

for rare or low prevalence complex diseases

Network Neuromuscular Diseases (ERN EURO-NMD)

7th ERN EURO-NMD ANNUAL MEETING

NBS – Patients perspective

21st – 23rd February 2024

Marie-Christine Ouillade







Marie-Christine Ouillade

- Volunteer at AFM Telethon for more than 20 years
- Mum of a 30 years old lady affected by SMA (Spinal Muscular Atrophy)
- Member of AFM TELETHON and GENETHON Board
- Member of SMA Europe board
- Chair of the SMA NBS Alliance



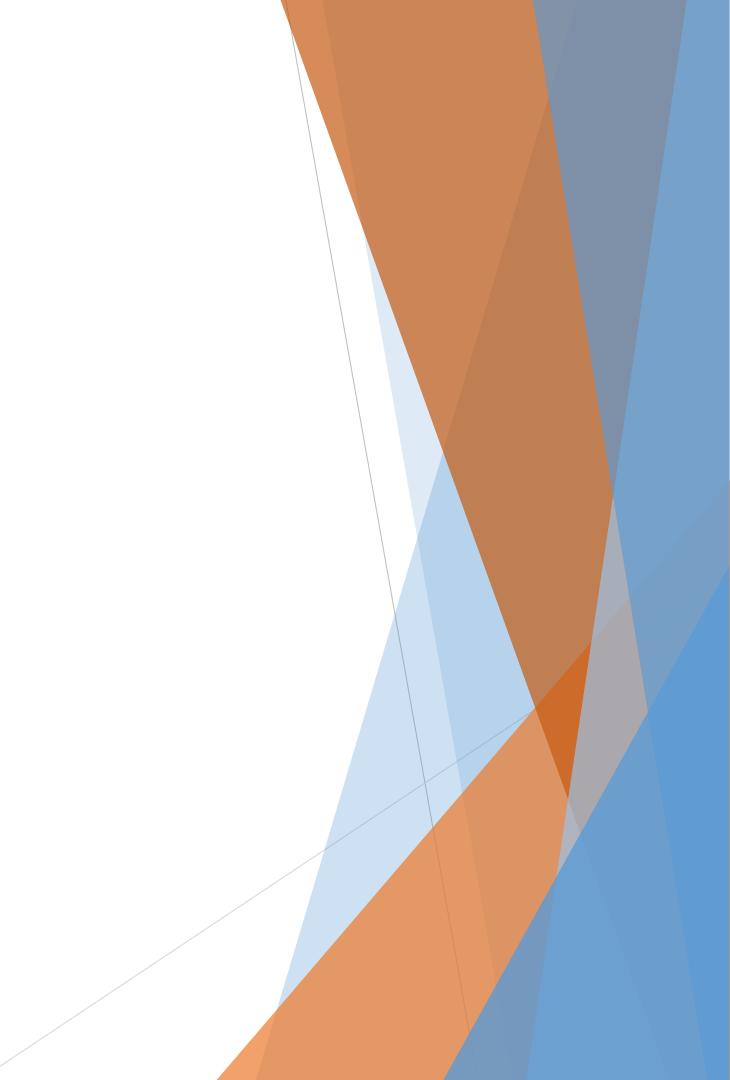


Agenda

Patient / parent point of view

- Paediatric disaeses
- Adult disaeses
- Current situation of NBS in Europe
 - Regulatory
 - Access to NBS
 - Health economy
- Patient organisation proposal





Parent of young patients point of view





Diagnosis in Paediatric neuromuscular diseases

- SMA, Duchenne, LGMD
- er discover. , rotective , other imagination "Don't worry each child has i few years progression" Child regression Identify the right where Series of en a few years Genetic perwher 'mplementatior ment if Mother or father discovers some things is

 - Implementation of standard of care and treatment if available
 - Genetic counselling

- SMA NBS 2 or 3 copies of SMN2
- 10 days
- Treatment
- Genetic counselling



SMA : today 70% of European babies are screened at birth

- 30% of babies are not screened
- In France
- and have no access to in parents and have no access to in parents treatment just parent care due to the time logic gnosis
- d. LaDilities

- ► 70% of babies screen
- In Germany
 - Less than 3% of 2 SMN2 copies babies died before the age of 2 years
 - 50% of 2 SMN2 copies babies shows light symptoms at birth
 - No disabilities at the age of 3 years old for 3 SMN2 copies babies
 - 4 SMN2 copies babies are treated at birth



Diagnosis in the neuromuscular domain Adult neuromuscular diseases

- Steinert, Myastenia ...
- No need of NBS
- Important need to shorten and secure the diagnosis pathway



NBS : current situation in Europe





Regulatory situation : NBS is state relevant

- Lack of clear process to apply for a new disease in many countries
- Limited capacity for a PAG to advocate
 - Access to key arguments
 - No identified pathway
- Genetic testing
 - ▶ Ethical
 - ► Technics
- Procedural delays and efficiency
- In some area as Spain it's region relevant
 - Huge difference and inequity through Europe





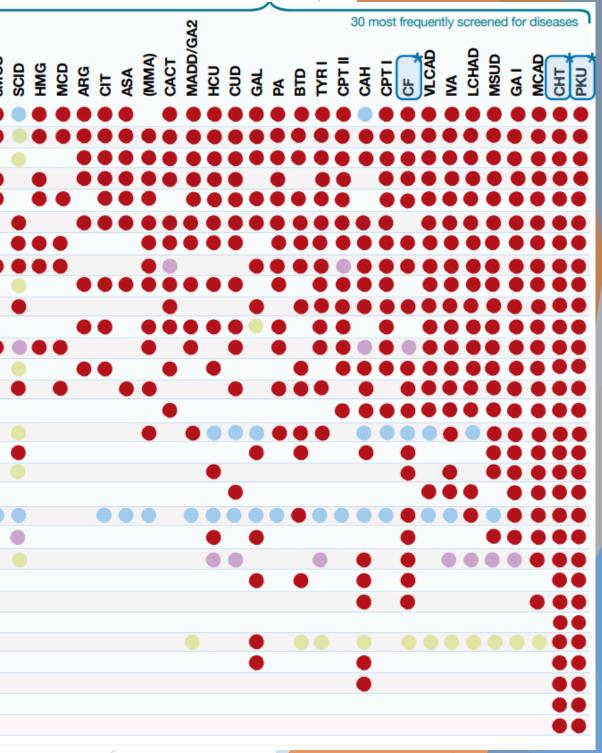


Mance

Whitepaper Version 2, 25 November 2021 European Alliance for Newborn Screening in SMA

Access in dec 2022

Part of Pilot p ongoir within	f national program f regional program program to be started/ ng/completed 10 years mmended for inclusion	Number of tests in all regions	Number of tests in national panel only	than than than than than than the second sec	1 in 1	_	ALD 3	FABRY	BIOPT (BS)	BIOPT (REG)	2MBG	MAL TVB III	GNMT	SAHH	3MGCA	2M3HBA	SCAD IRG	2 2 2	ORN	GGPD	A-T	B-T CALK	Cbl A/B	M / SCHAD	MTHFR	H-PHE	CbI C/D	MAT	SCD	BKT	TFP	3MCC
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2	Poland	33	29)																								
3	Austria	31	29																							•	•	۲				
4	Portugal	31	29																							•		۲				
5	Hungary	28	27																													
6	Sweden	26	26																											•		
7	Norway	26	26																											•		
8	Netherlands	31	25																											•		
9	Finland	24	23																													
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14	Denmark	19	18																													
15	Slovakia	14	13																													
16	Belgium	23	11																													
17	Switzerland	10	10																													
18	UK	11	9																													
19	Croatia	9	9																												•	
20	Spain	41	8)								(• (
21	Ireland	9	8																													
22	France	15	6																													
23	Latvia	7	6																													
24	Luxembourg	5	5																													
25	Malta	5	5																													
26	Greece	16	4																													
27	Lithuania	4	4																													
28	Bulgaria	4	4																							•						
29	Cyprus	2	2																													
30	Romania	2	2																													



Health economic SMA NBS studies

Efficiency is country dependant All studies shows a positive balance to NBS at 3 to 5 years

Without NBS

- Time for diagnosis
- Cost of treatment
- Long life follow up
- Permanent disability
- Impact on family life
 - Caregiver work
 - House and car equipment
- Access to school, work

With NBS

- Cost of NBS
- Cost of treatment
- Long term follow up

AFM**TÉLÉTHON**



NM Patient organisation proposals





Recommandation

At EU/international level

- International recommendation for a panel of diseases to EU states
- Revision of Wilson and Jungner's principles
- Address also actionable pediatric genetic diseases

Multi diseases testing technics

At national level

- Unique panel in the country
- Clear pathway to apply for a new disease
- PO must be include in the decision pathway



Thanks to :

SMA EUR OPE













Questions



