TREAT-NMD SMA Registries Core Dataset: Overview

- This is a <u>high-level overview</u> of the TREAT-NMD SMA Registries Core Dataset. It is supported by, and should be used in the context of, the following documents:
 - o "TREAT-NMD SMA Registries Core Dataset": Contains the full detailed dataset, including guidance on question structure and multiple choice answers.
 - "TREAT-NMD SMA Registries Core Dataset Manual": Contains full definitions and guidance on data collection.
- > **Toolkits** are in development to support affiliated registries in the selection and collection of motor measures and patient-reported outcomes.
- Any anticipated **training or support requirements** should be reported to joanne.bullivant@newcastle.ac.uk.

PLEASE NOTE:

- > TREAT-NMD SMA Registries are required to include the mandatory items in their case report forms, and make every effort to collect them (or agree actions to work towards their collection).
- However, the minimum data needed for an individual record to be accepted as valid for each global registry enquiry will be defined on a case-by-case basis.
- Registries should ensure that all data entries and updates are date-stamped (and time-stamped if possible)

KEY

Items in black text are mandatory

Items in blue are highly encouraged

CR = mandatory only for clinician-reported registries

PR = mandatory only for patient-reported registries

Contents

1.	Enrolment3
2.	Demographics
3.	Living status
4.	Genetic Diagnosis
5.	Clinical Observations4
6.	Scoliosis4
7.	Motor Function4
8.	Wheelchair use
9.	Nutrition5
10.	Pulmonary function5
11.	Therapies & medications6
12.	Hospitalisations & comorbidities6
13.	Clinical Research7
14.	Motor Measures7
15.	Patient-Reported Outcomes (PRO)8
16.	Electrophysiology and biomarkers9

MANDATORY ITEMS

HIGHLY ENCOURAGED ITEMS

	1. Enrolment		
1.00	Date of enrolment		
1.01	Date of consent (if different from		
	enrolment)		
1.02	Date of any re-consents		
1.03	Consented to TNMD global registry?		
1.04	Local registry ID		
	2. Demographics		
	Items 2.00-2.16: Registries are encouraged to collect the demographic items in blue for internal use		
	but only the mandatory items (in black) would ever be requested for central submission.		
	^ = items which support PPRL functionality (<u>Privacy Protecting Record Linkage</u>)		
2.00	Date of birth		
2.01		First name	
2.02		First name at birth (if different) ^	
2.03		Last name	
2.04		Last name at birth (if different) ^	
2.05	Sex		
2.06		Sex at birth (if different) ^	
2.10		Address	
2.11		Zip/post code	
2.12	Country of residence		
2.13		Country of birth ^	
2.14		City/town of birth ^	
2.15		Email address	
2.16		Telephone number	
2.20		Any other family member affected?	
2.21		If Yes; state kinship	
	3. Living status		
3.00	Patient alive?		
3.01		Date of death	
3.02		Cause of death	
	4. Genetic Diagnosis		
	° = In patient-reported registries, items marked Curator/Coordinator, following review of the pa		
4.00	° Genetic confirmation of SMA?		
4.01		If yes, was it through screening?	
4.02	PR Send/upload copy of genetic report		

4.03	Name/location of genetic testing centre	
4.04	Date of genetic diagnosis	
4.05	♦ Mutation name in SMN1 gene	
4.06	Width of Hame III SWINT gene	[⋄] Method of SMN1 testing
4.07	*Was SMN2 Copy number tested?	Wethod of Sivilvi testing
4.07	was sivilyz copy number testeu:	♦ Method of SMN2 testing
-	\$ CAANIA and a supplier	Method of Siving testing
4.09	♦ SMN2 copy number	
	5. Clinical Observations	
5.00	Age of symptom onset	
5.01	Spinal Muscular Atrophy type	
5.02	. , , ,	Height/length (cm)
5.03		Method of height measurement
5.04		Weight
5.05		Head circumference ^Δ
5.06		Chest circumference at full expiration [△]
5.07		Chest circumference at full inspiration [△]
3.07		△ = for infants <24 months old
		Contractures:
5.08		Shoulder
5.09		Elbow
5.10		Wrist
5.11		Finger
5.12		Hip
5.13		Knee
5.14		Ankle
5.20	PR Name of NM specialist or main doctor in	
	charge of care	
5.21	PR Name/location of main healthcare centre	
	6. Scoliosis	
6.00	Scoliosis diagnosis?	
6.01	-	If 'Yes': Cobb angle
6.02	If Yes; has had Scoliosis surgery?	
6.03		If Yes; Surgery technique
6.04		If Yes; Date of first surgery
		,
	7. Motor Function	
	Best and Current Motor Function:	
	For each motor function, specify:	
	-Never able	
	-Gained (age gained)	
	-Gained & lost (ages gained & lost)	
	-Gained (age gained)	

	-Observed in clinic; Reported by	
	patient/Caregiver	
7.00	Holding head up without support	
7.01	Rolling onto side	
7.02	Sitting without support WHO	
7.03	Crawling on hands and knees WHO	
7.04	Standing with assistance WHO	
7.05	Standing alone (without assistance) WHO	
7.06	Walking with assistance WHO	
7.07	Walking alone (without assistance) WHO	
7.08	Able to walk 10 metres unaided	
7.09	Climbing stairs	
7.10	Useful function of hands	
7.11	Reaching overhead in a sitting position	
7.12	Raising hands to mouth in a sitting position	
	0.	
	8. Wheelchair use	
8.00	Wheelchair use (for patients ≥ 2 years old)	
	9. Nutrition	
9.00	Gastric or nasal feeding tube use	
	Ü	
	10. Pulmonary function	
10.00	Invasive ventilation use	
10.01	Invasive ventilation frequency	
10.02	Invasive ventilation start date	
10.03	Non-invasive ventilation use	
10.04		
10.0	i Non-invasive ventilation tredilency	
10.05	Non-invasive ventilation frequency	
10.05	Non-invasive ventilation frequency Non-invasive ventilation start date	Assistance in airway clearance and secretion
10.05 10.06		Assistance in airway clearance and secretion mobilisation?
		mobilisation?
10.06		mobilisation? If 'Yes'; Types of assistance
10.06		mobilisation? If 'Yes'; Types of assistance Suction
10.06 10.07 10.08		mobilisation? If 'Yes'; Types of assistance Suction Chest percussion
10.06 10.07 10.08 10.09		mobilisation? If 'Yes'; Types of assistance Suction Chest percussion Cough Assist device
10.06 10.07 10.08		mobilisation? If 'Yes'; Types of assistance Suction Chest percussion Cough Assist device IPPV (Intermittent positive-pressure
10.06 10.07 10.08 10.09 10.10		mobilisation? If 'Yes'; Types of assistance Suction Chest percussion Cough Assist device IPPV (Intermittent positive-pressure ventilation)
10.06 10.07 10.08 10.09		mobilisation? If 'Yes'; Types of assistance Suction Chest percussion Cough Assist device IPPV (Intermittent positive-pressure
10.06 10.07 10.08 10.09 10.10	Non-invasive ventilation start date	mobilisation? If 'Yes'; Types of assistance Suction Chest percussion Cough Assist device IPPV (Intermittent positive-pressure ventilation)
10.06 10.07 10.08 10.09 10.10 10.11	Non-invasive ventilation start date Forced Vital Capacity (FVC) test done?	mobilisation? If 'Yes'; Types of assistance Suction Chest percussion Cough Assist device IPPV (Intermittent positive-pressure ventilation)
10.06 10.07 10.08 10.09 10.10 10.11 10.12 10.13	Non-invasive ventilation start date Forced Vital Capacity (FVC) test done? FVC date	mobilisation? If 'Yes'; Types of assistance Suction Chest percussion Cough Assist device IPPV (Intermittent positive-pressure ventilation)
10.06 10.07 10.08 10.09 10.10 10.11 10.12 10.13 10.14	Non-invasive ventilation start date Forced Vital Capacity (FVC) test done? FVC date CR FVC litre	mobilisation? If 'Yes'; Types of assistance Suction Chest percussion Cough Assist device IPPV (Intermittent positive-pressure ventilation)
10.06 10.07 10.08 10.09 10.10 10.11 10.12 10.13	Non-invasive ventilation start date Forced Vital Capacity (FVC) test done? FVC date	mobilisation? If 'Yes'; Types of assistance Suction Chest percussion Cough Assist device IPPV (Intermittent positive-pressure ventilation)

	11. Therapies & medications	
11.00	CR Disease-modifying therapy for SMA?	
11.01	PR Receiving Spinraza?	
11.02	CR Name of drug	
11.03	CR Start date	
11.04	CR Stop date if not ongoing	
11.05	CR Reason for stopping	
11.06	CR Dosage	
11.07	CR Frequency	
11.08	CR Route of administration	
11.09	CR Following current recommended dosing	
12.03	schedule?	
11.10	CR If 'No': Reason	
11.11	Prescribed allopathic drugs?	
11.12	Name of drug	
11.13		Start date of drug
11.14		Stop date of drug if not ongoing
		stop date of drug it not origining
11.20	Therapeutic interventions	
11.20	Therapeatic interventions	
	12. Hospitalisations & comor	oidities
42.00	•	Juitles
12.00	Any hospitalisations?	
12.01	Initial type of hospitalisation	
12.02	(planned/acute)	
12.02	Admission date (for each hospitalisation)	
12.03	Number of days in hospital (for each	
12.04	hospitalisation)	
12.04	CR Reason for each acute hospitalisation	
12.05	CR Reason for each planned hospitalisation	
12.06	CR For each acute hospitalisation: also	
42.07	reported as an SAE?	
12.07	CR If 'Yes' to 12.06; for which medication?	
12.10	Othor or mouthidities	
12.10	Other co-morbidities?	
12.11	Comorbidity details	
12.12	Comorbidity start date	
12.13	location and the second control of the secon	
12.14	Comorbidity end date if not ongoing	
	CR For each comorbidity: also reported as	
40.17	CR For each comorbidity: also reported as SAE?	
12.15	CR For each comorbidity: also reported as	
	CR For each comorbidity: also reported as SAE? CR If 'Yes' to 12.14; for which medication?	
12.15	CR For each comorbidity: also reported as SAE? CR If 'Yes' to 12.14; for which medication? CR In addition to hospitalisations, co-	
	CR For each comorbidity: also reported as SAE? CR If 'Yes' to 12.14; for which medication? CR In addition to hospitalisations, comorbidities or death already recorded: any	
12.20	CR For each comorbidity: also reported as SAE? CR If 'Yes' to 12.14; for which medication? CR In addition to hospitalisations, comorbidities or death already recorded: any other SAEs reported?	
	CR For each comorbidity: also reported as SAE? CR If 'Yes' to 12.14; for which medication? CR In addition to hospitalisations, comorbidities or death already recorded: any	

	13. Clinical Research		
12.00			
13.00 13.01	Ever participated in clinical trial? Name of trial		
13.01	Name of drug		
15.02	Name of drug		
13.10		Part of other registry and/or natural history	
		study?	
13.11		If 'Yes'; Please specify	
	14. Motor Measures		
	Clinician-reported registries only. Registrie	es are required to collect a minimum of 1	
	, , , , ,	he previous mandatory motor function question	
	(section 7).		
) is at the discretion of the clinician and/or	
	, , , , , , , , , , , , , , , , , , , ,	no pre-existing preference, the measures marked	
	,	ed on current Standards of Care and prior use in	
	Clinical Trials.		
14.00	CR Validated motor measure(s) taken?		
14.01	CR If 'No'; give reason		
1.101	CR If 'Yes'; provide relevant details:		
		Infantile onset SMA:	
14.10		* CHOP-INTEND score	
14.11		* CHOP-INTEND date	
14.12		* HFMS score	
14.13		* HFMS date	
14.14		* HFMS-E score	
14.15		* HFMS-E date	
1116		LUNE Coultry 2 cours	
14.16		HINE Section 2 score	
14.17		HINE Section 2 date	
14.18		Observed WHO score	
14.19		Observed WHO date	
15		ONSCIPCA WITHOUGH	
14.20		Other validated measure (specify)	
14.21		Other validated measure score	
14.22		Other validated measure date	
		Later onset SMA:	
14.30		* HFMS-E score	
14.31		* HFMS-E date	
14.32		* RULM score	

14.33		* RULM date
14.33		NOLIVI WALE
14.34		Brooke score
14.35		Brooke date
14.55		brooke date
14.36		Revised Brooke score
14.37		Revised Brooke date
14.37		Revised Brooke date
14.38		MFM score
14.39		MFM date
14.33		INFINI date
14.40		6MWT score
14.40		6MWT date
14.41		6WW Late
14.42		10MWT score
		10MWT score
14.43		TOIVIW I Uate
14.44		TUG score
14.44		TUG date
14.45		TOG date
14.46		Egen Klassification score
14.47		Egen Klassification score
14.47		Lgen Massification date
14.48		Observed WHO score
14.49		Observed WHO date
14.43		Observed Willo date
14.50		CHOP-ATEND score
14.51		CHOP-ATEND date
11.51		CHOI MEND date
14.52		Other validated measure (specify)
14.53		Other validated measure score
14.54		Other validated measure date
	15. Patient-Reported Outcom	nes (PRO)
15.00	CR Clinical Global Impression of Severity	
15.00	(CGI-S) - baseline only	
15.01	Date of CGI-S score	
15.01	Total Global Impression (TGI) according to	
13.02	patient/parent	
15.03	Date of patient/parent TGI score	
15.03	Date of patient parent for score	TGI according to clinician – follow up only
15.04		Date of clinician TGI score
15.05		Date of chilician Tor score
15.10	Other validated PRO taken?	
15.10	If 'Yes'; provide relevant details:	
15.11	ii 163, provide relevant detalls.	PedsQL (NM & fatigue scales) score
15.11		PedsQL (NM & fatigue scales) score PedsQL (NM & fatigue scales) date
13.12		I EUSQL (INIVI & Idligue Scales) udie

15.13	PEDI	-CAT score	
15.14	PEDI	-CAT date	
15.15	SMA	FRS score	
15.16	SMA	FRS date	
15.17	ACEN	ND score	
15.18	ACEN	ND date	
15.19	ACTI	VLIM score	
15.20	ACTI	VLIM date	
15.21	DISA	BKIDS score	
15.22	DISABKIDS date		
15.23		er validated PRO (specify)	
15.24		er validated PRO score	
15.25	Othe	er validated PRO date	
	16. Electrophysiology and biomarkers		
16.00	CMA	CMAP done?	
16.01	DEXA done?		
16.02	Muscle imaging done?		

The TREAT-NMD Global Database Oversight Committee (TGDOC) intend to review this dataset annually and feedback is welcomed. Please send suggestions to joanne.bullivant@newcastle.ac.uk.