

Data specification for compatibility with the RCSLT Online Outcome Tool (ROOT)

1.0 RCSLT Online Outcome Tool

The Royal College of Speech and Language Therapists (RCSLT) has developed a stand-alone online tool that has been developed to collect, collate and report on outcomes data.

Users of the online tool can either input Therapy Outcome Measures (TOMs) (Enderby and John, 2015; Enderby and John, 2019) data for service users directly into the ROOT, or alternatively, data that has been extracted from databases within existing electronic systems can be uploaded into the ROOT. Both methods will enable SLTs to access the reporting functions of the tool.

Reports can be generated for individual or groups of service users and the ROOT can also aggregate data across an SLT service, enabling teams and services to evaluate the outcomes delivered, to support SLTs with monitoring outcomes for specific clinical groups and examining the impact of their service.

This document has been developed to support those opting to use the upload method and sets out the requirements for local databases to be compatible with the ROOT. This document should be read in conjunction with the following:

- ROOT Briefing Pack
- ROOT Information Governance Pack

These documents are available <u>on the ROOT</u>.

For further information about the work, please visit <u>the RCSLT website</u> or contact <u>ROOT@rcslt.org</u>.

2.0 Data definitions related to Therapy Outcome Measures (TOMs)

The RCSLT has developed the following definitions in collaboration with the authors of TOMs for the purposes of ensuring the consistent use of terms related to the outcome measure.

Score

In the context of TOMs, a **score** is a single measurement in a domain of the TOMs (i.e. 'impairment', 'activity', participation, 'well-being', 'carer well-being'). It takes the form of a numerical value between 0 and 5.

Rating

In the context of TOMs, a **rating** is a set of scores collected across the domains of TOMs at a single point in time.

Episode of care

In the context of TOMs, an **episode of care** is the period over which a service user receives intervention(s) associated with a set of the therapy goals. The episode of care ends when the client is when an individual has completed treatment and/or discharged, put on review, transferred from inpatient to outpatient service or if the goals of therapy change.

During the **episode of care**, any number of TOMs **ratings** can be made, as required, for a service user. A baseline measurement is taken using TOMs at the beginning of the **episode of care** (*"start"* or *"admission"* rating), followed by measurement at the end of the **episode of care** (*"final"* or *"discharge"* rating), with any number of **ratings** in between (*"interim/intermediate"* ratings). Each rating comprises **scores** for each of the domains of TOMs (i.e. 'impairment', 'activity',

participation, 'well-being', 'carer well-being'), as applicable. A diagram has been developed to illustrate the use of these terms (figure 1) and more information about TOMs is provided in the third edition of the manual (Enderby and John, 2015) and user guide (Enderby and John, 2019).

The ROOT reports on changes in **scores** between the **ratings** made at the start of the episode of care and the end of the episode of care.

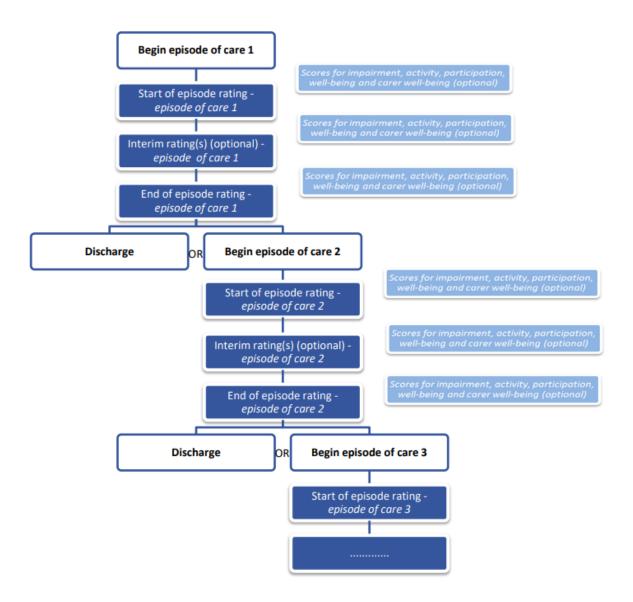


Figure 1: Terms related to Therapy Outcome Measures. Adapted with permission from Enderby and John 2019 (p. 5)

3.0 File structures accepted by the RCSLT Online Outcome Tool

The ROOT has been developed to enable file structures of three main types to be uploaded:

- Episode per row
- Rating per row
- Score per row

This section of the document sets out a description of each file structure. For each of the file structures, there are a number of fields that are required, in order to be compatible with the ROOT (minimal dataset). There are also desirable fields to maximise the reporting functions offered by the ROOT (core dataset). Services may choose to add a range of optional fields if they want an extended dataset. Annexes 1-3 provide detailed summary tables of the required, desirable and optional fields for each file structure.

3.1 Episode per row:

A file that has an episode per row will contain the TOMs scores for a complete episode of care for a service user in a single row in the spreadsheet. Typically, this will include a rating made at the start of an episode of care and one that is made at the end. It may be the case that interim/intermediate ratings are also included if this is standard practice for your service. (In many cases, this structure is rather inflexible and does not allow for longitudinal cases where there may be an indeterminate number of interim/intermediate scores).

Local Patient Identifier	Year Of Birth	Gender	Primary Communication Swallowing Disorder Descriptor	Primary Communication Swallowing Disorder Code	Additional Communication Swallowing Disorder	Additional Communication Swallowing Disorder Code	Primary Medical Diagnosis Descriptor	Primary Medical Diagnosis Code ICD1011	Additional Medical Diagnosis	Additional Medical Diagnosis Code	Primary Scale	Primary TOMs Scale ID	Secondary [`] Scale	Secondary TOMs Scale ID	Rating Date Start	Impairment Rating Primary	Impairment Rating Secondary	Activity Rating Primary Start	Secondary Start	Participation Rating Start Wellbeing Rating	Start	Larer wellbeing Rating Start	Rating Date Final	Impairment Rating Primary	Impairment Rating Secondary	Activity Rating Primary Final	Activity Rating Secondary Final	Participation Rating Final	Wellbeing Rating Final	Larer Wellbeing Rating Final Discharge Code
KLM86735	2008	Male	Stammering	F98.5							Dysfluency	23			13/04/2016	3		2		2	2	2	15/12/2017	3		3		3	3	3
BHY69473	2012	Female	Apravialdyspravia	F48.2							Core	0			25/05/2016	3		3		3	3	3	12/01/2018	3		3		3	3	3
BHH97545	2101	Female	Dysphonia	R49.0	Hypernasalit	r49.21					Dysphonia	26			13/05/2016	3		3		3	3	3	19/04/2017	4		3		3	3	3
HTY80832	2011		Expressive language disorder	E00 1	Receptive language disorder	F80.2					Child language impairment	6			1509/2016	2		2		25	2	24	17/09/2017	2	2		2	2	2	2
					GISOTOFI	100.6						0			29052016	6				2.0	- 2	2.4		3	3	2	3	3		2
BHY69473			Apravialdyspravia								Core	0				3		3		3	3	- 3	12/01/2018	3		3		3	3	3
PLM86735	2008			F98.5							Dysfluency	23			13/04/2016	3		2	_	2	2	2								
HJL893728	2012		Social (pragmatic) communication disorder	F80.82	Speech disorder	F80.0	Autism	F84.0			Autism		Phonologica I disorder	40	21/10/2017	3	3	3	3	3	3		20/10/2018	3.5	3.5	3.5	3	3.5	3	3

A row represents a complete set of TOMs scores for an episode of care

Please refer to annex 1 for a description of the required fields for this file structure. A template in episode per row format is available <u>on the ROOT</u>

3.2 Rating per row:

A file that has a rating per row will contain the TOMs scores (for 'impairment', 'activity', participation, 'well-being', 'carer wellbeing') for a single point in time for a service user on a single row of the spreadsheet. An episode of care will therefore be represented across multiple rows in the spreadsheet (i.e. the rating made at the start of the episode will be on a separate row from the rating at the end of the episode, as will any interim ratings).

Local Patient Identifier	Year Of Birth	Gender	Episode Identifier	Primary Communication Swallowing Disorder Descriptor	Primary Communication Swallowing Disorder Code ICD10/11	Additional Communication Swallowing Disorder Descriptor	Additional Communication Swallowing Disorder Code ICD10411	Primary Medical Diagnosis Descriptor	Primary Medical Diagnosis Code ICD1011	Additional Medical Diagnosis Descriptor	Additional Medical Diagnosis Code ICD1011	Primary TOMs Scale	Primary TOMs Scale ID	Secondary TDMs Scale	Secondary TOMs Scale ID	Rating Type	Rating Date	Impairment Rating Primary	Impairment Rating Secondary	Activity Rating Primary	Activity Rating Secondary	Participation Rating	Wellbeing Rating	Carer Wellbeing Rating	Discharge Code
BHY69471	2012	Fernale	1	Apraxialdyspra	R48.2	Receptive	F80.2					Core	0			Start	25/05/2016	2.5		2		2.5	2.5	2.5	j
BHY69471	2012	Fernale	1	Apraxialdyspra	R48.2	Receptive	F80.2					Core	0			Interim	25/05/2016	2		2		2	2	2	2
BHY69471	2012	Female	1	Apraxialdyspra	R48.2	Receptive	F80.2					Core	0			Final	25/05/2016	3		2		3	3	3	3 Therapy complete
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KJL893728		Male		Social (pragmatic)	F80.82			Autism	F84.0			Autism		rnonological disorder		Start	21/10/2017		2	2		2	2	2	

The Episode ID links together the ratings belonging to the same episode of care that span several rows of the spreadsheet

Each row contains a set of TOMs scores for a single point in time (a rating). Taken together, these rows comprose the scores across an episode of care.

In this case, it is essential that the file contains an "episode identifier". This is a data item that ties together all the TOMs ratings made during an episode of care for an individual, which will include TOMs ratings at admission/start, at final/discharge and may or may not include some interim ratings. In some electronic systems, the "episode identifier" is called a "referral ID". Please refer to annex 2 for a full description of the required fields for this file structure.

A template in rating per row format is available on the ROOT

3.3 Score per row:

In this file structure, the scores for each domain of TOMs appear on separate rows of the spreadsheet. Thus, scores for impairment, activity, participation, wellbeing and carer wellbeing at a single point in time (including at the start of the episode, the end of the episode and any interim points) will occupy separate rows. This is classically how a database would export the data.

For this file structure, it is essential that the file contains an "episode identifier". This is a data item that ties together all the TOMs scores made for an episode of care, which will include TOMs scores at admission/start, at final/discharge and may or may not include some interim scores. In some electronic systems, the "episode identifier" is referred to as a "referral ID". It is also desirable for files of this structure to contain a "rating identifier". This is a data item that links scores belonging to a single rating. Failing this, the date that the rating was made may serve the purpose. Please refer to annex 3 for a full description of the required fields for this file structure.

A template in score per row format is available on the ROOT

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BHY694822008Female1praxia/dyspraxiaR48.13Receptive language disorderF80.13PCore04Final20.01.18A2BHY694832008Female1praxia/dyspraxiaR48.14Receptive language disorderF80.14PCore04Final20.01.18A2BHY694842008Female1praxia/dyspraxiaR48.15Receptive language disorderF80.14PCore04Final20.01.18W2.5BHY694852008Female1praxia/dyspraxiaR48.16Receptive language disorderF80.16PCore04Final20.01.18W2.5BHY694862008Female1praxia/dyspraxiaR48.16Receptive language disorderF80.16PCore04Final20.01.18W2.5BHY694862008Female1praxia/dyspraxiaR48.17Receptive language disorderF80.17SChild language61Start23.02.16I3	BHY69480	2008 F	Fernale	1				F80.11			Р	Core	0	3	Interim	7.09.17	CWB	2		
BHY694832008Female1praxia/dyspraxiaR48.14Receptive language disorderF80.14PCore04Final20.01.18P2BHY694842008Female1praxia/dyspraxiaR48.15Receptive language disorderF80.15PCore04Final20.01.18W2.5BHY694852008Female1praxia/dyspraxiaR48.16Receptive language disorderF80.16PCore04Final20.01.18W2.5BHY694862008Female1opraxia/dyspraxiaR48.17Receptive language disorderF80.17SChild language61Start2.3.02.16I3	BHY69481	2008 F	Fernale	1				F80.12			Р	Core	0	4	Final	20.01.18	1	2		
BHY694832008Female1praxia/dyspraxiaR48.14Receptive language disorderF80.14PCore04Final20.01.18P2BHY694842008Female1praxia/dyspraxiaR48.15Receptive language disorderF80.15PCore04Final20.01.18W2.5BHY694852008Female1praxia/dyspraxiaR48.16Receptive language disorderF80.16PCore04Final20.01.18W2.5BHY694862008Female1opraxia/dyspraxiaR48.17Receptive language disorderF80.17SChild language61Start2.3.02.16I3	BHY69482	2008 F	Fernale	1	, praxia/dyspraxia	R48.13	Receptive language disorder	F80.13			Р	Core	0	4	Final	20.01.18	A	2		
BHY69484 2008 Female 1 praxia/dyspraxia R48.15 Receptive language disorder F80.15 P Core 0 4 Final 20.01.18 W 2.5 BHY69485 2008 Female 1 kpraxia/dyspraxia R48.16 Receptive language disorder F80.16 P Core 0 4 Final 20.01.18 CWB 2.5 BHY69486 2008 Female 1 kpraxia/dyspraxia R48.17 Receptive language disorder F80.17 S Child language 6 1 Start 23.02.16 I 3	BHY69483	2008 F	Fernale	1				F80.14			Р	Core	0	4	Final	20.01.18	Р	2		
BHY69485 2008 Female 1 praxialdyspraxia R48.16 Receptive language disorder F80.16 P Core 0 4 Final 20.01.18 CWB 2.5 BHY69485 2008 Female 1 spraxialdyspraxia R48.17 Receptive language disorder F80.17 I S Child language 6 1 Start 23.02.16 I 3	BHY69484	2008 F	Fernale	1				F80.15			Р	Core	0	4	Final	20.01.18	W	2.5		
	BHY69485	2008 F	Fernale	1	praxialdyspraxia	R48.16	Receptive language disorder	F80.16			Р	Core	0	4	Final	20.01.18	CWB	2.5		
BHY69487 2008 Female 1 Apraxia/dyspraxia R48.18 Receptive language disorder F80.18 S Child languag 6 1 Start 23.02.16 A 2.5	BHY69486	2008 F	Fernale	1	praxialdyspraxia	R48.17	Receptive language disorder	F80.17			S	Child languag	6	1	Start	23.02.16	1	3		
	BHY69487	2008 F	Fernale	1	Apraxialdyspraxia	R48.18	Receptive language disorder	F80.18			S	Child languag	6	1	Start 🖌	23.02.16	А	2.5		

This is one episode of care, as indicated by the episode ID

This episode of care contains TOMs scores using two adapted scales - the primary scale (P) and a secondary scale (S)

This episode of care has four ratings (one 'start', two 'interim' and one 'final'). Each rating has a different rating ID.

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4.0 Top tips for preparing your files

Before you are ready to upload a file of data to the ROOT, there are a few things to check. Below are a few top tips when preparing your file.

- 1. **Consider creating a duplicate file to work from**. You may need to make changes to file and it may be useful to preserve the original.
- 2. Check that the file contains a start and a final rating for each service user. Only completed episodes of care for service users can be uploaded to the ROOT. To ensure that there are no gaps or duplicates in the data uploaded to the ROOT across consecutive files, it is recommended that the file you upload contain all TOMs data for the episodes of care that end within a given date range. For example, the first file uploaded to the ROOT may contain all TOMs data for completed episodes of care that end between 1 January and 31 March. The next file to be uploaded would contain all TOMs data for completed episodes of care that end between 1 January and 31 March. The next file to be uploaded would contain all TOMs data for completed episodes of care that end between 1 April and 30 June. (Please note: there are no restrictions on how frequently data is uploaded to the ROOT, this is likely to depend on local reporting requirements, and may change over time). Also, if you have entered the data manually into the spreadsheet, you will need to transfer any TOMs ratings for incomplete episodes of care to a new sheet for colleagues to continue to use.
- 3. **Remove any formulae in the spreadsheet.** Some spreadsheets contain formulae or formatting, which cannot be handled by the importer. To do this, you will need to reformat the cells.
- 4. Check that the headings of each column are on a single row in the spreadsheet and that there are no merged cells. If the headings span more than one row, or any rows or columns are merged, this may cause some difficulties when it comes to uploading your file.
- 5. Double check that the file only contains the data authorised by your Information Governance leads. Cross-reference your spreadsheet with

the list of fields in the data processing agreement. Things to look out for include and patients' names and dates of birth. If your file contains date of birth rather than year of birth, this can be done by inserting a new column into the spreadsheet and using the function **=Year(Date)** [where 'Date' is the cell containing the date of birth].

6. **Check that the file is in .xlsx format**. If it is in not, this can be done by changing the file type when saving the file, or converting it.

5.0 Uploading files to the ROOT

Uploading files of data to the ROOT is a manual process, which involves the speech and language therapist uploading the data file to a securely hosted web system (for more information about system security, please refer to the ROOT Information Governance Pack).

The RCSLT has developed <u>training resources</u> to support with this process. Below are some frequently asked questions about the upload process:

How long does it take to upload a file of data to the ROOT?

This will depend on a number of factors, including the size of the dataset, the quality of the data, the type of file structure and the users' familiarity with using the process. When completing the first submission, it will be necessary to complete a mapping of the fields in your data file on to the core fields accepted by the ROOT. The ROOT identifies any values in the dataset that are outside the expected range or required format and produces a report on any anomalies. The user is given the opportunity to correct the erroneous values, where possible, or reject the affected data, meaning that it will not be imported. It is advised that you set aside at least an hour to complete the first submission. Providing that the structure of the data file does not change, subsequent uploads should take less time.

How often should we upload files of data to the ROOT?

Data can be uploaded as often as required by the service. Typically, services tend to do this on a quarterly to six-monthly basis, or as required for reporting purposes.

Can more than one therapist in our team upload data to the ROOT?

Yes, it is possible to set up access to the ROOT for several colleagues to be able to upload the data should you wish to share this role. For example, it may be more practical for data to be uploaded separately for each team and for a member of each team to take responsibility for doing so. In these circumstances, it is advisable to have one member of staff to take the lead in co-ordinating this, including agreeing the frequency of uploads and being a point of contact with the RCSLT.

Are reports on the data available immediately after uploading a file?

Providing the data is successfully imported, reports on the data can be generated within 10 minutes of submission.

Does the ROOT use a clinical classification standard?

The RCSLT Online Outcome Tool uses the International Classification of Diseases, Tenth Edition (ICD-10), developed by the World Health Organization. More information about this coding and classification system is available at <u>http://www.who.int/classifications/icd/en/</u>.

If the file of data being uploaded does not contain ICD-10 code, these can be 'mapped' when the file is uploaded.

The RCSLT is aware that ICD-11 has now been released. However, due to the limitations SLTs have reported with this classification system and the commitment across healthcare to using SNOMED CT, <u>work is currently underway</u> to explore the requirements for a transition to using SNOMED CT codes.

6.0 References

Enderby, P. and John, A. (2015) *Therapy outcome measures for rehabilitation professionals*, Third Edition, Guildford: J&R Press Ltd

Enderby, P. and John, A. (2019) *Therapy Outcome Measure User Guide*. Croydon: J & R Press Ltd

Annex 1: Data fields for "episode per row" file structure

Field	Description	Required/Desirable/Optional				
Local Patient Identifier	This is a local patient identifier and can take any alpha numeric form.	Required - The ROOT uses this to tie together records for a particular patient across episodes of care.				
Year Of Birth	The year of the patient's birth	Desirable - to enable outcomes data to be filtered by age for the purposes of analysis, which is helpful both locally and nationally				
Gender	The patient's gender	Desirable - to enable outcomes data to be filtered by gender for the purposes of analysis, which is helpful both locally and nationally				
Primary Communication and Swallowing Disorder Descriptor/Code	The descriptor and/or ICD-10 code for the patient's primary communication/swallowing disorder	Desirable - to enable outcomes data to be filtered by the services users' primary communication/swallowing disorder (e.g. dysphagia) for the purposes of analysis				
Additional Communication and Swallowing Disorder Descriptor(s)/Code(s)	The descriptor(s) and/or ICD-10 code(s) for any additional communication/swallowing disorder(s)	Optional - to enable outcomes data to be analysed with reference to co-morbid conditions and complexity				
Primary Medical Diagnosis Descriptor/Code	The descriptor and ICD-10 code for the primary medical diagnosis , where relevant	Optional - to enable outcomes data to be analysed with reference to multiple co- morbidities				
Additional Medical Diagnosis Descriptor(s)/Code(s)	The descriptor(s) and ICD-10 code(s) for any additional medical diagnoses, where relevant	Optional - to enable outcomes data to be analysed with reference to multiple co- morbidities				

Primary TOMs Scale name / ID	The name and/or identifying number of the TOMs scale that was used to rate the primary impairment (Enderby and John 2019). The Core Scale is coded as 0 (zero).	Required - to identify the TOMs scale used to rate the patient
Secondary TOMs Scale name / ID	The name and/or identifying number of the TOMs scale that was used to rate the secondary impairment (Enderby and John 2019). The Core Scale is coded as 0 (zero).	Optional - to identify the secondary TOMs scale used to rate the patient, where applicable
Rating Date – start of episode	The date the first TOMs rating was made	Required – to enable outcomes over time to be tracked
Rating Date – end of episode	The date the final TOMs rating was made	Required – to enable outcomes over time to be tracked
Impairment Score (Primary) – start of episode ¹	Numerical value for the TOMs score for the impairment domain: 0, 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5 (Zero is the severe / profound end of the scale, five is the normal end of	Required
Impairment Score (Primary) – end of episode	the scale) Any TOMs domains where a TOMs score is not applicable should be left blank (null).	
Impairment Score (Secondary) – start of episode	Numerical value for the TOMs score for the impairment domain: 0, 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5 (Zero is the severe / profound end of the scale, five is the normal end of	Optional – to enable data to be recorded where two TOMs scales are used
Impairment Score (Secondary) – end of episode	the scale) Any TOMs domains where a TOMs score is not applicable should be left blank (null).	concurrently
Activity Score (Primary) – start of episode	Numerical value for the TOMs score for the activity domain: 0, 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5	Required

¹ Some TOMs scales do not follow the typical pattern and have additional domains. Refer to the latest version of the Therapy Outcome Measures User Guide for details.

	(Zero is the severe / profound end of the scale, five is the normal end of	
Activity Score (Primary)	the scale)	
– end of episode	Any TOMs domains where a TOMs score is not applicable should be left	
	blank (null).	
Activity Score	Numerical value for the TOMs score for the activity domain: 0, 0.5, 1, 1.5,	
(Secondary) – start of	2, 2.5, 3, 3.5, 4, 4.5, 5	
episode	(Zero is the severe / profound end of the scale, five is the normal end of	Optional – to enable data to be recorded where two TOMs scales are used
Activity Score	the scale)	concurrently
(Secondary) – end of	Any TOMs domains where a TOMs score is not applicable should be left	concurrently
episode	blank (null).	
Participation Score –	Numerical value for the TOMs score for the participation domain: 0, 0.5,	
start of episode	1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5	
	(Zero is the severe / profound end of the scale, five is the normal end of	Dequired
Participation Score –	the scale)	Required
end of episode	Any TOMs domains where a TOMs score is not applicable should be left	
	blank (null).	
Wellbeing Score – start	Numerical value for the TOMs score for the wellbeing domain: 0, 0.5, 1,	
of episode	1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5	
	(Zero is the severe / profound end of the scale, five is the normal end of	Required
Wellbeing Score – end	the scale)	
of episode	Any TOMs domains where a TOMs score is not applicable should be left	
	blank (null).	
Carer Wellbeing Score -	Numerical value for the TOMs score for the carer wellbeing domain: 0,	
start of episode	0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5	
	(Zero is the severe / profound end of the scale, five is the normal end of	Optional – to enable data to be recorded
arer Wellbeing Score –	the scale)	where the carer wellbeing is recorded
end of episode	Any TOMs domains where a TOMs score is not applicable should be left	
	blank (null).	

End-of- episode/Discharge Code/Description	A description of the reason for the end of the episode/discharge. The standard list used in the ROOT is: Advice only (no intervention); Declined treatment; Did not attend; Died; Different intervention required; End of episode of care (to be reviewed); Intervening illness/medically unwell; Moved out of area; Recovered (therapy not required); Therapy complete (discharged); Therapy no longer appropriate; Transferred to another service; Unknown/other	Optional
Deprivation Decile (available for England, Northern Ireland, Scotland or Wales)	The level of deprivation in the area where the person usually lives, as determined by their postcode. Numerical value from 1 to 10 or alternative 'no fixed address'.	Optional – for services who choose to collect this data
Direction of care	The objective of the episode of care. The options are: Improve; Sustain; Manage decline	Optional – for services who choose to collect this data
Interpreter required?	Whether an interpreter is needed at some point in patient care i.e. yes or no.	Optional – for services who choose to collect this data
Method of service delivery	Whether interventions were delivered: Face to face (in-person) only; Remote only; Mixed (face to face and remote)	Optional – for services who choose to collect this data
Patient ethnicity	The person's self-reported ethnicity. Services can choose to use on of the standard lists on ROOT or set locally determined categories.	Optional – for services who choose to collect this data
Patient language(s)	Whether the person uses or has exposure to languages other than English and Welsh. The options are English / Welsh only; English / Welsh and other language(s); No English / Welsh	Optional – for services who choose to collect this data
Total time	Numerical value for total time, in minutes, taken to complete the episode of care. Any whole number can be entered.	Optional – for services who choose to collect this data
Total number of contacts	Numerical value for the total contacts for intervention during the completed episode of care. Any whole number can be entered.	Optional – for services who choose to collect this data
Local/user-defined fields	These are data items that are deemed useful, and created by participating services. They are only available to the service that created them. They may be used to increase the value of the data to the local service by ensuring the data better matches local structures, practices and reporting requirements. As these fields are under the control of the	Optional

local service, their own organisation's information governance	
frameworks must be adhered to.	

Annex 2: Data fields for "rating per row" file structure

Field	Description	Required/Desirable/Optional
Local Patient Identifier	This is a local patient identifier and can take any alpha numeric form.	Required - the ROOT uses this to tie together records for a particular patient across episodes of care.
Year Of Birth	The year of the patient's birth	Desirable - to enable outcomes data to be filtered by age for the purposes of analysis, which is helpful both locally and nationally
Gender	The patient's gender	Desirable - to enable outcomes data to be filtered by gender for the purposes of analysis, which is helpful both locally and nationally
Episode of care Identifier	An episode of care identifier can take any alpha numeric form and delineates an episode of care. For the purposes of TOMs, an episode of care is a package of intervention(s) and will contain: Start of Episode ratings (S) Interim(s) ratings (I) (Optional) End of Episode ratings (E)	Required - to link ratings for a given episode of care
Primary Communication and Swallowing Disorder Descriptor/Code	The descriptor and/or ICD-10 code for the patient's primary communication/swallowing disorder	Desirable - to enable outcomes data to be filtered by the services users' primary communication/swallowing disorder (e.g. dysphagia) for the purposes of analysis

Field	Description	Required/Desirable/Optional
Additional Communication and Swallowing Disorder Descriptor(s)/Code(s)	The descriptor(s) and/or ICD-10 code(s) for any additional communication/swallowing disorder(s)	Optional - to enable outcomes data to be analysed with reference to co-morbid conditions
Primary Medical Diagnosis Descriptor/Code	The descriptor and ICD-10 code for the primary medical diagnosis, where relevant	Optional - to enable outcomes data to be analysed with reference to multiple co- morbidities
Additional Medical Diagnosis Descriptor(s)/Code(s)	The descriptor(s) and ICD-10 code(s) for any additional medical diagnoses, were	Optional - to enable outcomes data to be analysed with reference to multiple co- morbidities
Primary TOMs Scale name / ID	The name and/or identifying number of the TOMs scale that was used to rate the primary impairment (Enderby and John 2019). The Core Scale is coded as 0 (zero).	Required - to identify the TOMs scale used to rate the patient
Secondary TOMs Scale name / ID	The name and/or identifying number of the TOMs scale that was used to rate the secondary impairment (Enderby and John 2019). The Core Scale is coded as 0 (zero).	Optional - to identify the secondary TOMs scale used to rate the patient, where applicable
Rating Type	S = Admission/Initial Assessment/First Rating/Start of Episode I = Interim/On-Going (optional) F= End of Episode/Final Rating/Discharge	Required – to determine the sequence of ratings across an episode of care
Rating Date	The date the TOMs rating was made	Required – to enable outcomes over time to be tracked

Field	Description	Required/Desirable/Optional
Impairment Score (Primary)²	Numerical value for the TOMs score for the impairment domain: 0, 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5 (Zero is the severe / profound end of the scale, five is the normal end of the scale) Any TOMs domains where a TOMs score is not applicable should be left blank (null).	Required
Impairment Score (Secondary)	Numerical value for the TOMs score for the impairment domain: 0, 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5 (Zero is the severe / profound end of the scale, five is the normal end of the scale) Any TOMs domains where a TOMs score is not applicable should be left blank (null).	Optional – to enable data to be recorded where two TOMs scales are used concurrently
Activity Score (Primary)	Numerical value for the TOMs score for the activity domain: 0, 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5 (Zero is the severe / profound end of the scale, five is the normal end of the scale) Any TOMs domains where a TOMs score is not applicable should be left blank (null).	Required
Activity Score (Secondary)	Numerical value for the TOMs score for the activity domain: 0, 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5 (Zero is the severe / profound end of the scale, five is the normal end of the scale) Any TOMs domains where a TOMs score is not applicable should be left blank (null).	Optional – to enable data to be recorded where two TOMs scales are used concurrently

² Some TOMs scales do not follow the typical pattern and have additional domains. Refer to the latest version of the Therapy Outcome Measures User Guide for details.

Field	Description	Required/Desirable/Optional
	Numerical value for the TOMs score for the participation domain: 0, 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5	
Participation Score	(Zero is the severe / profound end of the scale, five is the normal end of the scale)	Required
	Any TOMs domains where a TOMs score is not applicable should be left blank (null).	
	Numerical value for the TOMs score for the wellbeing domain: 0, 0.5, 1,	
Wellbeing Score	1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5 (Zero is the severe / profound end of the scale, five is the normal end of the scale)	Required
	Any TOMs domains where a TOMs score is not applicable should be left blank (null).	
	Numerical value for the TOMs score for the carer wellbeing domain: 0, 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5	
Carer Rating Score	(Zero is the severe / profound end of the scale, five is the normal end of the scale)	Optional – to enable data to be recorded where the carer wellbeing is recorded
	Any TOMs domains where a TOMs score is not applicable should be left blank (null).	
	A description of the reason for the end of the episode/discharge. The	
	standard list used in the ROOT is: Advice only (no intervention); Declined	
End-of-	treatment; Did not attend; Died; Different intervention required; End of	
episode/Discharge	episode of care (to be reviewed); Intervening illness/medically unwell;	Optional
Code/Description	Moved out of area; Recovered (therapy not required); Therapy complete	
	(discharged); Therapy no longer appropriate; Transferred to another service; Unknown/other	
<i>Deprivation Decile</i> (available for England,	The level of deprivation in the area where the person usually lives, as determined by their postcode. Numerical value from 1 to 10 or alternative 'no fixed address'.	Optional – for services who choose to collect this data

Field	Description	Required/Desirable/Optional
Northern Ireland,		
Scotland or Wales)		
Direction of care	The objective of the episode of care. The options are: Improve; Sustain;	Optional – for services who choose to collect
	Manage decline	this data
Interpreter required?	Whether an interpreter is needed at some point in patient care i.e. yes	Optional – for services who choose to collect
	or no.	this data
Method of service	Whether interventions were delivered: Face to face (in-person) only;	Optional – for services who choose to collect
delivery	Remote only; Mixed (face to face and remote)	this data
Patient ethnicity	The person's self-reported ethnicity. Services can choose to use on of	Optional – for services who choose to collect
	the standard lists on ROOT or set locally determined categories.	this data
Patient language(s)	Whether the person uses or has exposure to languages other than	Optional – for services who choose to collect
	English and Welsh. The options are English / Welsh only; English / Welsh	this data
	and other language(s); No English / Welsh	
Total time	Numerical value for total time, in minutes, taken to complete the	Optional – for services who choose to collect
	episode of care. Any whole number can be entered.	this data
Total number of	Numerical value for the total contacts for intervention during the	Optional – for services who choose to collect
contacts	completed episode of care. Any whole number can be entered.	this data
Local/user-defined	These are data items that are deemed useful, and created by	Optional
fields	participating services. They are only available to the service that created	
	them. They may be used to increase the value of the data to the local	
	service by ensuring the data better matches local structures, practices	
	and reporting requirements. As these fields are under the control of the	
	local service, their own organisation's information governance	
	frameworks must be adhered to.	

Annex 3: Required data fields for "score per row" file structure

Field	Description	Required/Desirable/Optional
Local Patient Identifier	This is a local patient identifier and can take any alpha numeric form.	Required - the ROOT uses this to tie together records for a particular patient across episodes of
		care.
		Desirable - to enable outcomes data to be filtered
Year Of Birth	The year of the patient's birth	by age for the purposes of analysis, which is
		helpful both locally and nationally
	The patient's gender	Desirable - to enable outcomes data to be filtered
Gender		by gender for the purposes of analysis, which is
		helpful both locally and nationally
	An episode of care identifier can take any alpha numeric form and	
	delineates an episode of care. For the purposes of TOMs, an	
Episode of care	episode of care is a package of intervention(s) and will contain:	Required - to link ratings for a given episode of
Identifier	Start of Episode ratings (S)	care
	Interim(s) ratings (I) (Optional)	
	End of Episode ratings (E)	
Primary		Desirable - to enable outcomes data to be filtered
Communication and	The descriptor and/or ICD-10 code for the patient's primary	by the services users' primary
Swallowing Disorder	communication/swallowing disorder	communication/swallowing disorder (e.g.
Descriptor/Code		dysphagia) for the purposes of analysis
Additional		
Communication and	The descriptor(s) and/or ICD-10 code(s) for any additional	Optional - to enable outcomes data to be
Swallowing Disorder Descriptor(s)/Code(s)	communication/swallowing disorder(s)	analysed with reference to co-morbid conditions

Field	Description	Required/Desirable/Optional
Primary Medical Diagnosis Descriptor/Code	The descriptor(s) and ICD-10 code(s) for any primary medical diagnosis, where relevant	Optional - to enable outcomes data to be analysed with reference to multiple co-morbidities
Additional Medical Diagnosis Descriptor(s)/Code(s)	The descriptor(s) and ICD-10 code(s) for any additional medical diagnoses, where relevant	Optional - to enable outcomes data to be analysed with reference to multiple co-morbidities
TOMs Scale Primary/Secondary	This indicates whether the TOMs scale is 'primary' or 'secondary'	Required
TOMs Scale name / ID	The name and/or identifying number of the TOMs scale that was used to rate the primary impairment (Enderby and John 2019). The Core Scale is coded as 0 (zero).	Required - to identify the TOMs scale used to rate the patient
Rating ID	A rating identifier can take any alpha numeric form. For the purposes of TOMs, a rating is a single set of scores collected across the domains of TOMs at a single point in time and will contain scores for: Impairment (primary/secondary) Activity (primary/secondary) Participation Wellbeing Carer Wellbeing – optional	Desirable – to tie together scores into a rating (if this is not available, the date that the rating was made may serve the purpose)
Rating Type	S = Admission/Initial Assessment/First Rating/Start of Episode I = Interim/On-Going (optional) F = End of Episode/Final Rating/Discharge	Required – to determine the sequence of ratings in an episode of care
Rating Date	The date the TOMs ratings was made	Required – to enable outcomes over time to be tracked

Field	Description	Required/Desirable/Optional
	The domain of the TOMs being scored: Impairment (Primary)	
	Impairment (Secondary) – optional	
TOMs Domain ³	Activity (Primary)	Required – to link scores with domains of the
	Activity (Secondary) – optional	TOMs
	Participation	
	Wellbeing	
	Carer Wellbeing – optional	
	Numerical value for the TOMs score for the domain: 0, 0.5, 1, 1.5, 2,	
	2.5, 3, 3.5, 4, 4.5, 5	
TOMs score	(Zero is the severe / profound end of the scale, five is the normal	Required
	end of the scale)	Keyuneu
	Any TOMs domains where a TOMs score is not applicable should be left blank (null).	
	A description of the reason for the end of the episode/discharge.	
	The standard list used in the ROOT is: Advice only (no intervention);	
End-of-	Declined treatment; Did not attend; Died; Different intervention	
episode/Discharge	required; End of episode of care (to be reviewed); Intervening	Optional
Code/Description	illness/medically unwell; Moved out of area; Recovered (therapy not	
	required); Therapy complete (discharged); Therapy no longer	
	appropriate; Transferred to another service; Unknown/other	
Deprivation Decile	The level of deprivation in the area where the person usually lives,	
(available for England,	as determined by their postcode. Numerical value from 1 to 10 or	Optional – for services who choose to collect this
Northern Ireland, Scotland or Wales)	alternative 'no fixed address'.	data

³ Some TOMs scales do not follow the typical pattern and have additional domains. Refer to the latest version of the Therapy Outcome Measures User Guide for details.

Field	Description	Required/Desirable/Optional
Direction of care	The objective of the episode of care. The options are: Improve;	Optional – for services who choose to collect this
	Sustain; Manage decline	data
Interpreter required?	Whether an interpreter is needed at some point in patient care i.e.	Optional – for services who choose to collect this
	yes or no.	data
Method of service	Whether interventions were delivered: Face to face (in-person) only;	Optional – for services who choose to collect this
delivery	Remote only; Mixed (face to face and remote)	data
Patient ethnicity	The person's self-reported ethnicity. Services can choose to use on	Optional – for services who choose to collect this
	of the standard lists on ROOT or set locally determined categories.	data
Patient language(s)	Whether the person uses or has exposure to languages other than	Optional – for services who choose to collect this
	English and Welsh. The options are English / Welsh only; English /	data
	Welsh and other language(s); No English / Welsh	
Total time	Numerical value for total time, in minutes, taken to complete the	Optional – for services who choose to collect this
	episode of care. Any whole number can be entered.	data
Total number of	Numerical value for the total contacts for intervention during the	Optional – for services who choose to collect this
contacts	completed episode of care. Any whole number can be entered.	data
	These are data items that are deemed useful, and created by	
	participating services. They are only available to the service that	
	created them. They may be used to increase the value of the data to	
Local/user-defined fields	the local service by ensuring the data better matches local	Optional
	structures, practices and reporting requirements. As these fields	
	are under the control of the local service, their own organisation's	
	information governance frameworks must be adhered to.	