

SMA Core Dataset Workshop 2022

7 December 2022
Fairmont Waterfront Hotel,
Vancouver

TREAT-NMD

Workshop Agenda



Time	Session Description	Presenter
13.15	Welcome and meeting objectives	Julie / Jess
13.30	Ice – Breaker and curator introductions	Jess
14.00	TREAT-NMD 2022 update	Neil
14.15	Year 3 Annual Report - highlights	Julie
14.30	Registry Case Study – UK Patient Registry PROMS	Lindsay
14.40	Core Dataset – success and lessons learnt	All
15.30	Coffee Break	
15.45	Group Activities – Group A, B ,C D (20 min)	Julie / Jess
16.05	Feedback session (10 mins per group)	All
16.45	Looking Ahead priorities for 2023	Julie / Jess
17.10	What are the Take-Home Messages	Julie / Jess
17.30	Close Session	



Welcome & Introductions



Julie Bohill
Project Manager



Jess PageProject Coordinator



Victoria Hodgkinson SMA Sub-group Lead, Executive Director of NMD registry



Miriam Rodrigues SMA Sub-group Lead, Neurogenetic Research Lead, New Zealand



Marcel Heidemann
IT Consultant



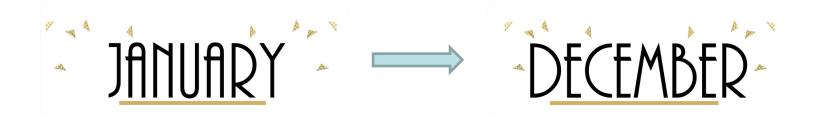
Our Aims

- Update on TREAT-NMD activities
- Highlights from Year 3 Annual Curator survey
- Review what's going well with data collection
- > Discuss the key challenges with dataset roll-out
- Share experiences and best practice
- ➤ Agree priorities for 2023 and next steps





Ice-breaker



- Please order yourself in line by birth month!
- Now introduce yourself to the person on either side of you





Registry Introductions

Please stand up and state:

- Your name
- Country
- Are you representing Clinician / Patient /Dual reported registry?
- SMA specific or general NMD Registry?
- What is your population? (i.e. paediatric, adult)
- What you hope to get out of today?



TREAT-NMD & Global Registry Network Update

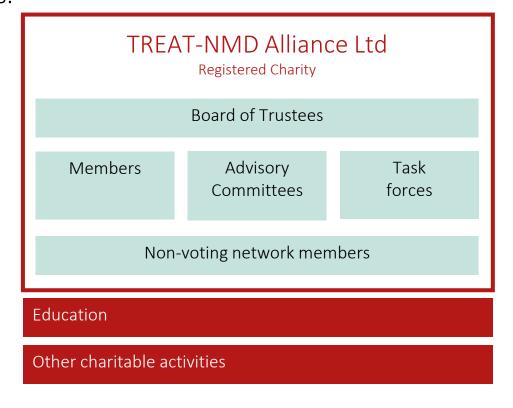
NEIL BENNETT

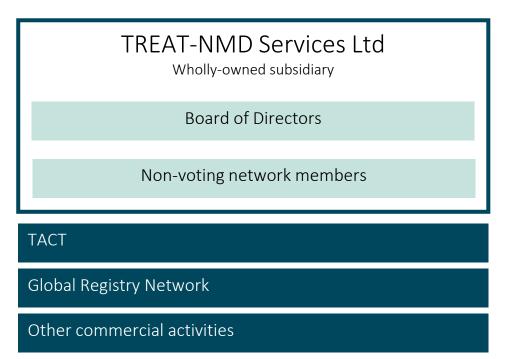
TREAT-NMD GLOBAL REGISTRIES MANAGER



Consolidating TREAT-NMD's not for profit status

TREAT-NMD Alliance Ltd is a registered charity with a wholly-owned business arm called TREAT-NMD Service Ltd. The companies are owned by the network, and work to drive forward the network's aims.







Our vision

To accelerate the development of effective treatments and to establish best practice diagnosis and care for neuromuscular patients worldwide.

Our mission

To operate a collaborative, inclusive global network and organisational infrastructure that will overcome fragmentation, providing support services, information and data to advance treatment, diagnosis and care for neuromuscular patients globally.

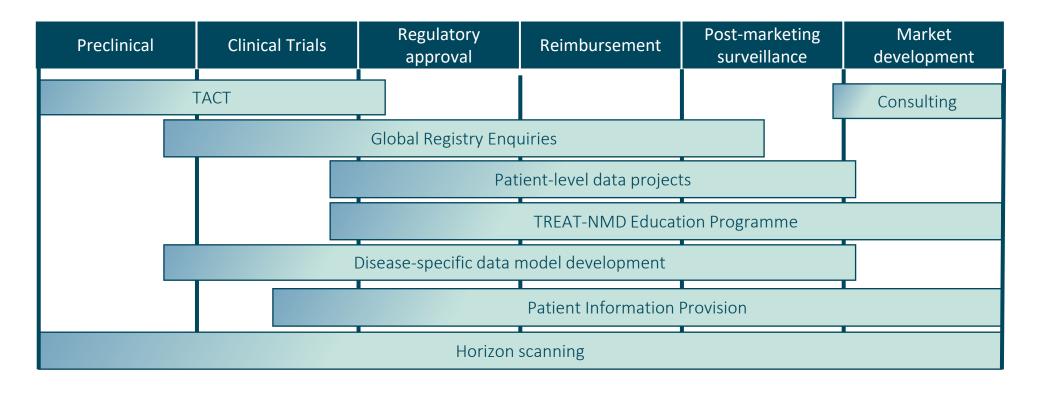
Our goals

- Leverage and expand our global reach
- Provide the 'go to' tools and services to support each stage of translational research
- Provide educational tools to improve diagnosis, treatment and care
- Facilitate agreement and adoption of standardised care guidelines, pre-clinical models, outcome measures and disease-specific datasets
- Further de-risk and accelerate the development of therapies by extending our advisory committees and enquiries processes
- Raise our profile and that of the neuromuscular disease areas we serve
- Facilitate best practice in data collection and become the 'go to' provider of NMD data to support evaluation, approval and post authorisation requirements of new treatments



De-risking and accelerating drug development

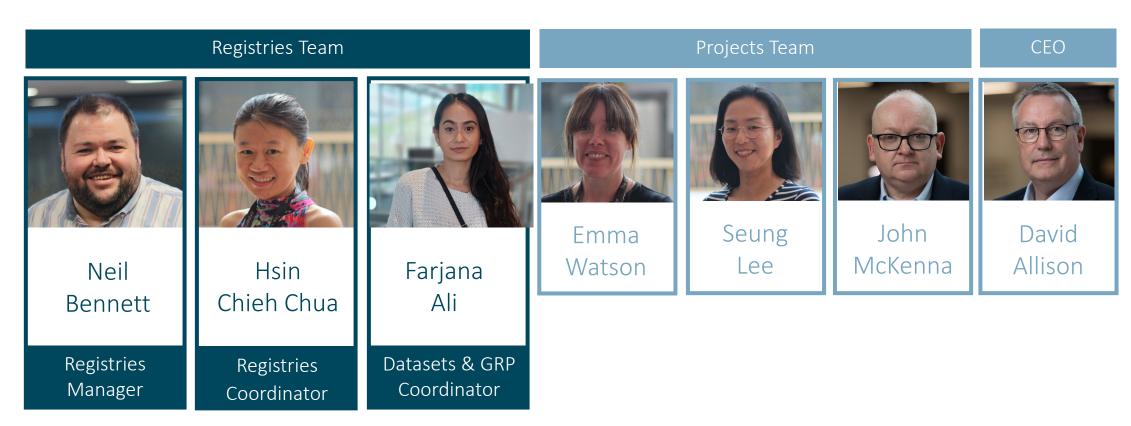
TREAT-NMD has several complimentary work streams that support drug development and bring new treatments to patients as quickly as possible





Key registry contacts at TREAT-NMD

TREAT-NMD has several complimentary work streams that support drug development and bring new treatments to patients as quickly as possible





Any questions?





This year's highlights – supporting registries

- Refreshed registry enquiries costing matrix
- Supported conference abstract writing and poster production
- Changed enquiry contract to better represent registries



This year's highlights – registry activity

- Completed one SMA Registry Enquiry
- Agreed contract for first post-authorisation study
- Started one disease landscaping study
- Working on a hypothesis generation study for a post-authorisation study



This year's highlights - behind the scenes

- Totally rebuilding the TREAT-NMD website
- Totally rebuilding the Monday.com boards
- Compliance, documentation and staff training etc



Next year...

- Registry summary publication
- Working with subgroups to address research questions
- Reviewing registry reimbursement
- Taking global registry platform to the next level



TREAT-NMD Neuromuscular Network

Any questions?



18 TREAT-NMD

SMA dataset journey



V0 (2009) (29 data items)

V1 (2018)

(167 data items)

Current V2 (2020) (154 data items)

Future revision V3 (??)

ī

May '23 Project End



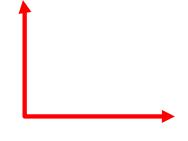
2017: Decision to expand

- Workshop 1
- Pilot (10 registries)



2019:

Start of phased Implementation



Phased Implementation

Year 1 (2019): n= 8 registries Year 2 (2020): n= 8 registries

Year 3 (2021) : n= 4 registries

Year 4 (2022) : n = tbc

SMA Core Dataset (V2)



154 Data Items ...

Mandatory: 117 (CR), 91 (PR)

Non-Mandator: 37

Mandatory Items

Non-mandatory Items

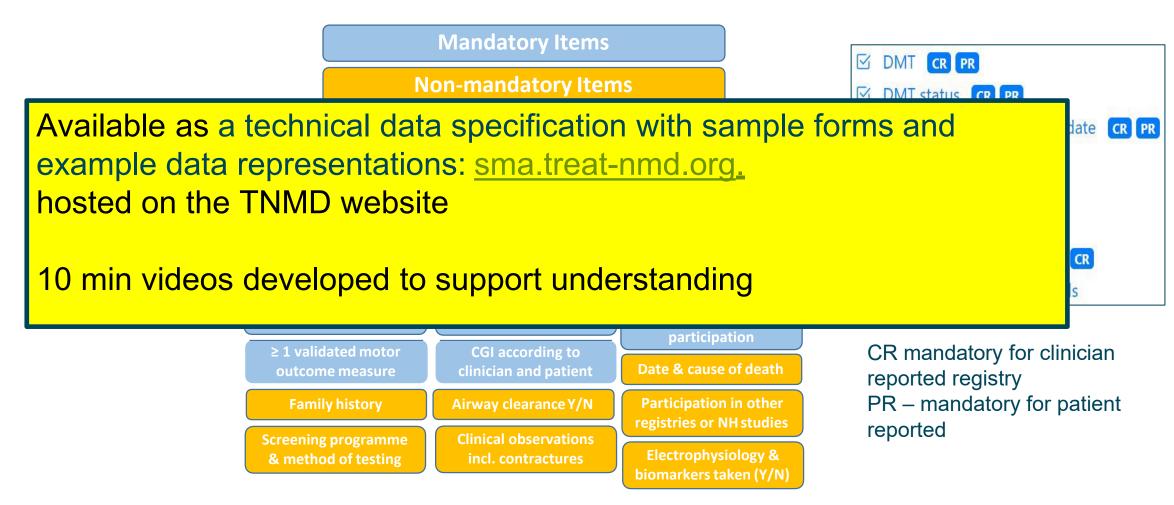
PPRL items	DOB, Sex, Country	Living status	
Genetic diagnosis	SMA type & onset age	Wheelchair use	
SMN2 copies	Best & current motor	Feeding tube use	
Scoliosis / surgery	function extended Disease-modifying	IV & NIV use	
FVC results if done	therapies	Therapeutic	
Hospitalisations &	Medication and	interventions	
co-morbidities	rehabilitation	Clinical trial participation	
≥ 1 validated motor outcome measure	CGI according to clinician and patient	Date & cause of death	
Family history	Airway clearance Y/N	Participation in other registries or NH studies	
Screening programme	Clinical observations		
& method of testing	incl. contractures	Electrophysiology & biomarkers taken (Y/N)	

✓ DMT CR PR
 ✓ DMT status CR PR
 ✓ DMT single administration date CR PR
 ✓ DMT stopping reason CR
 ✓ DMT dosage value CR
 ✓ DMT dosage unit CR
 ✓ DMT administration route CR
 ✓ DMT administration intervals

- cr items are mandatory for clinician-reported registries
- **PR** items are *mandatory* for patient-reported registries

SMA Core Dataset (V2)





sma.treat-nmd.org



Any questions?





Year 3 Annual Curators Report

Key Highlights



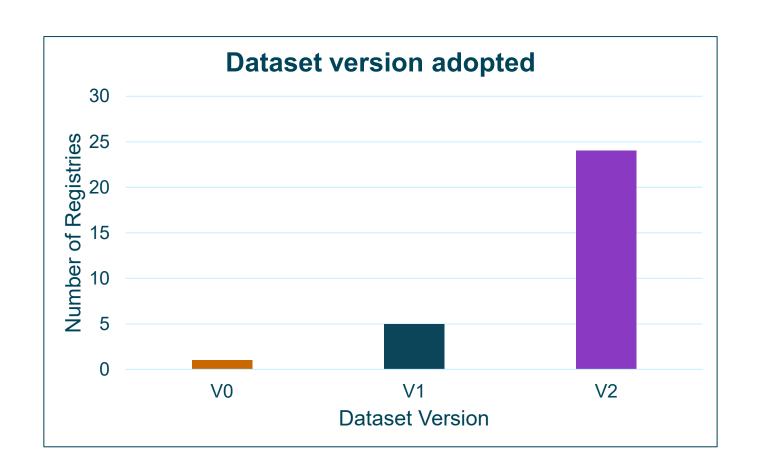


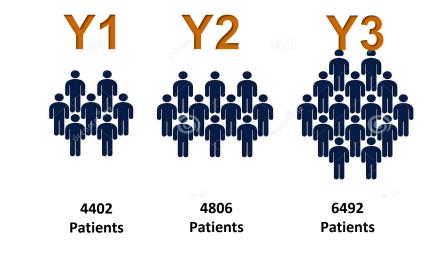


SMA Dataset Project - Participating Registries (by year)						
Pilot Year (2018)	Year 1 (2019)	Year 2 (2020)	Year 3 (2021)	Year 4 (2022)		
n=10	n=8	n=8	n=4	n= tbc		
Australia	Czech Republic*	Armenia	China	Argentina tbc		
Belgium	Hungary*	Bulgaria*	Lebanon*	Chile tbc		
Canada	Latvia*	Columbia	South Africa*	Mexico*		
Egypt NMD	Poland	Croatia*	Iran	Turkey (LUKAM)		
Germany (Munich)	Serbia	Egypt (PED NMD)				
India	Spain	Georgia			Key	
New Zealand	Switzerland	Malaysia			Clinician Reported	19
Slovenia *	Turkey (KUKAS)	Sweden			Patient Reported	9
UK & Ireland					Dual Reported	4
Ukraine					GRP users*	9
					Total Participating	
					Registries	32

Y3 Annual Report Update







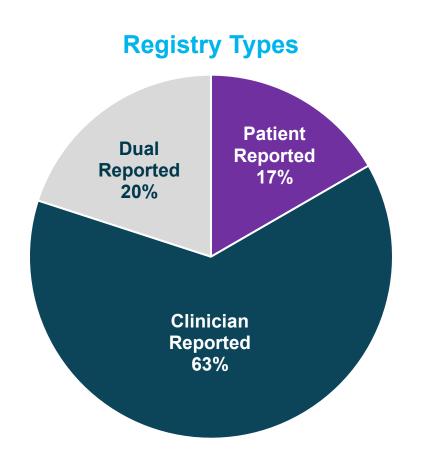


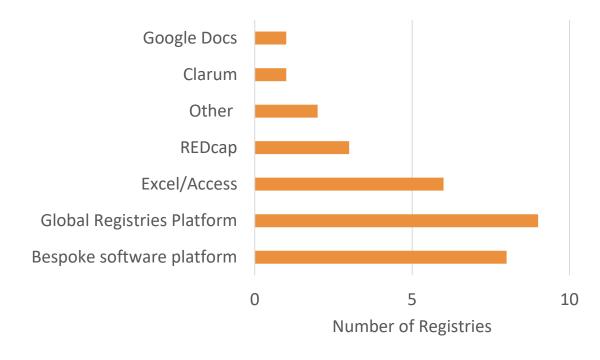
^{*}n=30, Data presented is from a curator survey carried out in May 2022 and reflects what registry curators have reported regarding therapy access in their own country. Access is defined as any DMT availability at all irrespective of reimbursement restrictions or route of access.





Registry Type & Data collection methods

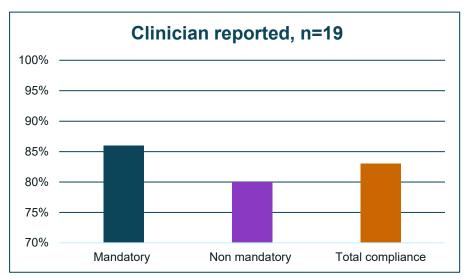


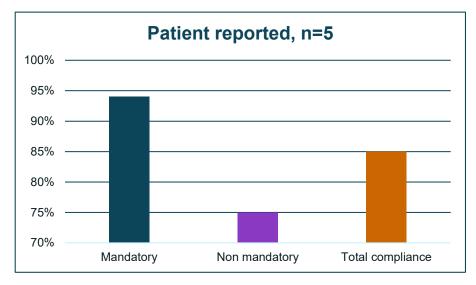


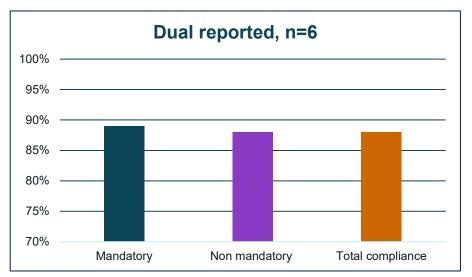
Bursary Payments		
	Part A	Part B
Number of Registries	24	9



Dataset Compliance Levels – Year 3









Most common items reported NOT collected

Mandatory		
Item	Number of Registries NOT collecting	
Patient global impression of severity (CR) (PR), n=30	17 (57%)	
Patient global impression of improvement (CR) (PR), n=30	17 (57%)	
Clinical global impression of improvement (CR), n=19	9 (47%)	
Clinical global impression of severity (CR), n=19	8 (42%)	
Peak cough flow (CR), n=19	8 (42%)	
DMT corticosteroid administration duration (CR), n=19	8 (42%)	
DMT corticosteroid drug (CR), n=19	7 (37%)	
Rehabilitative interventions usage (CR) (PR), n=30	6 (20%)	
DMT dosage unit (CR), n=19	6 (32%)	
Motor ability observed in clinic (CR) (PR), n=30	6 (20%)	
SMN1 variant HGVS (CR) (PR), n=30	6 (20%)	

Non-Mandatory		
Item	Number of Registries NOT collecting	
SMN2 variant c859GtoC testing method (n=30)	19 (63%)	
SMN2 variant c859GtoC (n=30)	18 (60%)	
Anti-AAVp antibody test days before administration (n=30)	16 (53%)	
Anti-AAV9 Antibody test result (n=30)	15 (50%)	
Cause of death (n=30)	11 (37%)	
Cause of death classification (n=30)	11 (37%)	
Head circumference (n=30)	10 (33%)	

Motor Outcome Measures



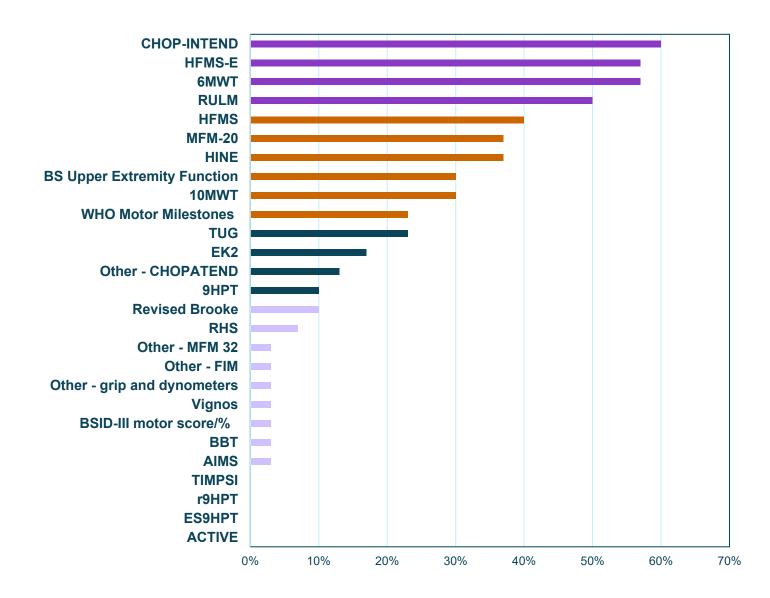
Increased OM collection... building consensus!

What are the reasons for this?

- Increased therapy availability
- PMS studies
- Requirement for regulators & payers



Scan to download the SMA Outcome Measures Library





Any questions?





UK SMA Patient Registry PROMs data collection & sharing

TREAT-NMD SMA Dataset Workshop

7th December 2022

Registry manager: Lindsay Murphy lindsay.murphy@newcastle.ac.uk



Date collection in the UK

O These three data collection studies work collaboratively to form UK SMA network.

Paediatric



Adult



SMA population























- Registration is patient-initiated.
- Collects patient-reported data.
- Active patient choice to participate and control use of their data; enables the patient voice to be captured.
- Available to all SMA patients in the UK & Ireland, independent of clinic.
- Affiliated to the TREAT-NMD SMA Global Registries Network; collects the TREAT-NMD SMA Expanded Core Dataset.
- Communication tool & ideal for collection of Patient Reported Outcome Measures (PROMs).

- Clinical databases for natural history.
- Collect *clinician-reported* data.
- To participate, patients must attend a Neuromuscular Clinic that is part of the SMA REACH networks.
- Apart from consent, patient participation is passive and occurs through their routine clinic visits.
- Networks are actively expanding, however cover is incomplete – therefore participation is not available to all UK SMA patients.



- Capture the patient's perspective on their condition & any changes, their quality of life and activities of daily living
- Inform the revision and improvement of Standards of Care
- Help improve understanding of the impact of SMA therapy, supplementing Clinical Data and Functional Assessments
 - PROMs collection and reporting is a requirement for Nusinersen and Risdiplam Managed Access Agreements inform and assist regulatory authorities determine the efficacy of treatments



- Collected via the UK SMA Patient Registry, implemented in April 2022
- Ask consent for the sharing of data with SMA REACH
- All SMA patients in the UK & Ireland are welcome to register and to complete PROMs questionnaires



www.sma-registry.org.uk/



PROMs Pilot Study

Collection of PROMs for the Nusinersen & Risdiplam Managed Access Agreements:



50 paediatric Nusinersen patients & 50 adult Nusinersen patients

100 patients via SMA REACH UK



50 paediatric Risdiplam patients & 50 adult Risdiplam patients



100 patients via Adult SMA REACH







SMA REACH coordination teams will align PROMs with clinic data, anonymise & report to Regulatory **Authorities**

PROMs... benefit to <u>all</u>SMA REACH clinics

PROMs data from the patient registry is shared with clinics in **grouped patient reports**:



- ➤ Sharing of identifiable, patient-level data with each patient's own neuromuscular clinic to inform patient care (SMA REACH & patient registry consent in place), every ~6 months
- > To enable this, sites first inform patient registry of patient ID
- ➤ Patient registry will provide all PROMs available for identified patients

PROMs collected

- Quality of Life EQ-5D
- Patient Global Impression of Change (Severity, Improvement)
- ❖ SMA Independence Scale (SMAIS) non-ambulant
- Free-text box









PROMs communications

- Regular & frequent communications with Pilot Study sites
- Increased frequency of patient registry automated reminder email from annual to every six months
- Emphasise the importance of reporting of PROMs at the same time as clinical data
- Patient registry PROMs promotional material
- Postcard & business card to be distributed to all sites
- Short animation posted to websites & shared with patient organisations





PROMs – UK SMA Patient Registry case study





Registry thoughts on the UK PROMS case study

- Do you think this is a good initiative?
- Would this be useful for your registry?
- Have you delivered any similar communications to patients / clinicians?
- Sharing best practice initiatives how can improve on this in the future?



SMA Expanded Core Dataset

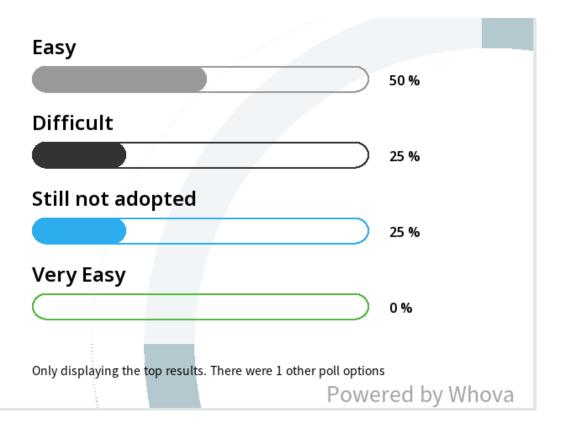
Group Work (50 mins)



Whova Poll – Results

Poll question
Please rate how
easy/difficult your
registry found it to adopt
V2 of the SMA Dataset?

My response

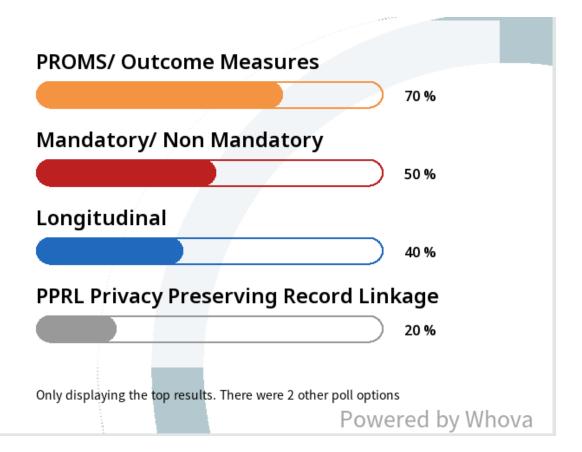




Whova Poll – Results

Poll question
Which elements of the
Dataset Specification
would you like further
clarification/training on?

My response











..... feedback from Annual Survey



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Head circumference (n=30)	10 (33%)



Feedback from groups

- Identify reasons why specific data items are proving difficult to collect?
- Should some items be re-classified as non-mandatory?
- How can we learn from one another?





What are the benefits/advantages of adopting the V2 dataset (word cloud - Whova poll)





Group Breakout Session



Group A

What are the key research questions the SMA community want answers to?

How can this lead to publications / poster?

Group B

How can the global SMA registry network work better together?

Group C

Working with industry/ regulators - share registry experience of what has worked well and not so well

Group D

Sharing best practice on patient recruitment strategies and how to make registries more patient centric



Break-out Group feedback



Next Steps (Dec 22 – May 23)

SMA Project Timeline

Dec '22

- SMA workshop
- Annual Curators Meeting
- Analyse workshop feedback

Jan '23

- Prepare & circulate workshop Report
- Monthly drop-in Sessions
- Continue supporting new/ existing registries
- Review TNMD dataset revision process

Feb '23

- Prepare & Issue Curator Surveys
- Confirm adoption of V2 by remaining registries
- Bursary processing
- Support new TNMD registries
- Circulate TNMD revision process for comment to TGDOC

Mar - April 23

- Analyse survey responses
- Registry 1-2-1 calls
- Process Final Bursary payments
- Start final report preparation



- Early May deliver report to Biogen.
- Upload to website
- Close project!





TREAT-NMD Dataset Revision Process

- Need a single co-ordinated strategy for all NMD datasets implement '23
- Dataset harmonisation across NMD's datasets
- ✓ Who should be involved?
- ✓ When should it take place?
- ✓ How long will registries be given to adopt the dataset to retain membership status?
- Does the One size fit's all model work?
- Multi stakeholder involvement in discussions





Key priorities for 2023

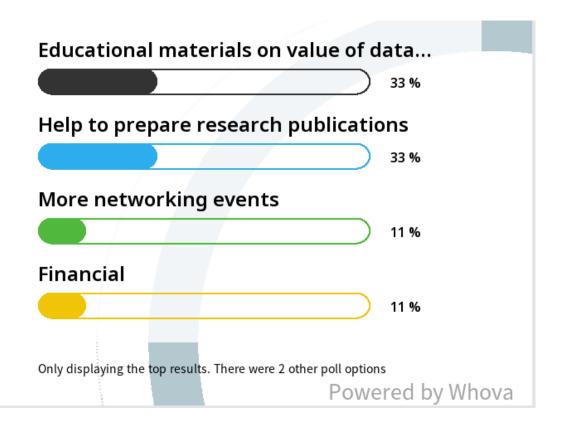
- Outline what support TREAT-NMD can provide to assist with registry data collection
- What future networking events do SMA registry curators want
- Identify the key research questions that need to be asked
- Support for publications / posters for conferences
- Sub-Group Lead Role seeking nominations (2023)



Whova Poll – Results

Poll question
What support could we
provide which would be of
most benefit to
registries/curators?

My response







Take-home messages!

☐ Collection of robust, standardised data is essential to building real world evidence to support PMS studies ☐ Need to balance needs of various stakeholders alongside registry maintenance ☐ How do we educate patients and clinicians on the value data collection ☐ Improve networking going forward - work collaboratively improve knowledge sharing and best practice ☐ Keep a patient focus to registry data collection. Patients focus on patient outcomes – registries should focus on the clinical need AND the patient outcomes and QoL





Please scan to complete the survey!



Biogen.

Thanks for the valuable support from our project sponsor