de Lange syndroom - BE (aanspreekpunt voor Nederlandstalig België) Vereniging MED-SED Belgisch contactpunt Vereniging voor sarcoïdosepatiënten VZW Vlaamse Parkinson Liga (VPL) vzw von Hippel-Lindau België VSH - Vereniging voor Spina Bifida en Hydrocephalus VZW	ORPHA:251 Multiple epiphyseal dysplasia ORPHA:253 Spondyloepiphyseal dysplasia and spondyloepimetaphyseal dysplasia ORPHA:90340 Blau syndrome ORPHA:279 Sarcoidosis ORPHA:2828 Young-onset Parkinson disease ORPHA:282 Von Hippel-Lindau disease ORPHA:2822 Von Hippel-Lindau disease ORPHA:27543 L1 syndrome
Vereniging Cornelia de Lange syndroom - BE (aanspreekpunt voor Nederlandstalig België) Vereniging MED-SED Belgisch contactpunt Vereniging voor sarcoïdosepatiënten VZW Vlaamse Parkinson Liga (VPL) vzw zon Hippel-Lindau België JSH - Vereniging voor Spina Bifida en Hydrocephalus VZW VVA - Vlaamse Vereniging Autisme VZW	ORPHA:251 Multiple epiphyseal dysplasia ORPHA:253 Spondyloepiphyseal dysplasia and spondyloepimetaphyseal dysplasia ORPHA:90340 Blau syndrome ORPHA:979 Sarcoidosis ORPHA:2828 Young-onset Parkinson disease ORPHA:2828 Von Hippel-Lindau disease ORPHA:28743 L1 syndrome ORPHA:388 Neural tube defect ORPHA:3176 Spina bifida-hypospadias syndrome
Vereniging Cornelia de Lange syndroom - BE (aanspreekpunt voor Nederlandstalig België) Vereniging MED-SED Belgisch contactpunt Vereniging voor sarcoïdosepatiënten VZW /laamse Parkinson Liga (VPL) vzw zon Hippel-Lindau België VSH - Vereniging voor Spina Bifida en Hydrocephalus VZW /VA - Vlaamse Vereniging Autisme VZW WBS - Williams-Beuren Syndroom VZW	ORPHA:251 Multiple epiphyseal dysplasia ORPHA:253 Spondyloepiphyseal dysplasia and spondyloepimetaphyseal dysplasia ORPHA:90340 Blau syndrome ORPHA:90340 Blau syndrome ORPHA:2828 Young-onset Parkinson disease ORPHA:2822 Von Hippel-Lindau disease ORPHA:325543 L1 syndrome ORPHA:3388 Neural tube defect ORPHA:3376 Spina bifida-hypospadias syndrome ORPHA:3176 Spina bifida-hypospadias syndrome ORPHA:168778 Rare pervasive developmental disorder
Vereniging Cornelia de Lange syndroom - BE (aanspreekpunt voor Nederlandstalig België) Vereniging MED-SED Belgisch contactpunt Vereniging voor sarcoïdosepatiënten VZW Vlaamse Parkinson Liga (VPL) vzw von Hippel-Lindau België VSH - Vereniging voor Spina Bifida en Hydrocephalus VZW VVA - Vlaamse Vereniging Autisme VZW VVA - Vlaamse Vereniging Autisme VZW VBS - Williams-Beuren Syndroom VZW Verkgroep Hersentumoren vzw	ORPHA:251 Multiple epiphyseal dysplasia ORPHA:253 Spondyloepiphyseal dysplasia and spondyloepimetaphyseal dysplasia ORPHA:90340 Blau syndrome ORPHA:279 Sarcoidosis ORPHA:282 Young-onset Parkinson disease ORPHA:282 Von Hippel-Lindau disease ORPHA:275543 L1 syndrome ORPHA:3388 Neural tube defect ORPHA:3388 Neural tube defect ORPHA:3176 Spina bifida-hypospadias syndrome ORPHA:36778 Rare pervasive developmental disorder ORPHA:904 Williams syndrome
Vereniging Cornelia de Lange syndroom - BE (aanspreekpunt voor Nederlandstalig België) Vereniging MED-SED Belgisch contactpunt Vereniging voor sarcoïdosepatiënten VZW Vlaamse Parkinson Liga (VPL) vzw von Hippel-Lindau België VSH - Vereniging voor Spina Bifida en Hydrocephalus VZW VVA - Vlaamse Vereniging Autisme VZW VVA - Vlaamse Vereniging Autisme VZW VVA - Vlaamse Vereniging Autisme VZW WBS - Williams-Beuren Syndroom VZW Werkgroep Hersentumoren vzw Wij Ook Belgium vzw	ORPHA:251 Multiple epiphyseal dysplasia ORPHA:253 Spondyloepiphyseal dysplasia and spondyloepimetaphyseal dysplasia ORPHA:90340 Blau syndrome ORPHA:797 Sarcoidosis ORPHA:2828 Young-onset Parkinson disease ORPHA:2822 Von Hippel-Lindau disease ORPHA:2825 Von Hippel-Lindau disease ORPHA:3175543 L1 syndrome ORPHA:3176 Spina bifida-hypospadias syndrome ORPHA:168778 Rare pervasive developmental disorder ORPHA:168778 Rare pervasive developmental disorder ORPHA:904 Williams syndrome ORPHA:904 Williams syndrome
VECARFA VZW - Vecarfa 22q11 Deletie Syndroom Vlaanderen Vereniging Cornelia de Lange syndroom - BE (aanspreekpunt voor Nederlandstalig België) Vereniging MED-SED Belgisch contactpunt Vereniging voor sarcoïdosepatiënten VZW Vlaamse Parkinson Liga (VPL) vzw von Hippel-Lindau België VSH - Vereniging voor Spina Bifida en Hydrocephalus VZW VVA - Vlaamse Vereniging Autisme VZW WVA - Vlaamse Vereniging Autisme VZW WVS - Vlaamse Vereniging Autisme VZW WES - Williams-Beuren Syndroom VZW Werkgroep Hersentumoren vzw Wij Ook Belgium vzw XLH Belgium A.S.B.L. Zebrapad VZW	ORPHA:251 Multiple epiphyseal dysplasia ORPHA:253 Spondyloepiphyseal dysplasia and spondyloepimetaphyseal dysplasia ORPHA:90340 Blau syndrome ORPHA:2828 Young-onset Parkinson disease ORPHA:2828 Young-onset Parkinson disease ORPHA:2828 Young-onset Parkinson disease ORPHA:3828 Von Hippel-Lindau disease ORPHA:384 Neural tube defect ORPHA:3176 Spina bifida-hypospadias syndrome ORPHA:3176 Spina bifida-hypospadias syndrome ORPHA:3176 Spina bifida-hypospadias syndrome ORPHA:3176 Spina bifida-hypospadias syndrome ORPHA:9062 Rare nervous system tumor ORPHA:3131 Familial prostate cancer
Vereniging Cornelia de Lange syndroom - BE (aanspreekpunt voor Nederlandstalig België) Vereniging MED-SED Belgisch contactpunt Vereniging voor sarcoïdosepatiënten VZW Vlaamse Parkinson Liga (VPL) vzw von Hippel-Lindau België VSH - Vereniging voor Spina Bifida en Hydrocephalus VZW VVA - Vlaamse Vereniging Autisme VZW WPS - Williams-Beuren Syndroom VZW Werkgroep Hersentumoren vzw Wij Ook Belgium vzw XLH Belgium vzw XLH Belgium vzw	ORPHA:251 Multiple epiphyseal dysplasia ORPHA:253 Spondyloepiphyseal dysplasia and spondyloepimetaphyseal dysplasia ORPHA:90340 Blau syndrome ORPHA:279 Sarcoidosis ORPHA:282 Young-onset Parkinson disease ORPHA:282 Von Hippel-Lindau disease ORPHA:382 Von Hippel-Lindau disease ORPHA:3376 Spina bifida-hypospadias syndrome ORPHA:3176 Spina bifida-hypospadias syndrome ORPHA:168778 Rare pervasive developmental disorder ORPHA:9062 Rare nervous system tumor ORPHA:9062 Rare nervous system tumor ORPHA:18617 Familia prostate cancer ORPHA:89936 X-linked hypophosphatemia
Vereniging Cornelia de Lange syndroom - BE (aanspreekpunt voor Nederlandstalig België) Vereniging MED-SED Belgisch contactpunt Vereniging voor sarcoïdosepatiënten VZW /laamse Parkinson Liga (VPL) vzw zon Hippel-Lindau België /SH - Vereniging voor Spina Bifida en Hydrocephalus VZW /VA - Vlaamse Vereniging Autisme VZW /VA - Vlaamse Vereniging Autisme VZW WBS - Williams-Beuren Syndroom VZW Werkgroep Hersentumoren vzw Wij Ook Belgium vzw KLH Belgium A.S.B.L. Zebrapad VZW	ORPHA:251 Multiple epiphyseal dysplasia ORPHA:253 Spondyloepiphyseal dysplasia and spondyloepimetaphyseal dysplasia ORPHA:253 Spondyloepiphyseal dysplasia and spondyloepimetaphyseal dysplasia ORPHA:262 Spondyloepiphyseal dysplasia and spondyloepimetaphyseal dysplasia ORPHA:270 Sarcoidosis ORPHA:282 Young-onset Parkinson disease ORPHA:275543 L1 syndrome ORPHA:3176 Spin abifida -hypospadias syndrome ORPHA:1307 Rare pervasive developmental disorder ORPHA:1317 Final bifida -hypospadias syndrome ORPHA:136778 Rare pervasive developmental disorder ORPHA:3168778 Rare pervasive developmental disorder ORPHA:314 Sinallial prostate cancer ORPHA:33936 X-linked hypophosphatemia ORPHA:989262 Ehlers-Danlos syndrome
/ereniging Cornelia de Lange syndroom - BE (aanspreekpunt voor Nederlandstalig België) /ereniging MED-SED Belgisch contactpunt /laamse Parkinson Liga (VPL) vzw /namse Parkinson Liga (VPL) vzw /on Hippel-Lindau België /SH - Vereniging voor Spina Bifida en Hydrocephalus VZW /XA - Vlaamse Vereniging Autisme VZW WBS - Williams-Beuren Syndroom VZW /Werkgroep Hersentumoren vzw /Xi Ook Belgium vzw LH Belgium A.S.B.L. /ebrapad VZW OI - Zelfhulp Osteogenesis Imperfecta VZW	ORPHA:251 Multiple epiphyseal dysplasia ORPHA:253 Spondyloepiphyseal dysplasia and spondyloepimetaphyseal dysplasia ORPHA:20340 Blau syndrome ORPHA:2828 Young-onset Parkinson disease ORPHA:2828 Young-onset Parkinson disease ORPHA:275543 L1 syndrome ORPHA:3376 Spina bifda-hypospadias syndrome ORPHA:3176 Spina bifda-hypospadias syndrome ORPHA:3176 Rare pervasive developmental disorder ORPHA:904 Williams syndrome ORPHA:9052 Rare nervous system tumor ORPHA:1331 Familial prostate cancer ORPHA:39936 X-linke dhypophosphatemia ORPHA:9249 Ehlers-Danlos syndrome ORPHA:9249 Ehlers-Danlos syndrome

NL: https://www.radiorg.be/nl/over-ons/helpline/

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