



**SMA
NBS Alliance**

European Alliance for Newborn Screening in SMA

Why did SMA Europe decide to create an Alliance ?

- February 2020 : Evry Congress evidence

Test at birth, save a life

- NBS in SMA prevents family burden
 - Disabilities by reducing time between first symptoms and diagnosis
 - Mother / parent guilt
- Complexity to go to NBS in all the European countries
 - One dossier per country, sometime per region

= > SMA NBS ALLIANCE support national stakeholder to apply for SMA NBS

SMA: Test at birth, save a life.



Identifying children living with SMA when pre-symptomatic through NBS allows for treatment to be started on time, preventing motor neuron death and a life with severe disabilities.

Alliance Members

Founding member



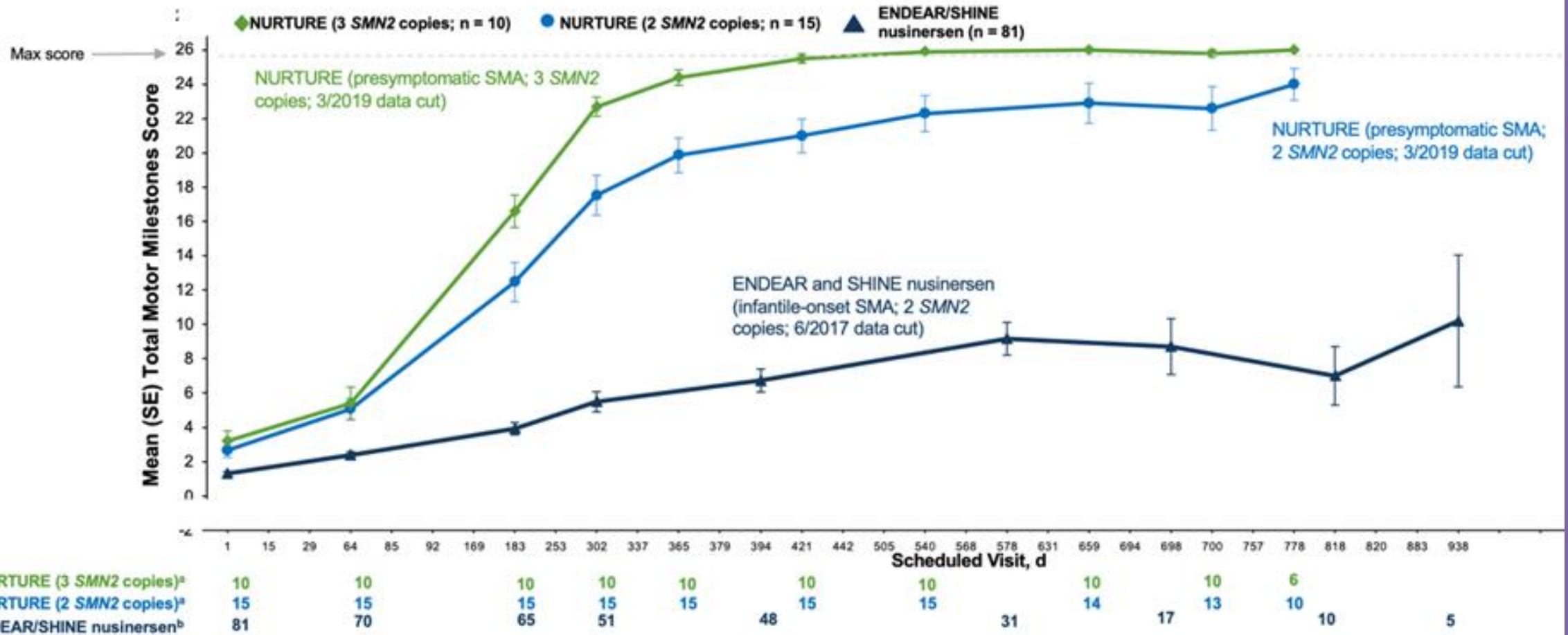
Members



Secretariat support by

admedicum
Business for Patients

Why do we need NBS?



Alliance first steps

- August 2020 launch of the Alliance
 - Communication support :
 - Policy paper
 - Flyer
- Steering committee
 - Need to collect and gather all the scientific evidence in a unique document
 - Identify best experts
 - Identify and deal with gaps
 - Prevent multiple local pilot trials
- Organising Workshops
 - “Whom to treat?”
- Writing the Whitepaper: **SMA, Screen at birth, save lives**



Why do we need a Whitepaper?

- To accelerate access in the European countries
- NBS is country relevant
 - => You have to prepare an application in each country even in the European Union
- The questions are always the same
 - => we need to collect all useful document and gather them into a unique paper
- Each country wanted their own pilot
 - => gather all the result of the different European pilots

Objective : Accelerate access in the different countries

Whitepaper structure

- SMA fulfils the Wilson and Juenger criteria
- Organising the main publications on the topic to makes them available for each country
- Acknowledging the different questions where there's no consensus
- Find a way to answer it

Whitepaper: some discussions

- Whom to treat ?
 - Workshop between main clinician of the field

No. of SMN2 copies	No symptoms	Mild symptoms	Severe symptoms
1	DMT	BSC+DMT	BSC only
2	DMT	BSC+DMT	BSC only
3	DMT	BSC+DMT	BSC and revisit genetic findings
≥ 4	DMT (define monitoring and potential start of DMT)	BSC+DMT	BSC and revisit genetic findings (check for modifiers)

Whitepaper: cost-effectiveness

- Cost of a case finding
 - Easy to include into the current NBS program
 - Additional cost per baby between 3-5 €
- Challenging discussion : price of treatment
 - Additional cost of treatment
 - 2 or 3 copies is mainly additional weeks or month , easily balance by the reduction of disabilities
 - 4 copies ?

Whitepaper: NBS process

- Six main components :
 - Education
 - Screening
 - Diagnosis
 - Management
 - Follow-up
 - Evaluation
- Each country has its own way to address them

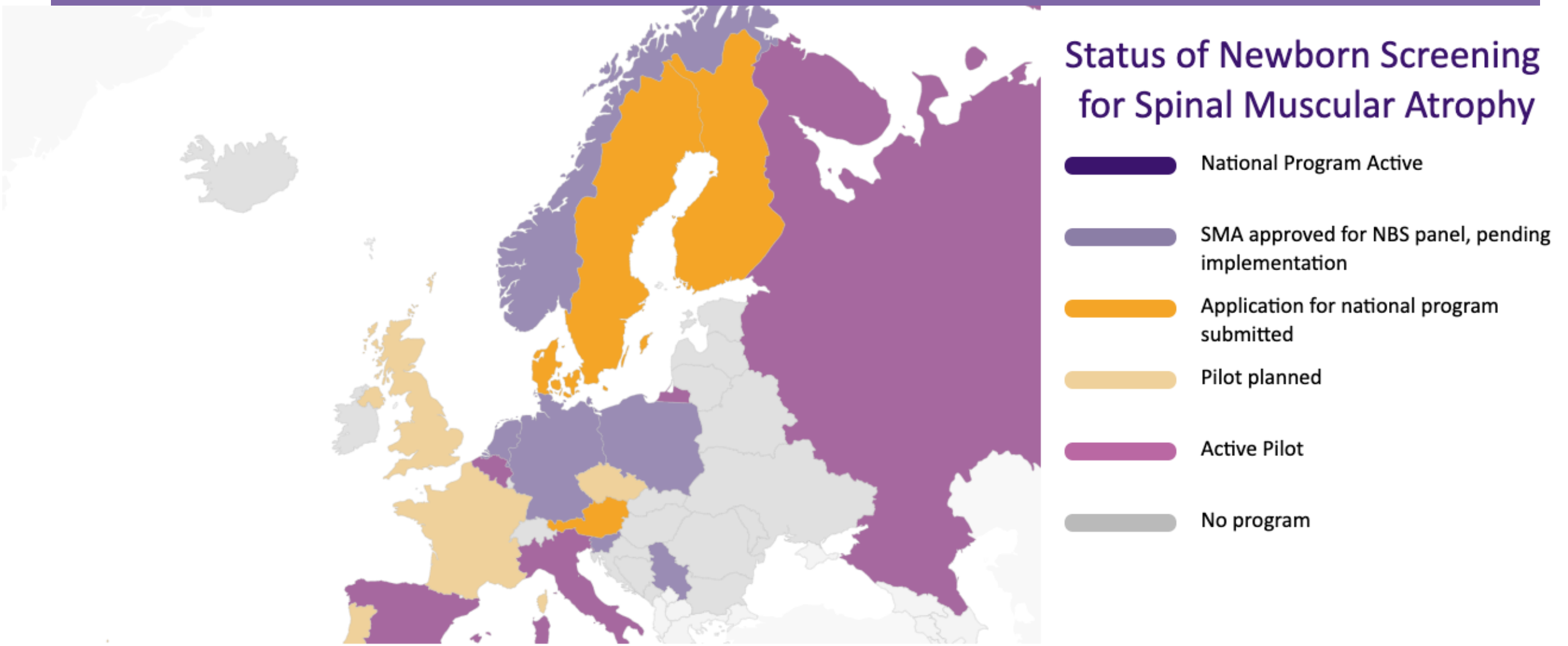
Whitepaper: Ethical issues

- UN : Right of the child to have optimal care
- NBS address babies 2-3 days after birth
- Equal access in the EU
- Parental guilt
- Right not to know
- False positive / false negative

website : www.sma-screening-alliance.org



Current : Status of NBS for SMA in Europe



What will happen now?

- Dissemination of the Whitepaper
 - Launching
 - Translation in different languages
- State by state support
 - SMA Europe survey
 - Workshops on bottlenecks
- Tool to support EURORDIS' actions
 - NBS shall be EU relevant

=> All the information available on our Website



Can all rare diseases duplicate SMA NBS Alliance?

- We need to simplify the track to include a new disease in NBS
 - EU shall propose a support for national entities to decide
- We need to accelerate the number of diseases screened for at birth
 - More and more effective treatments will be on the market
 - Early treatment will save life
- Adding a specific test each time will become unaffordable for the national insurance
 - We need to think genetic screening more broadly
 - We need to prevent accidental finding
 - We need to preserve if possible the right “not to know” for parents



Thanks