

## MODULE PARENTS AND EXPERTS

### ACTIVITY 3. CLASSIFICATION OF NEUROMUSCULAR DISEASES AND MAIN SYMPTOMS

- **TIME:** 30m.
- **RESOURCES:** List of tips on a PDF document / PPT presentation.
- **LANGUAGES:** ENG / SPA.

#### **DESCRIPTION:**

Neuromuscular diseases (NMD) are considered rare diseases, and are a group of more than 150 diseases that all involve injury or dysfunction of peripheral nerves or muscle. Due to their low prevalence, NMD are often difficult to diagnose and unknown to the general population and even doctors that have not specialised in these conditions. Therefore there is a need to gather all these diseases and their main symptoms into a brief guide that can be used to quickly browse through all the diseases and get an overview of every condition.

#### **OBJECTIVES:**

To group neuromuscular diseases in a single document that can be consulted by experts and families of children affected by one of these diseases. This will facilitate the identification and understanding of the implications of these conditions.

#### **LESSON OVERVIEW:**

It can be a document of reference both for families and experts to get an easy-to-understand guide of all types of NMD.

# What does the term "Neuromuscular Diseases" mean?

The term neuromuscular disease refers to diseases caused by the involvement of the motor unit. → The motor unit is the fundamental structure of the muscular system and is formed by the motor neuron of the anterior horn of the spinal cord, the peripheral nerve, the neuromuscular junction and the muscle fiber.

- Damage to any of these structures will condition the presence of weakness, the guiding and common sign of NMD.
- Motor unit involvement can be primary or secondary, isolated or associated.
- In this classification we include primary and some secondary NMDs, which are generally acquired.
- We do not include here secondary muscular disorders (toxic, endocrine, consequence of a deposit disease, drug-related...), nor disorders associated with sensory and/or central nervous system problems.

**Motor neuron  
involvement**

**Peripheral Nerve  
Affection/  
Polyneuropathies**

**Muscle  
Affection**

**Neuromuscular  
junction  
involvement**

# DIRECTORY OF HOSPITALS AND CENTERS SPECIALIZED IN NEUROMUSCULAR DISEASES IN SPAIN

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## 1. Reference Centers, Services and Reference Units (CSUR) in the National Health System

### 1.1. What are the CSUR?

They are centers, services or reference units of the National Health System that provide assistance to people affected by a certain pathology at a national level. These healthcare resources also perform certain diagnostic or therapeutic techniques. They were established by Royal Decree 1302/2006.

#### It is important to differentiate between:

- Reference Center: Health center that is mainly dedicated to the care of certain pathologies or groups of pathologies that meet one or more of the characteristics established in the aforementioned Royal Decree.
- Reference Service or Unit: Service or unit of a health center or service that performs a technique, technology or procedure, or attends to certain pathologies or groups of pathologies that meet one or more of the established characteristics, although it also attends to other pathologies for which it would not be considered a reference.

### 1.2. Objectives of the CSUR

- To improve equity in access to highly specialized services for all citizens when required.

- To concentrate the experience of high level of specialization, guaranteeing quality, safe and efficient health care.
- Improve care for low prevalence pathologies and procedures.

### 1.3. What does it mean to be designated as a CSUR?

- To care for all patients in need nationwide regardless of place of residence.
- To provide comprehensive care, with multidisciplinary teams and to serve as advisors to the professionals who usually care for these patients.
- To guarantee continuity of care at any stage of life and between the different levels of care (Primary Care and Hospital).
- To evaluate the results obtained
- To provide training for professionals.

### 1.4. Where to consult the list of CSUR?

<https://www.sanidad.gob.es/profesionales/CentrosDeReferencia/docs/ListaCSUR.pdf>

### 1.5. CSUR in Neuromuscular Diseases

The Neuromuscular Diseases Unit received accreditation as a CSUR in 2015.

CSUR designated	Autonomous Community	Date	Type of designation
<b>Santa Creu i Sant Pau Hospital</b>	Catalonia	30/04/2016	Adults
<b>Sant Joan de Déu Hospital</b>	Catalonia	30/04/2016	Children
<b>Vall D' Hebrón University Hospital</b>	Catalonia	30/04/2016	Adults and children
<b>University and Polytechnic Hospital La Fe</b>	C. Valenciana	30/04/2016	Adults and children
<b>Virgen del Rocío University Hospital</b>	Andalusia	30/04/2016	Adults
<b>12 de Octubre University Hospital</b>	Madrid	29/05/2018	Adults

<b>Bellvitge University Hospital</b>	Catalonia	15/12/2018	Adults
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## 2. Specialized Care in Hospitals and Centers of the National Health System Network

This section includes the information sheets of all the hospitals that have services or units specialized in the care, intervention and treatment of neuromuscular diseases.

They have been ordered by Autonomous Communities and include all those public or private centers that have some type of agreement with the National Health System.

The information contained in each file is structured in several sections to facilitate its reading and location:



- First, the basic data of the hospital are shown, its location, ownership, and the territorial scope it covers: health service to which it belongs and health area.
- Resources, services and specialized units: Basic information on these resources is included for each hospital. The data of the main medical specialty around which the reference unit has been created is provided, including the following information:
  - Population served: it is indicated whether the service is aimed at a child population, adult population or both.
  - Location / Contact: In those centers where the information is available, the location of the resource in the hospital and the contact number or telephone extension are included.
  - Specialization in any NMD: All the neuromuscular diseases in which the service or unit is most specialized are listed.
  - Professional Team: This section includes all physicians specialized in assisting NMD.

- Information is given on the existence of a biobank linked to this resource or if it participates in any patient registry.
- Services available: Mention is made of the diagnostic tests, laboratory tests and care services available at the reference resource. It also includes information on other medical units or specialties that support NMD care and work in coordination with the main unit.
- Other information of interest: All those research projects being carried out by the resource, focused on NMD, are highlighted, as well as the membership of any scientific society or networking group.

The following is a list, by region, of the hospitals in which the resources specialized in neuromuscular diseases are located, with the information sheet on the reference units and their services.

### 3. Directory of Hospitals and Centers Specialized in Neuromuscular Diseases by Autonomous Community

#### Andalusia




<b>Hospital Virgen de Valme</b>		
<b>Contact information:</b>		
Ctra. de Cádiz Km. 548,9		
41014	Seville	
Seville. Andalucía		
	955 015010	
@	<a href="https://www.agssursevilla.org/agsss/index.php/component/breezingforms/ff_name/Sugerencias?ff_name=Sugerencias">https://www.agssursevilla.org/agsss/index.php/component/breezingforms/ff_name/Sugerencias?ff_name=Sugerencias</a>	
	<a href="http://www.agssursevilla.org">www.agssursevilla.org</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Andalusian Health Service	<i>Seville South</i>
<b>Type of population served</b>	<input type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults

#### Neuromuscular Diseases Unit

<b>Reference Center in NMD</b>	No
<b>Location / Contact</b>	Outpatients, Ground Floor
<b>Specialization in any neuromuscular disease</b>	
No specialization	
<b>Professional team</b>	
<b>Referring physician. Unit Coordinator</b>	Yolanda Morgado Linares Neurology Area Specialist (FEA)
<b>Existence of Biobank or collection of samples</b>	No
<b>Participation in any patient registry</b>	Amyotrophic Lateral Sclerosis (ALS) Myasthenia

<b>Services and resources</b>		
<b>Available Tests</b>	Genetic Studies	Information not available
	Laboratory Tests	EMG; Open or Needle Muscle Biopsy
<b>Medical Units or Specialties supporting NMD care</b>	<b>Rehabilitation</b>	Physical therapy;
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or scientific society</b>		
Member GEEN/SEN CIBERER		

## Andalusia




<b>Hospital Universitario Virgen del Rocío</b>		
<b>Contact information:</b>		
Av. Manuel Siurot, S/N		
41013	Seville	
Seville. Andalusia		
	955012000	
	NA	
	<a href="https://www.hospitaluvrocio.es/blog/contacto-y-ubicacion/">https://www.hospitaluvrocio.es/blog/contacto-y-ubicacion/</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Andalusian Health Service	Seville
<b>Type of population served</b>	<input type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults

<b>Neuromuscular Diseases Unit</b>		
<b>Reference Center in NMD</b>	State (CSUR)	
<b>Location / Contact</b>	Neurology Service, Neuromuscular Diseases Unit, 2nd Floor	
<b>Specialization in any neuromuscular disease</b>		
No specialization		
<b>Professional team</b>		
<b>Referring physician. Unit Coordinator</b>	Carmen Paradas <i>Area specialist (FEA) Neurology</i>	
<b>Existence of biobank or collection of samples.</b>	Muscular dystrophies and ALS: DNA;Tissue;	
<b>Participation in a patient registry</b>	Databases of CIBERER GenRaRe project (Pompe, ALS, muscular dystrophies, Charcot-Marie-Tooth Disease)	

<b>Services and resources</b>		
<b>Available tests</b>	Genetic studies	Massive sequencing genetic techniques
	Laboratory testing	EMG; open or needle muscle biopsy; body MRI

<b>Medical units or specialties in support of NMD care</b>	<b>Genetics</b>	Genetics laboratory;
	<b>Neurophysiology</b>	Neurophysiological studies;
	<b>Rehabilitation</b>	Physiotherapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	No
<b>Other information of interest</b>		
<b>Belonging to a collaborative network or Scientific Society</b>		
Committee of Experts of the ASEM Federation Member of GEEN/SEN and CIBERNED		
<b>Research projects</b>		
Muscular dystrophies and ALS		

## Andalusia



<b>Hospital Universitario Reina Sofia de Cordoba</b>		
<b>Contact information:</b>		
Av. Menendez Pidal, s/n		
14004	Córdoba	
Córdoba. Andalusia		
	957 01 00 00	
	<a href="mailto:sau.hrs.sspa@juntadeandalucia.es">sau.hrs.sspa@juntadeandalucia.es</a>	
	<a href="https://www.sspa.juntadeandalucia.es/servicioandaluzdesalud/hrs3">https://www.sspa.juntadeandalucia.es/servicioandaluzdesalud/hrs3</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Andalusian Health Service	<i>Córdoba, Obejo, Adamuz, Villafranca de Córdoba, Pedro Abad, Castro del Río, EspejoMontoro, Villa del Río, Bujalance, Cañete de las Torres, Valenzuela, La Carlota, Fuente Palmera, Palma del Río, Almodóvar del Río, Posadas, Hornachuelos, Villaviciosa de Córdoba, Villaharta y Peñaflor de la provincia de Sevilla</i>
<b>Type of population served</b>	<input type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults

### Neuromuscular Diseases Unit

<b>NMD Reference Center</b>	Provincial
<b>Location / Contact</b>	Consultation building, access K; Hospitalization in general building: Floor 6B Contact: <a href="https://www.sspa.juntadeandalucia.es/servicioandaluzdesalud/hrs3/index.php?id=neurologia_equipo">https://www.sspa.juntadeandalucia.es/servicioandaluzdesalud/hrs3/index.php?id=neurologia_equipo</a>
<b>Specialization in a neuromuscular disease</b>	
No specialization	
<b>Professional team</b>	
<b>Referring physician. Unit Coordinator</b>	Juan José Ochoa Sepúlveda <i>Head of Neurology Service</i>
<b>Specialized physicians and other health professionals</b>	María Teresa Gómez Caravaca <i>Neurology Specialist Physician (FEA)</i>
<b>Existence of Biobank or collection of samples</b>	Neuromuscular diseases in general: Blood/Srm/Plm; Tissue
<b>Participation in a patient registry</b>	No

<b>Services and resources</b>		
<b>Tests available</b>	Genetic Studies Laboratory Tests	EMG; Open or Needle Muscle Biopsy
<b>Medical units or specialties supporting NMD care</b>	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Occupational therapy; Physical therapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Belonging to a collaborative network or scientific society</b>		
Member of the Neuromuscular Diseases Group of the SEN.		
<b>Research projects</b>		
Collaboration with the group: Neuroplasticity and oxidative stress coordinated by Dr. Tunis as well as with IMIBIC. Special interest in areas such as oxidative stress, demyelinating pathology, cognitive impairment, ALS and cerebrovascular pathology.		

## Aragon


<b>Miguel Servet University Hospital</b>		
<b>Contact information:</b>		
P.º Isabel la Católica, 1-3		
50009	Zaragoza	
Zaragoza. Aragon		
	976 76 55 00	
@	NA	
	<a href="https://sectorzaragozados.salud.aragon.es/">https://sectorzaragozados.salud.aragon.es/</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Aragonese Health Service	<i>Sector Zaragoza II</i>
<b>Type of population served</b>	<input type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults


<b>Neuromuscular Disease Unit</b>	
<b>Reference Center in NMD</b>	State (CSUR)
<b>Location / Contact</b>	<p>Outpatients: Outpatients building floor 3 and in the medical centers of specialties (CME); Hospitalization: Floor 7 of the General Hospital.            Tlf: 976765626 / 976765500, extension 1733</p> <p>Contact:  <a href="http://sectorzaragozados.salud.aragon.es/paginas-libres/portal-sector/servicios-clinicos/servicios-medicos/servicio-de-neurologia.html">http://sectorzaragozados.salud.aragon.es/paginas-libres/portal-sector/servicios-clinicos/servicios-medicos/servicio-de-neurologia.html</a></p>
<b>Specialization in a neuromuscular disease</b>	
<p>Motor neuron disease;            Disorders of the spinal roots;            Nerve plexus diseases;            Neuropathies;            Diseases of the neuromuscular junction;            Myopathies</p>	
<b>Professional team</b>	
Referring physician. Unit Coordinator	José Luis Capablo <i>Chief of Neurology Service and Head of Section in NMD</i>
<b>Existence of Biobank or sample collection.</b>	Neuromuscular diseases in general

<b>Participation in a patient registry</b>	No
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<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive sequencing genetic techniques
	Laboratory tests	EMG; open or needle muscle biopsy; MRI body
<b>Medical units or specialties supporting NMD care</b>	<b>Genetics</b>	Genetics laboratory, Genetic counseling
	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Occupational therapy; Physiotherapy; Speech therapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
Member of the Neuromuscular Diseases Group of the Spanish Society of Neurology (SEN); CIBERER		
<b>Research projects</b>		
Participation in the Center for Biological Research in Rare Diseases Network.		

## Canary Islands

<b>University Hospital of the Canary Islands</b>	
<b>Contact information:</b>	
Ctra. Ofra S/N, La Cuesta	
38320	San Cristobal de la Laguna
Santa Cruz de Tenerife. Canary Islands	
	Switchboard Telephone: 922 678 000 Customer Service Telephone: 922 678 283
@	NA

	<a href="https://www3.gobiernodecanarias.org/sanidad/scs/organica.jsp?idCarpeta=3da5f513-541b-11de-9665-998e1388f7ed">https://www3.gobiernodecanarias.org/sanidad/scs/organica.jsp?idCarpeta=3da5f513-541b-11de-9665-998e1388f7ed</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Canary Health Service	<i>Tenerife North</i>
<b>Type of population served</b>	<input checked="" type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults

<b>Neuromuscular Disease Unit - Adults</b>		
<b>Reference Center in NMD</b>	Autonomic	
<b>Location / Contact</b>	Outpatient Clinic Building, Floor 3 Phone: 922677330 ext. 31316 Email: <a href="mailto:Yivabar@gobiernodecanarias.org">Yivabar@gobiernodecanarias.org</a>	
<b>Specialization in a neuromuscular disease</b>		
Motor neuron disease; Nerve plexus diseases; Neuropathies; Diseases of the neuromuscular junction; Myopathies		
<b>Professional team</b>		
<b>Referring physician. Unit Coordinator</b>	Helena Pérez Pérez and Yerko Ivánovic Barbeito <i>Neurology Area Specialist (FEA)</i>	
<b>Specialized physicians and other health professionals</b>	Yerko Ivánovic Barbeito <i>Specialist Physician (FEA) in Neurology</i>	
<b>Existence of Biobank or sample collection.</b>	No	
<b>Participation in a patient registry</b>	No	

<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive sequencing genetic techniques;
	Laboratory tests	EMG; RMN body
<b>Medical units or specialties supporting NMD care</b>	<b>Genetics</b>	Genetics laboratory; Genetic counseling
	<b>Neurophysiology</b>	Neurophysiological studies;
	<b>Rehabilitation</b>	Occupational therapy; Physiotherapy; Speech therapy
	<b>Ventilation Unit</b>	Yes

	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
Miembro GEEN/SEN; CIBERER; Feder;		
<b>Research projects</b>		
No		

<b>Neuromuscular Diseases Unit - Childhood</b>		
<b>Reference Center in NMD</b>	Autonomic	
<b>Location / Contact</b>	Ambulatory Consultations Building, Floor 3 Email: 922677330 ext. 31316	
<b>Specialization in a neuromuscular disease</b>		
Motor neuron disease; Nerve plexus diseases; Neuropathies; Diseases of the neuromuscular junction; Myopathies		
<b>Professional team</b>		
<b>Referring physician. Unit Coordinator</b>	Helena Pérez Pérez and Yerko Ivánovic Barbeito <i>Neurology Area Specialist (FEA)</i>	
<b>Specialized physicians and other health professionals</b>	Yerko Ivánovic Barbeito <i>Specialist Physician (FEA) in Neurology</i>	
<b>Existence of Biobank or sample collection.</b>	No	
<b>Participation in a patient registry</b>	No	

<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive sequencing genetic techniques
	Pruebas de laboratorio	EMG; RMN body
<b>Medical units or specialties supporting NMD care</b>	<b>Genetics</b>	Genetics laboratory; Genetic counseling
	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Occupational therapy; Physiotherapy; Speech therapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes

	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
Member of GEEN/SEN; CIBERER y Feder		
<b>Research projects</b>		
No		

## Canary Islands



<b>Hospital Universitario de Gran Canaria Doctor Negrín</b>		
<b>Contact information:</b>		
C. Pl. Barranco de la Ballena, S/N		
35000	Las Palmas de Gran Canaria	
Las Palmas. Canary Islands.		
☎	<b>Switchboard Telephone:</b> 928 450 000 <b>Consultation Phone:</b> 928 449 178	
@	NA	
🌐	<a href="https://www3.gobiernodecanarias.org/sanidad/scs/organica.jsp?idCarpeta=887001ae-541d-11de-9665-998e1388f7ed">https://www3.gobiernodecanarias.org/sanidad/scs/organica.jsp?idCarpeta=887001ae-541d-11de-9665-998e1388f7ed</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Canary Health Service	<i>North</i>
<b>Type of population served</b>	<input type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults

<b>Neuromuscular Disease Unit</b>	
<b>Reference Center in NMD</b>	No
<b>Location / Contact</b>	5th Floor 928450271
<b>Specialization in a neuromuscular disease</b>	
Motor neuron disease; Neuropathies; Neuromuscular junction diseases; Myopathies; Nerve plexus diseases	
<b>Professional team</b>	

<b>Referring physician. Unit Coordinator</b>	María Dolores Mendoza Grimon <i>Specialist in Neurology (FEA)</i>
<b>Existence of Biobank or sample collection.</b>	No
<b>Participation in a patient registry</b>	Myasthenia Oculopharyngeal Dystrophy SMA

<b>Services and resources</b>		
<b>Available tests</b>	Laboratory tests	EMG; Needle or open muscle biopsy
	<b>Rehabilitation</b>	Genetics laboratory; Genetic counseling
<b>Medical units or specialties supporting NMD care</b>	<b>Ventilation Unit</b>	Neurophysiological studies
	<b>Family Cardiopathy Unit</b>	Occupational therapy; Physiotherapy; Speech therapy
	<b>Dysphagia Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	No
<b>Membership in a collaborative network or Scientific Society</b>		
Member of GEEN/SEN		

## Canary Islands



<b>Island University Hospital Complex maternal-child</b>		
<b>Contact information:</b>		
Av. Marítima del Sur, S/N		
35016	Las Palmas de Gran Canaria	
Las Palmas. Canary Islands		
	928444000	
@	NA	
	<a href="https://www3.gobiernodecanarias.org/sanidad/scs/organica.jsp?idCarpeta=04d48f0a-541c-11de-9665-998e1388f7ed">https://www3.gobiernodecanarias.org/sanidad/scs/organica.jsp?idCarpeta=04d48f0a-541c-11de-9665-998e1388f7ed</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Canary Health Service	<i>Gran Canaria South Area</i>
<b>Type of population served</b>	<input checked="" type="checkbox"/> Children	<input type="checkbox"/> Adults

<b>Neuromuscular Diseases Unit - Childhood</b>	
<b>Reference Center in NMD</b>	No
<b>Location / Contact</b>	Neurology Service, 6th Floor South C: 928441601/ 928441610
<b>Specialization in a neuromuscular disease</b>	
No specialization	
<b>Professional team</b>	
<b>Referring physician. Unit Coordinator</b>	Dr. Antonio J. Gutiérrez Martínez <i>Area specialist (FEA) in Neurology</i>
<b>Existence of Biobank or sample collection</b>	No
<b>Participation in a patient registry</b>	Spanish Registry of Neuromuscular Diseases (NMD-ES). Pompe disease registry

<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive sequencing genetic techniques
	Laboratory tests	EMG; open or needle muscle biopsy; MRI body
<b>Medical units or specialties supporting NMD care</b>	<b>Genetics</b>	Genetics laboratory; Genetic counseling
	<b>Neurophysiology</b>	Occupational therapy; Physical therapy; Speech therapy;
	<b>Rehabilitation</b>	Yes
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
Member GEEN/SEN		

## Cantabria

<b>Hospital Universitario Marqués de Valdecilla</b>	
<b>Contact information:</b>	
Av. de Valdecilla, 25	
39008	Santander

Cantabria. Cantabria		
	942202520	
@	NA	
	<a href="http://www.humv.es">www.humv.es</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Cantabrian Health Service	<i>healthcare area I, Cantabria</i>
<b>Type of population served</b>	<input type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults

<b>Neuromuscular Disease Unit</b>		
<b>Reference Center in NMD</b>	No;	
<b>Location / Contact</b>	Valdecilla South Outpatients Building - 2nd Floor, Aisle 2 Phone: 942202507 Email: <a href="mailto:analara.pelayo@scsalud.es">analara.pelayo@scsalud.es</a>	
<b>Specialization in a neuromuscular disease</b>		
Neuropathies		
<b>Professional team</b>		
<b>Referring physician. Unit Coordinator</b>	Ana Lara Pelayo Negro <i>Area specialist (FEA) in Neurology</i>	
<b>Existence of Biobank or sample collection.</b>	Spinal Muscular Atrophy: Blood/Srm/Plm; Tissue; DNA; CSF	
<b>Participation in a patient registry</b>	Spanish Registry of Neuromuscular Diseases (NMD-ES)	

<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive sequencing genetic techniques;
	Laboratory tests	EMG; open or needle muscle biopsy; body MRI; MRI body
<b>Medical units or specialties supporting NMD care</b>	<b>Rehabilitation</b>	Genetics laboratory; Genetic counseling
	<b>Ventilation Unit</b>	Neurophysiological studies
	<b>Family Cardiopathy Unit</b>	Occupational therapy; Physiotherapy; Speech therapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes

<b>Other information of interest</b>
<b>Membership in a collaborative network or Scientific Society</b>
MemberGEEN/SEN; CIBERNED
<b>Research projects</b>
Hereditary neuropathies

## Community of Madrid

<b>Ramón y Cajal University Hospital</b>		
<b>Contact information:</b>		
Ctra. de Colmenar Viejo km. 9,100		
28034	Madrid	
Madrid Community, Madrid Community		
☎	913360000	
@	NA	
🌐	<a href="https://www.comunidad.madrid/hospital/ramonycajal/">https://www.comunidad.madrid/hospital/ramonycajal/</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Madrid Health Service	<i>healthcare area 4</i>
<b>Type of population served</b>	<input type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults

<b>Neuromuscular Disease Unit</b>		
<b>Reference Center in NMD</b>	No	
<b>Location / Contact</b>	Floor -2 Center Phone: 913368594 Email: <a href="mailto:neurologia@salud.madrid.org">neurologia@salud.madrid.org</a>	
<b>Specialization in a neuromuscular disease</b>		
Hereditary diseases		
<b>Professional team</b>		
<b>Referring physician. Unit Coordinator</b>	Adriano Jiménez Escrig <i>Area specialist (FEA) in Neurology</i>	
<b>Existence of Biobank or sample collection.</b>	Ataxias and spastic paraparesis: Blood/Srm/Plm; Tissue; DNA.	
<b>Participation in a patient registry</b>	Hereditary Ataxias and Paraparesias	

<b>Services and resources</b>		
	<b>Genetics</b>	Genetics laboratory; Genetic counseling

<b>Units or medical specialties supporting NMD care</b>	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Occupational therapy; Physiotherapy;Speech therapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Ventilation Unit</b>	Yes

## Community of Madrid

<b>Infanta Sofia University Hospital</b>		
<b>Contact information:</b>		
Paseo de Europa, 34		
28702	San Sebastián de los Reyes	
Community of Madrid. Community of Madrid		
☎	911914000	
@	NA	
🌐	<a href="https://www.comunidad.madrid/hospital/infantasofia/comunicacion/contacto">https://www.comunidad.madrid/hospital/infantasofia/comunicacion/contacto</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Madrid Health Service	Health area 5
<b>Type of population served</b>	<input type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults

<b>Neuromuscular Disease Unit</b>	
<b>Reference Center in NMD</b>	No
<b>Location / Contact</b>	Hospitalization: Floor 6, Tower 1. Ambulatory Activity: Ground Floor, Corridor 4.
<b>Specialization in a neuromuscular disease</b>	
Motor neuron disease; Disorders of the spinal roots; Nerve plexus diseases; Neuropathies; Diseases of the neuromuscular junction; Myopathies	
<b>Professional team</b>	
<b>Referring physician. Unit Coordinator</b>	Gerardo Gutierrez Gutierrez Area specialist (FEA) in Neurology

<b>Specialized physicians and other health professionals</b>	Dr. Fco. José Navacerrada Barbero <i>Area specialist (FEA) in Neurology</i>
<b>Existence of Biobank or sample collection.</b>	No
<b>Participation in a patient registry</b>	In all CIBERER Neuromuscular: Muscular Dystrophies; Spinal Muscular Atrophy; Charcot-Marie-Tooth Neuropathy; ALS; Myasthenia gravis and congenital; Inflammatory Myopathies; Hereditary and Acquired Ataxias; Friedreich's Ataxia; Lafo's Disease

<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive sequencing genetic techniques
	Laboratory tests	EMG; Needle or open muscle biopsy; Body MRI; Exercise testing; Diagnostic Imaging
<b>Medical units or specialties supporting NMD care</b>	<b>Genetics</b>	Genetics laboratory; Genetic counseling is provided by the NMD specialist.
	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitaci3n</b>	Occupational Therapy; Physiotherapy; Speech Therapy There is a multidisciplinary team of cardiologists, pulmonologists and digestive specialists who care for patients with MND.
	<b>Unidad de Ventilaci3n</b>	Yes
	<b>Unidad de Cardiopatías familiares</b>	Yes
	<b>Unidad de Disfagia</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
Member GEEN/SEN; Committee of Experts of Federaci3n ASEM; CIBERER;		

## Community of Madrid

**Hospital Universitario La Paz / Hospital Carlos III**

**Contact information:**

Paseo de La Castellana 261	
28046	Madrid
Community of Madrid. Community of Madrid	
☎	917277000
@	NA
🌐	<a href="https://www.comunidad.madrid/hospital/lapaz/">https://www.comunidad.madrid/hospital/lapaz/</a>
<b>Ownership</b>	Public
<b>Territorial Scope</b>	Madrid Health Service <i>Health Area 5</i>
<b>Type of population served</b>	<input checked="" type="checkbox"/> Children <input checked="" type="checkbox"/> Adults

<b>Neuromuscular Disease Unit</b>	
<b>Reference Center in NMD</b>	No;
<b>Location / Contact</b>	Ground Floor of the Carlos III Hospital (Calle Sinesio Delgado 10, 28029 Madrid)
<b>Specialization in a neuromuscular disease</b>	
Motor neuron disease; Neuromuscular Junction Diseases	
<b>Professional team</b>	
<b>Referring physician. Unit Coordinator</b>	Francisco Javier Rodriguez de Rivera <i>Coordinator CSUR Hereditary Ataxias and Paraplegias and Neuromuscular Enf.</i>
<b>Existence of Biobank or sample collection.</b>	No
<b>Participation in a patient registry</b>	No

<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive sequencing genetic techniques
	Laboratory tests	EMG; Biopsia muscular abierta o con aguja; RMN body;
<b>Medical units or specialties supporting NMD care</b>	<b>Genetics</b>	Genetics laboratory
	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Speech therapy; Physical therapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		



<b>Membership in a collaborative network or Scientific Society</b>
Miembro GEEN/SEN
<b>Research projects</b>
ALS and Myasthenia

<b>Neuromuscular Diseases Unit - Childhood</b>	
<b>Reference Center in NMD</b>	No;
<b>Location / Contact</b>	Neuropediatric Consultations
<b>Specialization in a neuromuscular disease</b>	
Motor neuron disease; Disorders of the spinal roots; Nerve plexus diseases; Neuropathies; Diseases of the neuromuscular junction; Myopathies	
<b>Professional team</b>	
<b>Referring physician. Unit Coordinator</b>	Samuel Ignacio Pascual Pascual <i>Head of Neuropediatrics Service</i>
<b>Existence of Biobank or collection of samples</b>	No
<b>Participation in a patient registry</b>	Treat-CTM

<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive sequencing genetic techniques
	Laboratory tests	EMG; open or needle muscle biopsy; MRI body;
<b>Medical units or specialties supporting NMD care</b>	<b>Genetics</b>	Genetics laboratory
	<b>Neurofisiología</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Speech therapy; Physical therapy;
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
SENEP: CIBERER		

## Community of Madrid

<b>Gregorio Marañón General University Hospital</b>
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<b>Contact information:</b>		
Calle Dr. Esquerdo, 46		
28007	Madrid	
Community of Madrid. Community of Madrid.		
	915 868000	
@	sap.hgugm@salud.madrid.org	
	<a href="https://www.comunidad.madrid/hospital/gregoriomaranon">https://www.comunidad.madrid/hospital/gregoriomaranon</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Madrid Health Service	<i>health areas 1, 2 and 3</i>
<b>Type of population served</b>	<input type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults

<b>Neuromuscular Disease Unit</b>	
<b>Reference Center in NMD</b>	Autonomic
<b>Location / Contact</b>	Ground Floor-IPMQ Tlf: 915868634 Email: <a href="mailto:uelanm.hgugm@salud.madrid.org">uelanm.hgugm@salud.madrid.org</a>
<b>Specialization in a neuromuscular disease</b>	
<p>Motor neuron disease;          Nerve plexus diseases;          Disorders of spinal roots;          Neuropathies; Diseases of the neuromuscular junction;          Myopathies;          Hereditary Ataxias</p>	
<b>Professional team</b>	
<b>Referring physician. Unit Coordinator</b>	Jose Luis Muñoz Blanco <i>Head of Unit</i>
<b>Specialized physicians and other health professionals</b>	<p>Irene Catalina Álvarez <i>Specialist Physician of Neurology Area (FEA)</i></p> <p>Sofía Portela <i>Neurology Area Specialist (FEA)</i></p> <p>Antonio Sánchez Soblechero <i>Neurology Area Specialist Physician (FEA)</i></p>
<b>Existence of Biobank or sample collection.</b>	ALS, Myasthenia, Guillain-Barre Syndrome, Chronic Idiopathic Demyelinating Demyelinating Polyneuropathy (CIDP): Blood/Srm/Plm; Tissue; DNA.

<b>Participation in a patient registry</b>	ALS, Myasthenia, Pompe Disease, Hereditary Myopathies, Guillain-Barre Syndrome, CIDP, Hereditary Neuropathies
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<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive sequencing genetic techniques
	Laboratory tests	EMG; open or needle muscle biopsy; body MRI; peripheral nerve biopsy;
<b>Medical units or specialties supporting NMD care</b>	<b>Genetics</b>	Genetics laboratory
	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Occupational therapy; Physiotherapy; Speech therapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
Member GEEN/SEN; CIBERER; RED ELA MADRID		
<b>Research projects</b>		
ALS, Myasthenia, Guillain-Barre Syndrome, CIDP		

## Community of Madrid

<b>Hospital Universitario 12 de Octubre</b>		
<b>Contact information:</b>		
Av. de Córdoba S/N		
28041	Madrid	
Community of Madrid, Community of Madrid		
	913908000	
@	<a href="https://www.comunidad.madrid/hospital/12octubre/ciudadanos/atencion-paciente">https://www.comunidad.madrid/hospital/12octubre/ciudadanos/atencion-paciente</a>	
	<a href="https://www.comunidad.madrid/hospital/12octubre/">https://www.comunidad.madrid/hospital/12octubre/</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Madrid Health Service	<i>Health Area 11</i>
<b>Type of population served</b>	<input checked="" type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults

<b>Neuromuscular Disease Unit</b>	
<b>Reference Center in NMD</b>	State (CSUR)
<b>Location / Contact</b>	Outpatient Clinic Building, Floor 5, Block C Phone: 917792580 Email: <a href="mailto:Neuromuscular.hdoc@salud.madrid.org">Neuromuscular.hdoc@salud.madrid.org</a>
<b>Specialization in a neuromuscular disease</b>	
Motor neuron disease; Neuropathies; Neuromuscular junction diseases; Myopathies	
<b>Professional team</b>	
<b>Referring physician. Unit Coordinator</b>	Cristina Domínguez González <i>Neuromuscular Diseases CSUR Coordinator</i>
<b>Specialized physicians and other health professionals</b>	Jesús Esteban Pérez <i>ALS Unit Coordinator</i>  Juan Francisco Gonzalo Martínez <i>Specialist Physician (FEA) in Neurology</i>
<b>Existence of Biobank or sample collection.</b>	Motor neuron diseases: Blood/Srm/Plm; Tissue; DNA. Muscular dystrophies: Blood/Srm/Plm; Tissue; DNA
<b>Participation in a patient registry</b>	CIBERER GenRare Registry



<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive sequencing genetic techniques
	Laboratory tests	EMG; open or needle muscle biopsy; MRI body
<b>Other information of interest</b>		
<b>Membership in a collaborative network or scientific society</b>		
Member of GEEN/SEN; CIBERER Committee of Experts of the ASEM Federation Research projects		
<b>Research projects</b>		
Metabolic and mitochondrial myopathies		


<b>Neuromuscular Diseases Unit - Childhood</b>	
<b>Reference Center in NMD</b>	No
<b>Location / Contact</b>	Neuropediatric Consultations
<b>Specialization in a neuromuscular disease</b>	

Disorders of the spinal roots; Nerve plexus diseases; Motor neuron disease; Neuropathies; Neuromuscular junction diseases; Myopathies	
<b>Professional team</b>	
<b>Referring physician. Unit Coordinator</b>	Ana Camacho Salas <i>Facultativo especialista de área (FEA) Neurología</i>
<b>Existence of Biobank or sample collection.</b>	Motor neuron diseases: <i>Blood/Srm/Plm; Tissue; DNA</i> Muscular dystrophies <i>Blood/Srm/Plm; Tissue; DNA</i>
<b>Participation in a patient registry</b>	CIBERER GenRare Registry

<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive sequencing genetic techniques
	Laboratory tests	EMG; open or needle muscle biopsy; MRI body
<b>Medical units or specialties supporting NMD care</b>	<b>Genetics</b>	Genetics laboratory;
	<b>Neurofisiología</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Speech therapy; Physical therapy;
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
SENEP		

## Community of Madrid

<b>Hospital Universitario Niño Jesús</b>	
<b>Contact information:</b>	
Av. de Menéndez Pelayo, 65	
28009	Madrid
Community of Madrid. Community of Madrid.	
	915035900
	NA



	<a href="https://www.comunidad.madrid/hospital/ninojesus/">https://www.comunidad.madrid/hospital/ninojesus/</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Madrid Health Service	Health Areas 1, 2 and 3
<b>Type of population served</b>	<input checked="" type="checkbox"/> Children	<input type="checkbox"/> Adults

<b>Neuromuscular Diseases Unit - Childhood</b>		
<b>Reference Center in NMD</b>	No	
<b>Location / Contact</b>	Second floor (Neuropediatrics offices) hospitalization (Sala St. Vincente)	
<b>Specialization in a neuromuscular disease</b>		
Motor neuron disease; Disorders of the spinal roots; Nerve plexus diseases; Neuropathies; Diseases of the neuromuscular junction; Myopathies		
<b>Professional team</b>		
<b>Referring physician. Unit Coordinator</b>	Victor Soto Insuga <i>Neurology Area Specialist (FEA)</i>	
<b>Specialized physicians and other health professionals</b>	Pool of neuropediatrics attendings of the hospital	
<b>Existence of Biobank or sample collection.</b>	Neuropathies: Blood/Srm/Plm; Tissue; DNA	
<b>Participation in a patient registry</b>	No	

<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive sequencing genetic techniques
	Laboratory tests	EMG; Biopsia muscular abierta o con aguja
<b>Medical units or specialties supporting NMD care</b>	<b>Genetics</b>	Genetics laboratory;
	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Speech therapy; Physical therapy;
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes

	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
SENEP		



## Valencian Community

<b>Hospital General de Alicante</b>		
<b>Contact information:</b>		
Calle Pintor Baeza 11		
03010	Alicante	
Alicante. Valencian Community.		
	965333507	
@	<a href="mailto:hgralalicante_saip@gva.es">hgralalicante_saip@gva.es</a>	
	<a href="http://alicante.san.gva.es/portada">http://alicante.san.gva.es/portada</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Conselleria de Sanitat Universal i Salut Pública, Generalitat Valenciana	<i>Alicante</i>
<b>Type of population served</b>	<input type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults

<b>Neuromuscular Disease Unit</b>	
<b>Reference Center in NMD</b>	No
<b>Location / Contact</b>	Neurology Outpatient Clinic, 6th Floor Tlf: 965913697 Email: <a href="mailto:neurologia_hga@gva.es">neurologia_hga@gva.es</a>
<b>Specialization in a neuromuscular disease</b>	
Motor neuron disease; Neuropathies; Neuromuscular junction diseases; Myopathies	
<b>Professional team</b>	
<b>Referring physician. Unit Coordinator</b>	Carmen Díaz Marín <i>Head of Service</i>
<b>Existence of Biobank or sample collection.</b>	Amyotrophic Lateral Sclerosis (ALS): Blood/Srm/Plm
<b>Participation in a patient registry</b>	Peripheral Neuropathies

<b>Services and resources</b>		
<b>Units or medical specialties supporting NMD care</b>	<b>Genetics</b>	Genetics laboratory.
	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Speech therapy; Physical therapy;
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
Member GEEN/SEN; CIBERER		
<b>Research projects</b>		
ALS cell therapy, Axon-glia signaling in hereditary neuropathies		

## Valencian Community

<b>Hospital Universitari i Politènic La Fe</b>		
<b>Contact information:</b>		
Avinguda de Fernando Abril Martorell, 106		
46026	Valencia	
Valencia. Valencian Community.		
	961244000	
@	NA	
	<a href="http://www.hospital-lafe.com">http://www.hospital-lafe.com</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Conselleria de Sanitat Universal i Salut Pública, Generalitat Valenciana	<i>Valencia La Fe Health Department</i>
<b>Type of population served</b>	<input checked="" type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults

<b>Neuromuscular Disease Unit - Adults</b>	
<b>Reference Center in NMD</b>	State (CSUR), Autonomic

<b>Location / Contact</b>	Neurology Service, Neuromuscular Diseases Unit, Tower D -Floor 5ª. Phone: 961245542 Email: <a href="mailto:neuromuscular.lafe@gmail.com">neuromuscular.lafe@gmail.com</a> <a href="mailto:unidadneuromuscularlafe@gmail.com">unidadneuromuscularlafe@gmail.com</a>
<b>Specialization in a neuromuscular disease</b>	
Motor neuron disease; Neuropathies; Neuromuscular junction diseases; Myopathies;	
<b>Professional team</b>	
<b>Referring physician. Unit Coordinator</b>	Teresa Sevilla Mantecón <i>Coordinator of the Neuromuscular Diseases Unit.</i>
<b>Existence of Biobank or sample collection.</b>	For neurological and neuromuscular diseases: Blood/Srm/Plm; Tissue; DNA.
<b>Participation in a patient registry</b>	Neuropathies, motor neuron diseases and myopathies.

<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive sequencing genetic techniques
	Laboratory tests	EMG; Needle or open muscle biopsy; Body MRI; Nerve biopsy and skin biopsy for neuropathies
<b>Medical units or specialties supporting NMD care</b>	<b>Genetics</b>	Genetics laboratory; Genetic counseling
	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Speech therapy; Physical therapy; Occupational therapy
	<b>Ventilation Unit</b>	Yes
	<b>Familial Cardiopathies Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
Member GEEN/SEN; CIBERER		
<b>Research projects</b>		
Neuropathies, motor neuron diseases, myopathies, myasthenias.		

<b>Neuromuscular Diseases Unit - Childhood</b>	
<b>Reference Center in NMD</b>	State (CSUR)
<b>Location / Contact</b>	2nd floor, Tower C

	Phone: 961244104 - 961244105 Email: <a href="mailto:neuromuscularpediatrico_lafe@gva.es">neuromuscularpediatrico_lafe@gva.es</a>
<b>Specialization in a neuromuscular disease</b>	
Disorders of the spinal roots; Nerve plexus diseases; Neuropathies; Diseases of the neuromuscular junction; Myopathies	
<b>Professional team</b>	
<b>Referring physician. Unit Coordinator</b>	Inmaculada Pitarch Castellano <i>Coordinator of the Pediatric Neuromuscular Diseases Unit. Pediatric Neurology.</i>
<b>Specialized physicians and other health professionals</b>	Eugenia Ibáñez Albert <i>Adjunct Physician, Children's Rehabilitation Section. Physical Medicine and Rehabilitation Service.</i>  María Damià Vidal <i>Neuropsychologist specialized in NMD</i>  Juan Carlos León Castro <i>Physiotherapist. Children's Rehabilitation Section. Physical Medicine and Rehabilitation Service.</i>
<b>Existence of Biobank or sample collection.</b>	Neuropathies <i>Blood/Srm/Plm;Tissue; DNA</i>  Myopathies <i>Blood/Srm/Plm;Tissue; DNA</i> <i>Spinal Muscular Atrophy</i>
<b>Participation in a patient registry</b>	Spinal Muscular Atrophy

<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive sequencing genetic techniques
	Laboratory tests	EMG; Open or needle muscle biopsy; MRI body
<b>Medical units or specialties supporting NMD care</b>	<b>Genetics</b>	Genetic laboratory; Genetic counseling
	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Occupational therapy; Speech therapy; Physiotherapy;

	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
CIBERER Member AEP (Spanish Association of Pediatrics), SENEP (Spanish Society of Pediatric Neurology) and SEN (Spanish Society of Neurology). Working Group on Neuromuscular Diseases of the SENEP.		
<b>Research projects</b>		
Cognitive implications in Neuromuscular Diseases.		

## Castilla la Mancha



<b>Albacete University Hospital Complex</b>		
<b>Contact information:</b>		
Calle Hermanos Falco, 37		
02006	Albacete	
Albacete. Castilla-La Mancha		
☎	967597440/ 967597165	
@	NA	
🌐	<a href="https://www.chospab.es/">https://www.chospab.es/</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Castilla-La Mancha Health Service	<i>Albacete capital</i>
<b>Type of population served</b>	<input type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults

<b>Neuromuscular Disease Unit</b>	
<b>Reference Center in NMD</b>	Provincial
<b>Location / Contact</b>	Outpatients: Ground floor, rooms 49, 50 and 51. Hospitalization: 5th floor right (NEUROLOGY) Phone: 967 59 74 93 Email: <a href="mailto:neurologia.gaiab@sescam.jccm.es">neurologia.gaiab@sescam.jccm.es</a>
<b>Specialization in a neuromuscular disease</b>	
No specialization	

Professional team	
<b>Referring physician. Unit Coordinator</b>	Dr. Tomás Segura Martín <i>Chief of Neurology Service and Head of Section in NMD</i>
<b>Specialized physicians and other health professionals</b>	Jorge García García <i>Specialist Physician (FEA) in Neurology</i>
<b>Existence of Biobank or sample collection.</b>	Neuromuscular diseases in general: Blood/Srm/Plm
<b>Participation in a patient registry</b>	No

Services and resources		
<b>Available tests</b>	Pruebas de laboratorio	EMG; Biopsia muscular abierta o con aguja; Biopsia de nervio
	<b>Neurophysiology</b>	Neurophysiological studies
<b>Medical units or specialties supporting NMD care</b>	<b>Rehabilitation</b>	Speech therapy; Physical therapy; Occupational therapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
Member of the Neuromuscular Diseases Group of the SEN.		

## Catalonia

Hospital Universitari de Bellvitge		
<b>Contact information:</b>		
Carrer de la Feixa Llarga, s/n		
08907	L'Hospitalet de Llobregat	
Barcelona. Cataluña		
	932 60 75 00	
@	<a href="mailto:uac@bellvitgehospital.cat">uac@bellvitgehospital.cat</a>	
	<a href="https://bellvitgehospital.cat/">https://bellvitgehospital.cat/</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Instituto Catalán de la Salud (ICS)	Área Metropolitana Sur de Barcelona, Camp de Tarragona y Terres de l'Ebre

<b>Type of population served</b>	<input type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults
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<b>Neuromuscular Disease Unit</b>	
<b>Reference Center in NMD</b>	State (CSUR) Red Europea (ERN) y XUEC (Red de Unidades Clínicas de expertos del Servei Català de Salut)
<b>Location / Contact</b>	Outpatients: Consultation building, 1st floor, Module 14. Hospitalization: Main building, Floor 9 Contact: <a href="https://bellvitgehospital.cat/ca/especialitats/neurologia">https://bellvitgehospital.cat/ca/especialitats/neurologia</a>
<b>Specialization in a neuromuscular disease</b>	
Disorders of the spinal roots; Nerve plexus diseases; Hereditary paraparesis; Hereditary ataxias Motor neuron disease; Neuropathies; Neuromuscular junction diseases; Myopathies	
<b>Professional team</b>	
<b>Referring physician. Unit Coordinator</b>	Mónica Povedano Panades <i>Head of Section / Neurophysiology, Motoneuron Unit</i>
<b>Specialized physicians and other health professionals</b>	Carlos Casasnovas Pons <i>Neurology, Neuromuscular Unit</i>  Raúl Domínguez <i>Neurology Neuromuscular Unit; Motor Neuron Unit</i>  Valentina Vélez Santamaría; Carla Marco Cazcarra; Laura González Mera; M Antonia Albertí Aguilo; Velina Nedkova Hristova <i>Neurology Neuromuscular Unit</i>
<b>Existence of Biobank or sample collection.</b>	Myopathies: Tissue; DNA
<b>Participation in a patient registry</b>	Pompe Patient Registry; CIBERER Registry; CuidAME

<b>Services and resources</b>		
<b>Available tests</b>	Pruebas de laboratorio	EMG

	<b>Genetics</b>	Genetics laboratory; Genetic counseling
<b>Medical units or specialties supporting NMD care</b>	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Speech therapy; Physical therapy; Occupational therapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Membership in a collaborative network or Scientific Society</b>		
Member of the Neuromuscular Diseases Group of the SEN.		
<b>Research projects</b>		
Myasthenia gravis, familial amyloid polyneuropathy, acquired amyloid polyneuropathy in patients with domino liver transplant, ALS, CIDP, X-linked adrenoleukodystrophy, SMA, etc.		

## Catalonia

<b>Hospital Vall d'Hebron</b>		
<b>Contact information:</b>		
Passeig de la Vall d'Hebron, 119		
08035	Barcelona	
Barcelona. Catalonia		
☎	932746100	
@	<a href="https://www.vallhebron.com/es/contacta">https://www.vallhebron.com/es/contacta</a>	
🌐	<a href="https://www.vallhebron.com/es">https://www.vallhebron.com/es</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Catsalut	<i>Vall d'hebron</i>
<b>Type of population served</b>	<input checked="" type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults

<b>Neuromuscular Disease Unit - Adults</b>	
<b>Reference Center in NMD</b>	State (CSUR), Autonomic
<b>Location / Contact</b>	Neurology Service, Neuromuscular Unit, Floor 1 Phone: 932746100 ext. 6415 Email: <a href="mailto:rjuntas@vhebron.net">rjuntas@vhebron.net</a>
<b>Specialization in a neuromuscular disease</b>	
Disorders of the spinal roots; Nerve plexus diseases; Motor neuron disease;	

Neuropathies; Neuromuscular junction diseases; Myopathies	
<b>Professional team</b>	
<b>Referring physician. Unit Coordinator</b>	Raul Juntas Morales <i>Area specialist (FEA) in Neurology</i>
<b>Specialized physicians and other health professionals</b>	María Salvadó Figueras <i>Area specialist (FEA) in Neurology</i>  Daniel Sánchez Tejerina <i>Neurology Area Specialist (FEA)</i>  Javier Sotoca <i>Neurology area specialist (FEA)</i>
<b>Existence of Biobank or sample collection.</b>	Motor Neuron Disease/Myopathies: Blood/Srm/Plm; Tissue; DNA
<b>Participation in a patient registry</b>	Spinal muscular atrophy Pompe disease

<b>Services and resources</b>		
<b>Available Tests</b>	Genetic Studies	Massive sequencing genetic techniques
	Laboratory tests	EMG; RMN body; Biopsia muscular abierta o con aguja
<b>Units or medical specialties supporting NMD care</b>	<b>Genetics</b>	Genetics laboratory; Genetic counseling
	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Speech therapy; Physical therapy; Occupational therapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
Member GEEN/SEN		
<b>Research projects</b>		
Biomarkers in ALS Research projects in myopathies such as titin		

### **Neuromuscular Diseases Unit - Childhood**

<b>Reference Center in NMD</b>	State (CSUR), Autonomic	
<b>Location / Contact</b>	<a href="https://www.vallhebron.com/es/consulta-el-mapa">https://www.vallhebron.com/es/consulta-el-mapa</a> Children's Hospital building on the first floor	
<b>Specialization in a neuromuscular disease</b>		
Motor neuron disease; Disorders of the spinal roots; Nerve plexus diseases; Neuropathies; Diseases of the neuromuscular junction; Myopathies		
<b>Professional team</b>		
<b>Referring physician. Unit Coordinator</b>	Francina Munell <i>Pediatric Neuromuscular Diseases Unit Coordinator</i>	
<b>Specialized physicians and other health professionals</b>	David Gómez Andrés <i>Pediatrics Area Specialist Physician (FEA)</i>  Laura Costa Cornellas <i>Pediatrics Area Specialist (FEA)</i>  Mireia Álvarez Molinero <i>Pediatrics area specialist physician (FEA)</i>	
<b>Existence of Biobank or sample collection.</b>	Neuropathies: <i>Blood/Srm/Plm; Tissue; DNA</i>	
<b>Participation in a patient registry</b>	Cuidame, National registry LAMA2	

<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive sequencing genetic techniques
	Laboratory tests	EMG; MRI body; open or needle muscle biopsy
<b>Medical units or specialties supporting NMD care</b>	<b>Genetics</b>	Genetics laboratory; Genetic counseling
	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Occupational therapy; Physiotherapy; Speech therapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		

SENEP
<b>Research projects</b>
ALS, hereditary myopathies, myasthenia gravis, neuropathies, neuropathies, etc

## Catalonia

<b>Hospital de Sant Joan Despí Moisès Broggi</b>	
<b>Contact information:</b>	
Carrer de Jacint Verdaguer, 12	
08970	Sant Joan Despí
Barcelona. Catalonia	
☎	935531200
@	NA
🌐	<a href="https://www.esplugues.cat/recursos-es/importacions/equipamientos/sanitat-i-salut/hospital-de-sant-joan-despi-moisès-broggi">https://www.esplugues.cat/recursos-es/importacions/equipamientos/sanitat-i-salut/hospital-de-sant-joan-despi-moisès-broggi</a>
<b>Ownership</b>	Public
<b>Territorial Scope</b>	Catalan Health Service <i>Baix Llobregat i L'Hospitalet de Llobregat</i>
<b>Type of population served</b>	<input type="checkbox"/> Children <input checked="" type="checkbox"/> Adults

<b>Neuromuscular Disease Unit</b>	
<b>Reference Center in NMD</b>	No
<b>Location / Contact</b>	Outpatient Hospital Hospital Moisès Broggi / Outpatient Hospital Hospital General Hospitalet
<b>Specialization in a neuromuscular disease</b>	
No specialization	
<b>Professional team</b>	
<b>Referring physician. Unit Coordinator</b>	Nuria Cayuela Caudevilla <i>Area specialist physician (FEA) Neurology</i>
<b>Existence of Biobank or sample collection.</b>	No
<b>Participation in a patient registry</b>	No

<b>Services and resources</b>	
<b>Available tests</b>	Laboratory tests EMG; open or needle muscle biopsy; MRI body
	<b>Genetics</b> Genetics laboratory; Genetic counseling

<b>Medical units or specialties supporting NMD care</b>	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Occupational therapy; Physiotherapy; Speech therapy
	<b>Ventilation Unit</b>	No
	<b>Family Cardiology Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Membership in a collaborative network or Scientific Society</b>		
Member GEEN/SEN		

## Catalonia

<b>Santa Creu i Sant Pau Hospital</b>		
<b>Contact information:</b>		
Carrer de Sant Quintí, 89		
08041	Barcelona	
Barcelona. Cataluña		
☎	935565986	
@	<a href="mailto:atencionsuari@santpau.cat">atencionsuari@santpau.cat</a>	
🌐	<a href="http://www.santpau.cat/es/web/public">http://www.santpau.cat/es/web/public</a>	
<b>Ownership</b>	Concerted	
<b>Territorial Scope</b>	Catalan Health Service	<i>Barcelona</i>
<b>Type of population served</b>	<input type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults

<b>Neuromuscular Disease Unit</b>	
<b>Reference Center in NMD</b>	State (CSUR), Autonomic
<b>Location / Contact</b>	Neurology Service, Neuromuscular Diseases Unit, 2nd floor, module 1, outpatients' department. Tlf: 935565986 Email: <a href="mailto:neuromuscular@santpau.cat">neuromuscular@santpau.cat</a>
<b>Specialization in a neuromuscular disease</b>	
Motor neuron disease; Neuropathies; Neuromuscular junction diseases; Myopathies; Disorders of spinal roots; Nerve plexus diseases	
<b>Professional team</b>	

<b>Referring physician. Unit Coordinator</b>	Montserrat Olivé Plana <i>Coordinator</i>
<b>Specialized physicians and other health professionals</b>	Ricard Rojas García <i>Specialist Physician (FEA) Neurology</i>  Luis Querol Gutierrez <i>Neurology area specialist (FEA)</i>  Joana Turon i Sans <i>Area specialist (FEA) in Neurology</i>
<b>Existence of Biobank or sample collection.</b>	Yes Myopathies, Neuropathies, Myasthenia gravis, ELA: DNA, Tissue, Blood/Srm/Plm;
<b>Participation in a patient registry</b>	Myasthenia Gravis Myopathies Neuropathies

<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive sequencing genetic techniques
	Laboratory tests	EMG; open or needle muscle biopsy; body MRI; MRI body
<b>Medical units or specialties supporting NMD care</b>	<b>Genetics</b>	Genetics laboratory; Genetic counseling
	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Occupational therapy; Physiotherapy; Speech therapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
Member GEEN/SEN; CIBERER; ERN-NMD;		
<b>Research projects</b>		
ALS, hereditary myopathies, myasthenia gravis, neuropathies, neuropathies, etc.		

## Catalonia

<b>Hospital Sant Joan de Déu</b>
<b>Contact information:</b>




Passeig de Sant Joan de Déu, 2		
08950	Esplugues de Llobregat	
Barcelona. Catalonia		
☎	932 53 21 00	
@	<a href="https://www.sjdhospitalbarcelona.org/es/contacta">https://www.sjdhospitalbarcelona.org/es/contacta</a>	
📄	<a href="https://www.sjdhospitalbarcelona.org/es">https://www.sjdhospitalbarcelona.org/es</a>	
<b>Ownership</b>	Concerted	
<b>Territorial Scope</b>	CatSalut	<i>Baix Llobregat</i>
<b>Type of population served</b>	<input checked="" type="checkbox"/> Children	<input type="checkbox"/> Adults

<b>Neuromuscular Diseases Unit - Childhood</b>	
<b>Reference Center in NMD</b>	State (CSUR); also part of the European Network (EURO-NMD) and the XUEC (network of expert clinical units of the Servei Català de Salut).
<b>Location / Contact</b>	Outpatients: Floor 4. Hospitalization: Floor 9. Phone: 91 378 26 00 <a href="https://www.sjdhospitalbarcelona.org/es/ninos/neurologia">https://www.sjdhospitalbarcelona.org/es/ninos/neurologia</a>
<b>Specialization in a neuromuscular disease</b>	
Motor neuron disease; Disorders of the spinal roots; Nerve plexus diseases; Neuropathies; Diseases of the neuromuscular junction; Myopathies	
<b>Professional team</b>	
<b>Referring physician. Unit Coordinator</b>	Andrés Nacimiento <i>Specialist Physician (FEA) Neurology</i>
<b>Specialized physicians and other health professionals</b>	Carlos Ignacio Ortez González <i>Neurology Area Specialist Physician (FEA)</i>
<b>Existence of Biobank or sample collection.</b>	Neuromuscular diseases in general: Responsible. Cristina Boix Lluch Blood/Srm/Plm; Tissue; Tissue; DNA; Liquid Biopsy
<b>Participation in a patient registry</b>	EURO-NMD; TREAT-NMD

<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive sequencing genetic techniques
	Laboratory tests	EMG; Needle or open muscle biopsy; MRI body; Nerve biopsy

<b>Medical units or specialties supporting NMD care</b>	<b>Genetics</b>	Genetics laboratory; Genetic counseling
	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Occupational therapy; Physiotherapy; Speech therapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
Member SENEP; Member SEN; Member WMS; European Association of Neuropediatrics; CIBER		
<b>Research projects</b>		
Duchunne gene therapy, Spinal muscular atrophy, Natural history (collecting patient information for future research): <a href="https://www.sjdhospitalbarcelona.org/es/neurologia-investigacion">https://www.sjdhospitalbarcelona.org/es/neurologia-investigacion</a>		

## Galicia

<b>Clinical Hospital. University Hospital Complex of Santiago (CHUS)</b>		
<b>Contact information:</b>		
Rúa da Choupana, S/N		
15706	Santiago de Compostela	
La Coruña. Galicia		
	981950000	
	NA	
	<a href="https://xxisantiago.sergas.es/Paxinas/web.aspx?tipo=paxtab&amp;idLista=3&amp;idContido=183&amp;migt=174%3B183&amp;idioma=es">https://xxisantiago.sergas.es/Paxinas/web.aspx?tipo=paxtab&amp;idLista=3&amp;idContido=183&amp;migt=174%3B183&amp;idioma=es</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Servicio Galego de Saúde	<i>Santiago de Compostela y Barbanza</i>
<b>Type of population served</b>	<input checked="" type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults

### Neuromuscular Disease Unit - Adults

<b>Reference Center in NMD</b>	Autonomic
<b>Location / Contact</b>	Neurology Service, Neuromuscular Disease Unit, Floor -1, Consultation 343 Tlf: 981950332
<b>Specialization in a neuromuscular disease</b>	
Motor neuron disease; Neuropathies; Neuromuscular junction diseases; Myopathies	
<b>Professional team</b>	
<b>Referring physician. Unit Coordinator</b>	Julio Pardo Fernández <i>Coordinator of the multidisciplinary unit of ALS and Neuromuscular Diseases.</i>
<b>Specialized physicians and other health professionals</b>	Tania García Sobrino <i>Neurologist Dr. in medicine</i>
<b>Existence of Biobank or sample collection.</b>	Amyotrophic Lateral Sclerosis (ALS): <i>Blood/Srm/Plm; DNA</i>
<b>Participation in a patient registry</b>	Spanish Registry of Neuromuscular Diseases (NMD-ES)



<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive sequencing genetic techniques
	Laboratory tests	EMG; Needle or open muscle biopsy; Body MRI; Skin biopsy
<b>Medical units or specialties supporting NMD care</b>	<b>Genetics</b>	Genetics laboratory; Genetic counseling
	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Physical therapy; Speech therapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
Member of GEEN/SEN, Expert Committee of AMES (Spanish Myasthenia Association) FSHD-SPAIN Association (Facioscapulo-humeral dystrophy) Member of the Socio-sanitary Committee of the Fundación Luzón unidos contra la ELA (Foundation United against ALS)		
<b>Research projects</b>		
ALS, Charcot-Marie-Tooth Disease, Myasthenia Gravis		

<b>Neuromuscular Diseases Unit - Childhood</b>	
<b>Reference Center in NMD</b>	No
<b>Location / Contact</b>	Neuropediatric Consultations
<b>Specialization in a neuromuscular disease</b>	
Motor neuron disease; Disorders of the spinal roots; Nerve plexus diseases; Neuropathies; Diseases of the neuromuscular junction; Myopathies	
<b>Professional team</b>	
<b>Referring physician. Unit Coordinator</b>	Jesús Eiris Puñal <i>Head of the Neuropediatrics Unit.</i>
<b>Existence of Biobank or sample collection.</b>	Myopathies: Tissue; DNA
<b>Participation in a patient registry</b>	No

<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive sequencing genetic techniques
	Laboratory tests	EMG; Needle or open muscle biopsy; Skin biopsy
<b>Medical units or specialties supporting NMD care</b>	<b>Genetics</b>	Genetic laboratory; Genetic counseling
	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Physical therapy; Speech therapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
SENEP		
<b>Research projects</b>		
No		

## Basque Country

<b>Cruces University Hospital</b>
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<b>Contact information:</b>		
Plaza de Cruces, S/N		
48903	Barakaldo	
Vizcaya. Basque Country		
	946006000	
@	<a href="mailto:hospitalde.cruces@osakidetza.eus">hospitalde.cruces@osakidetza.eus</a>	
	<a href="https://www.osakidetza.euskadi.eus/entidad/hospital-universitario-cruces/ab84-cerbus/es/">https://www.osakidetza.euskadi.eus/entidad/hospital-universitario-cruces/ab84-cerbus/es/</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Osakidetza	OSI-Ezkerraldea Enkarterri Cruces
<b>Type of population served</b>	<input type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults

<b>Neuromuscular Disease Unit</b>		
<b>Reference Center in NMD</b>	Provincial	
<b>Location / Contact</b>	Neurology Service, Neuromuscular Section Tlf: 946006567 ext. 6568 Email: <a href="mailto:necretaria.neurologiacruces@osakidetza.eus">necretaria.neurologiacruces@osakidetza.eus</a>	
<b>Specialization in a neuromuscular disease</b>		
Diseases of the neuromuscular junction; Neuropathies; Myopathies		
<b>Professional team</b>		
<b>Referring physician. Unit Coordinator</b>	José Eulalio Bárcena Llona <i>Head of Section</i>	
<b>Specialized physicians and other health professionals</b>	Amaia Jauregi Barrutia <i>Neurology Specialist Physician (FEA)</i>	
<b>Existence of Biobank or sample collection.</b>	Myopathy: Tissue; DNA	
<b>Participation in a patient registry</b>	Spanish Neuromuscular Disease Registry (NMD-ES). Pompe disease registry	

<b>Services and resources</b>		
<b>Available tests</b>	Laboratory tests	Needle or open muscle biopsy
	<b>Genetics</b>	Genetic laboratory; Genetic counseling
<b>Medical units or specialties supporting NMD care</b>	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Occupational therapy; Physiotherapy; Speech therapy

	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Membership in a collaborative network or Scientific Society</b>		
Member GEEN/SEN;		
<b>Research projects</b>		
Myotonic dystrophy		

## Basque Country

<b>Hospital Universitario Donostia</b>		
<b>Contact information:</b>		
Begiristain Doktorea Pasealekua, s/n		
20014	San Sebastián	
Guipúzcoa. Basque Country		
	943007000 Fax: 943007233	
@	OSID.GERENTZIA@osakidetza.eus	
	<a href="https://www.osakidetza.euskadi.eus/entidad/hospital-universitario-donostia/ab84-cerbus/es/">https://www.osakidetza.euskadi.eus/entidad/hospital-universitario-donostia/ab84-cerbus/es/</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Osakidetza	OSI-Donostialdea
<b>Type of population served</b>	<input type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults



<b>Neuromuscular Disease Unit</b>		
<b>Reference Center in NMD</b>	Autonomic	
<b>Location / Contact</b>	Amara Building - Neurology Outpatient Clinic Phone: 943007027	
<b>Specialization in a neuromuscular disease</b>		
Motor neuron disease; Myopathies; Neurogenetics		
<b>Professional team</b>		
<b>Referring physician. Unit Coordinator</b>	Adolfo López de Munain <i>Head of the Neurology Service-Director of the Neurosciences Area of the Biodonostia Institute</i>	

<b>Specialized physicians and other health professionals</b>	Juan José Poza Aldea <i>Neurology Area Specialist Physician (FEA)</i>  Roberto Fernández-Torrón <i>Neurology Area Specialist (FEA)</i>  Juan Bautista Espinal Valencia <i>Neurology Area Specialist Physician (FEA)</i>
<b>Existence of Biobank or sample collection.</b>	All Neuromuscular diseases: Blood/Srm/Plm;Tissue; DNA; RNA.
<b>Participation in a patient registry</b>	Dystrophies

<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive sequencing genetic techniques
	Laboratory tests	EMG; Needle or open muscle biopsy; Body MRI; Cultures
<b>Medical units or specialties supporting NMD care</b>	<b>Genetics</b>	Genetics laboratory; Genetic counseling
	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Physiotherapy; Speech therapy; Occupational therapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
Member GEEN/SEN; CIBERNED Committee of Experts of the ASEM Federation;		
<b>Research projects</b>		
Muscular dystrophies and ALS		

## Basque Country

<b>Hospital Universitario Basurto</b>	
<b>Contact information:</b>	
Av. Montevideo, S/N	
48013	Bilbao

Vizcaya. Basque Country		
	944006094 608709459	
@	NA	
	<a href="https://www.osakidetza.euskadi.eus/portada-osi-bilbao-basurto/">https://www.osakidetza.euskadi.eus/portada-osi-bilbao-basurto/</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Osakidetza	OSI-Bilbao
<b>Type of population served</b>	<input type="checkbox"/> Children	<input checked="" type="checkbox"/> Adultos

<b>Neuromuscular Disease Unit</b>		
<b>Reference Center in NMD</b>	No	
<b>Location / Contact</b>	abellón Ampuero - 1st Floor Phone: 608709459 Email: neuromuscular.osibilbaobasurto@osakidetza.eus	
<b>Specialization in a neuromuscular disease</b>		
Motor neuron disease; Myopathies; Neuromuscular junction diseases; Neuropathies		
<b>Professional team</b>		
<b>Referring physician. Unit Coordinator</b>	Solange Kapetanovic García <i>Coordinator of the area of other neuromuscular diseases</i>	
<b>Specialized physicians and other health professionals</b>	Luis Varona Franco <i>ALS Unit Coordinator</i> Patricia Rodrigo Armenteros <i>Specialist physician in the area (FEA) Neurology</i>	
<b>Existence of Biobank or sample collection.</b>	ALS, hereditary amyloidosis, myasthenia, hereditary muscle diseases: Blood/Srm/Plm; DNA; Tissue.	
<b>Participation in a patient registry</b>	Hereditary amyloidosis Pompe disease	

<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive sequencing genetic techniques.
	Laboratory tests	EMG; MRI body; open or needle muscle biopsy
<b>Medical units or specialties</b>	<b>Genetics</b>	Genetics laboratory; Genetic counseling
	<b>Neurophysiology</b>	Neurophysiological studies

<b>supporting NMD care</b>	<b>Rehabilitation</b>	Occupational therapy; Physiotherapy; Speech therapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
Member GEEN/SEN; CIBERER		
<b>Research projects</b>		
Utility of the transcriptome in neuromuscular diseases (FIS), Utility of NGS in the dx of hereditary muscle diseases (BIOEF), Hereditary amyloidosis and wt, Multiple clinical trials in ALS, myasthenia gravis and hereditary amyloidosis.		

## Principality of Asturias



<b>Hospital Universitario de Cabueñes</b>		
<b>Contact information:</b>		
Calle de los Prados, 395		
33203	Gijón	
Principality of Asturias		
☎	985185000	
@	NA	
🌐	<a href="https://www.astursalud.es/noticias/-/noticias/hospital-de-cabuen-1">https://www.astursalud.es/noticias/-/noticias/hospital-de-cabuen-1</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Health Service of the Principality of Asturias	<i>District 2, Sanitary Area V</i>
<b>Type of population served</b>	<input type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults

<b>Neuromuscular Disease Unit</b>	
<b>Reference Center in NMD</b>	No
<b>Location / Contact</b>	Outpatients Building, Consultation 213 Phone: 985185000, ext. 8589
<b>Specialization in a neuromuscular disease</b>	

No specialization	
<b>Professional team</b>	
<b>Referring physician. Unit Coordinator</b>	Manuel Díaz González <i>Neurology Specialist Physician (FEA)</i>
<b>Specialized physicians and other health professionals</b>	Javier Granda Méndez <i>Specialist physician (FEA) in Neurology</i>
<b>Existence of Biobank or sample collection.</b>	No
<b>Participation in a patient registry</b>	No

<b>Services and resources</b>		
<b>Units or medical specialties supporting NMD care</b>	<b>Genetics</b>	Genetics laboratory; Genetic counseling
	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Speech therapy; Physical therapy; Occupational therapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
Member GEEN/SEN		

## Principality of Asturias

<b>Central University Hospital of Asturias</b>		
<b>Contact information:</b>		
Av. Roma S/N		
33011	Oviedo	
Principality of Asturias		
	985108000	
@	NA	
	<a href="http://www.hca.es/huca/web/index.asp">http://www.hca.es/huca/web/index.asp</a>	
<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Servicio de Salud del Principado de Asturias	<i>Health area IV</i>

<b>Type of population served</b>	<input checked="" type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults
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<b>Neuromuscular Disease Unit</b>	
<b>Reference Center in NMD</b>	Autonomic
<b>Location / Contact</b>	2nd floor Phone: 985108000 ext. 37788 Email: neurologia.area4@sespa.es
<b>Specialization in a neuromuscular disease</b>	
Motor neuron disease; Neuropathies; Neuromuscular junction diseases; Myopathies	
<b>Professional team</b>	
<b>Referring physician. Unit Coordinator</b>	Germán Morís de la Tassa <i>Head of Section</i>
<b>Existence of Biobank or sample collection.</b>	Neurodegenerative diseases: Tissue; DNA
<b>Participation in a patient registry</b>	Neuromuscular diseases




<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	Massive genetic sequencing techniques
	Laboratory tests	EMG; open or needle muscle biopsy; MRI body
<b>Medical units or specialties supporting NMD care</b>	<b>Genetics</b>	Genetics laboratory; Genetic counseling
	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Speech therapy; Physical therapy; Occupational therapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
Member GEEN/SEN		

<b>Neuromuscular Diseases Unit - Childhood</b>	
<b>Reference Center in NMD</b>	Provincial; Autonomic
<b>Location / Contact</b>	Neuropediatrics Unit. Pediatrics Outpatients.

	Office 11 Phone: 985108000
<b>Specialization in a neuromuscular disease</b>	
No specialization	
<b>Professional team</b>	
<b>Referring physician. Unit Coordinator</b>	Ignacio Málaga Diéguez <i>Head of the Neuropediatrics Unit.</i>
<b>Existence of Biobank or sample collection.</b>	Multiple: Blood/Srm/Plm; Tissue; DNA.
<b>Participation in a patient registry</b>	Yes

<b>Services and resources</b>		
<b>Available tests</b>	Genetic Studies	
	Laboratory tests	Needle or open muscle biopsy
<b>Medical units or specialties supporting NMD care</b>	<b>Genetics</b>	Genetics laboratory; Genetic counseling
	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Speech therapy; Physical therapy; Occupational therapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia Unit</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
SENEP, EPNS;		
<b>Research projects</b>		
Spinal Muscular Atrophy		

## Region of Murcia

<b>Virgen de la Arrixaca University Hospital</b>	
<b>Contact information:</b>	
Ctra. Madrid-Cartagena, s/n	
30120	El Palmar
Murcia. Murcia	
	968 36 95 00
	NA
	<a href="http://www.murciasalud.es/seccion.php?idsec=347">http://www.murciasalud.es/seccion.php?idsec=347</a>

<b>Ownership</b>	Public	
<b>Territorial Scope</b>	Murcian Health Service	<i>Health Area 1. Murcia - West</i>
<b>Type of population served</b>	<input type="checkbox"/> Children	<input checked="" type="checkbox"/> Adults

<b>Neuromuscular Disease Unit</b>		
<b>Reference Center in NMD</b>	Provincial	
<b>Location / Contact</b>	Telephone switchboard: 968 365 900	
<b>Specialization in a neuromuscular disease</b>		
No specialization		
<b>Professional team</b>		
<b>Referring physician. Unit Coordinator</b>	Antonio Moreno Escribano <i>Specialist Physician (FEA) Neurology</i>	
<b>Existence of Biobank or sample collection.</b>	Neuromuscular diseases in general: Blood/Srm/Plm; Tissue	
<b>Participation in a patient registry</b>	No	

<b>Services and resources</b>		
<b>Available tests</b>	Pruebas de laboratorio	EMG; Needle or open muscle biopsy
<b>Medical units or specialties supporting NMD care</b>	<b>Neurophysiology</b>	Neurophysiological studies
	<b>Rehabilitation</b>	Occupational therapy; Physical therapy
	<b>Ventilation Unit</b>	Yes
	<b>Family Cardiopathy Unit</b>	Yes
	<b>Dysphagia</b>	Yes
<b>Other information of interest</b>		
<b>Membership in a collaborative network or Scientific Society</b>		
Member GEEN/SEN		
<b>Research projects</b>		
No		