

ROOT

Lauren Longhurst
Research Officer



RCSLT Online Outcome Tool

Supporting the delivery of quality services

The RCSLT Outcomes Programme



Initiated in 2013 to respond to drivers internal and external to the profession

INTERNAL	EXTERNAL
Demonstrating the impact of SLT interventions	Outcome measurement not embedded - historical focus on inputs, processes & outputs
Contribution to local, regional & national outcomes	Use of terminology & definitions
Supporting service evaluation	Few validated outcome measures
Developing the evidence base	National policies and frameworks
Supporting business case development	Outcomes based commissioning

The RCSLT Outcomes Programme



- RCSLT Board of Trustees opted for a pragmatic approach: identifying an existing outcome measure to begin to gather consistent data for the SLT profession
 - **Initial phase:** find an existing outcome measurement tool that will meet 'best fit' criteria agreed by members
 - **Subsequent phases:** identify how to fill gaps and look at other approaches (not defined in detail)



Influencing national policy on data and outcomes

RCSLT led outcomes work

RCSLT Online Outcome Tool

**Measuring the impact of children's universal/targeted
SLT services**

**Measuring the impact of non-patient attributable work
in ALD services**

Developing more specific measures for each clinical area



Influencing national policy on data and outcomes

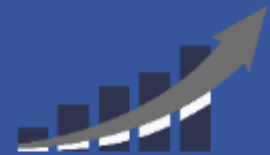
RCSLT led outcomes work

RCSLT Online Outcome Tool

Measuring the impact of children's universal/targeted SLT services

Measuring the impact of non-patient attributable work in ALD services

Developing more specific measures for each clinical area



Identified an existing outcome measure that was the 'best fit' for data collection across the SLT profession

Developed and piloted an online tool to support with data collection and reporting – the RCSLT Online Outcome Tool (ROOT)

Evaluation of the pilot indicated that the ROOT added value to the services

Roll-out of the ROOT across the SLT profession using a phased approach



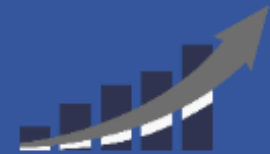
Identified an existing outcome measure that was the 'best fit' for data collection across the SLT profession



Developed and piloted an online tool to support with data collection and reporting – the RCSLT Online Outcome Tool (ROOT)



Evaluation of the pilot indicated that the ROOT added value to the services



Roll-out of the ROOT across the SLT profession using a phased approach

RCSLT members' 'best fit' criteria



Table one: The 11 criteria agreed for existing outcome measures at the October 2013 and subsequent RCSLT Hub meetings

1. Is it reliable?
2. Is it valid?
3. Is it suitable across key client groups?
4. Is training available?
5. Is it easy to access?
6. Is it easy and quick to use?
7. Is it compatible with existing tools?
8. Can it work with the main areas of SLT practice and current priorities?
9. Can it capture long term/ultimate outcomes?
10. Can it take account of different stakeholders' priorities for outcomes?
11. Can it capture the range of service elements provided: interventions, training, adaptations to the environment, universal level etc?

Identifying an existing outcome measure



- Therapy Outcomes Measure (TOMs) (Enderby, John and Petheram, 2006)¹ was identified as the measure most fit for purpose
- It was acknowledged that:
 - The adoption of TOMs was a starting point for the profession's journey on outcome measurement
 - TOMs would not be used as a 'stand-alone' option but employed alongside other outcome measures and other tools/frameworks
 - TOMs is not applicable across all clinical areas and settings (e.g. universal services/Public Health) and parallel RCSLT work-streams would be established to consider how to fill these gaps

¹ *Third edition available (Enderby and John, 2015)*

Therapy Outcome Measures

Enderby and John (2011)

- TOMs scales address four dimensions of an individual in line with the International Classification of Functioning, Disability and Health (WHO, 2007):
 - **Impairment** - the severity of the presenting difficulty/condition
 - **Activity** - the impact of the difficulty on the individual's level of independence
 - **Participation** – impact on levels of social engagement and autonomy
 - **Wellbeing** – impact on mental and emotional wellbeing
- Each dimension is measured on an 11-point ordinal scale with six defined descriptors, ranging from 0 (worst case scenario), to 5 (best possible presentation).

0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

With CD
Therapy Outcome Measures
for Rehabilitation Professionals
Third Edition



Pamela Enderby and Alexandra John

• Revised and Updated
• Now Includes 47 Scales
• Gives Examples of Use



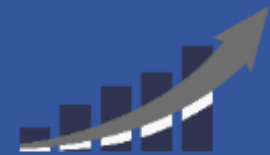
Identified an existing outcome measure that was the 'best fit' for data collection across the SLT profession



Developed and piloted an online tool to support with data collection and reporting – the RCSLT Online Outcome Tool (ROOT)



Evaluation of the pilot indicated that the ROOT added value to the services



Roll-out of the ROOT across the SLT profession using a phased approach

The RCSLT Online Outcome Tool

ROYAL COLLEGE OF
SPEECH & LANGUAGE
THERAPISTS



- The RCSLT Online Outcome Tool (ROOT) is being developed to support practitioners with:
 - Collecting and collating outcomes data using two methods:

Direct data entry

- Data is entered directly into the ROOT

Data upload

- Data collected in local electronic systems is exported and uploaded to the ROOT

- Evaluating and reporting outcomes

Therapy Outcome Measures

[Home](#) | [My Dashboard](#) | [Patients](#) | [Reports](#) | [Resources](#) | [Secure File Upload](#) | [Import Data](#) | [Admin](#) | [Site Admin](#)

You are here: [Home](#) → [Patient Search](#) → [Anonymous Patient \(7465\)](#) → [Episode](#) → [Start of Episode \(23 Mar 2018\)](#)

Communication and Swallowing Disorder (Primary): Receptive language disorder;

Primary TOMs Scale: Child Language Impairment

Date of rating: 23 Mar 2018

Rating Type: Start of Episode

Impairment (Child Language Impairment):	N/A	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	Edit
---	-----	---	-----	---	-----	---	-----	---	-----	---	-----	---	----------------------

Activity (Child Language Impairment):	N/A	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	Edit
---	-----	---	-----	---	-----	---	-----	---	-----	---	-----	---	----------------------

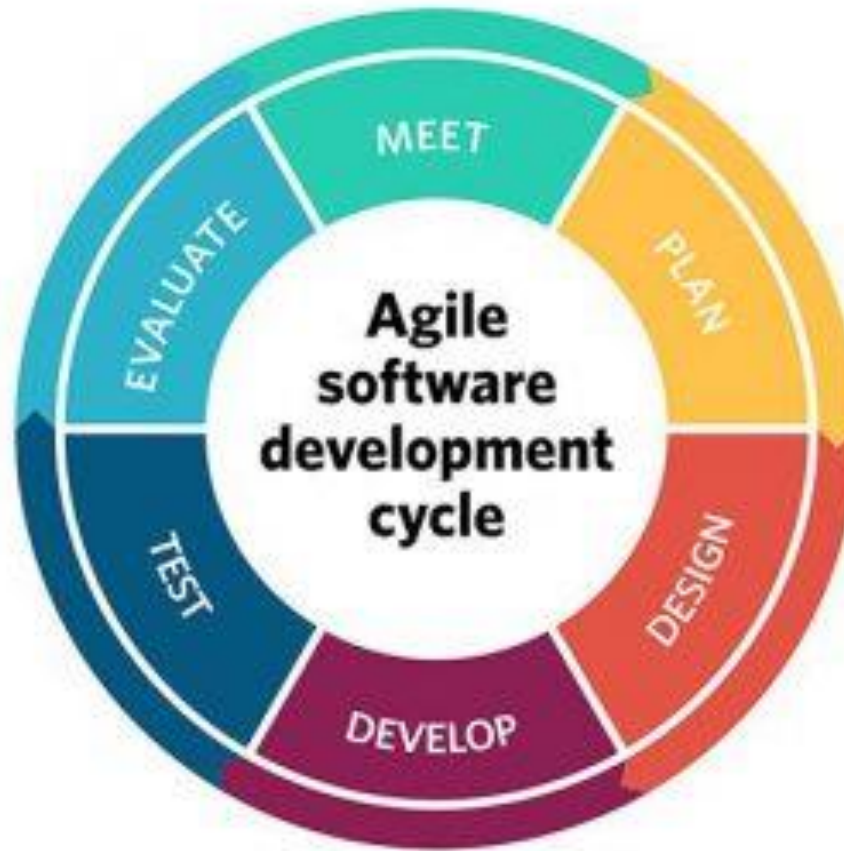
Participation:	N/A	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	Edit
----------------	-----	---	-----	---	-----	---	-----	---	-----	---	-----	---	----------------------

Wellbeing:	N/A	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	Edit
------------	-----	---	-----	---	-----	---	-----	---	-----	---	-----	---	----------------------

Carer Well Being:	N/A	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	Edit
----------------------	-----	---	-----	---	-----	---	-----	---	-----	---	-----	---	----------------------

[Back to Episode of Care](#)

Developing and testing the RCSLT Online Outcome Tool



Source: <https://project-management.com/10-key-principles-of-agile-software-development/>

ROOT pilot sites & early adopters

Northern Ireland

3 pilot sites

1 expression of interest

Wales

2 pilot sites

5 expressions of interest

Scotland

1 pilot site

7 expressions of interest

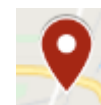
England

21 pilot sites

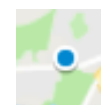
119 expressions of interest



Key



Pilot site/early adopter

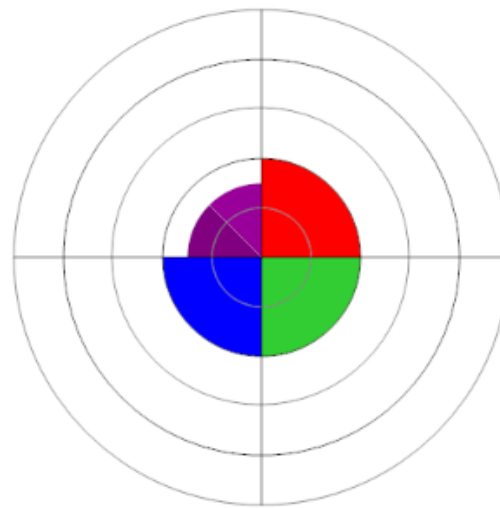


Expression of interest

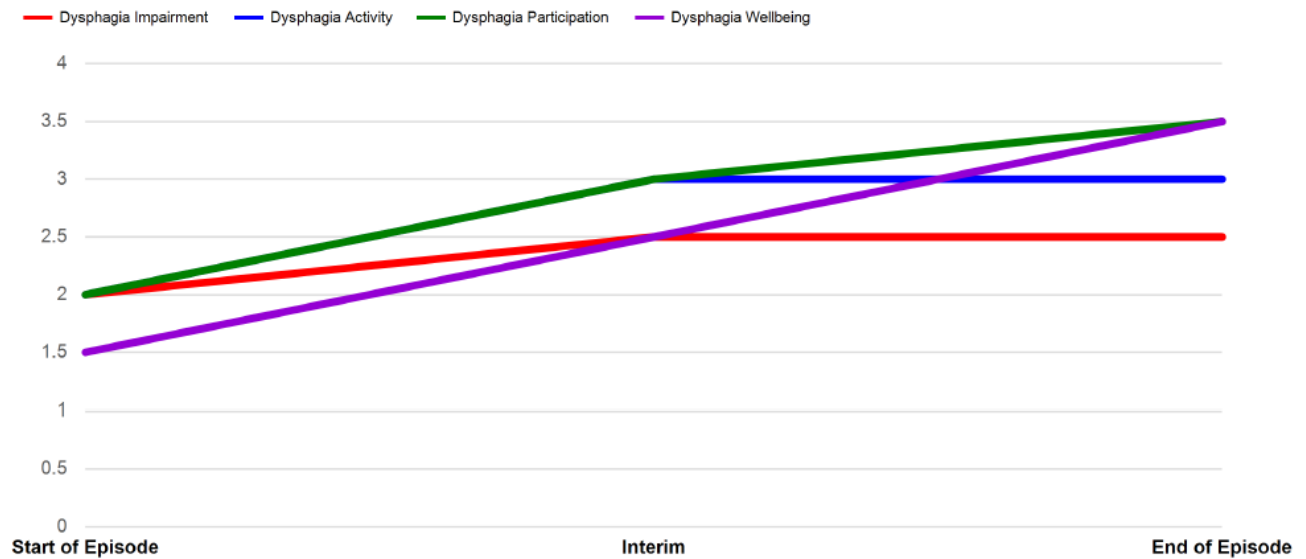
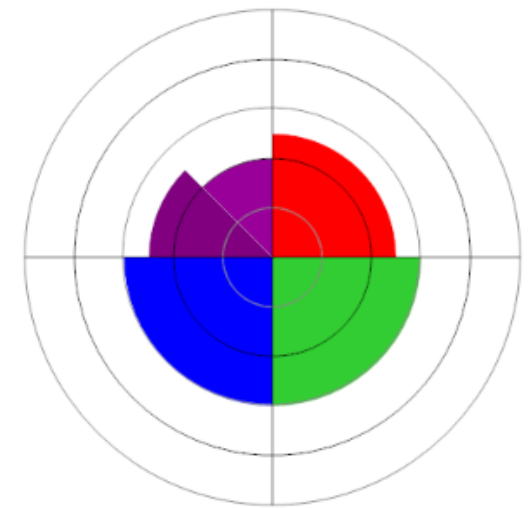


Individual
service user

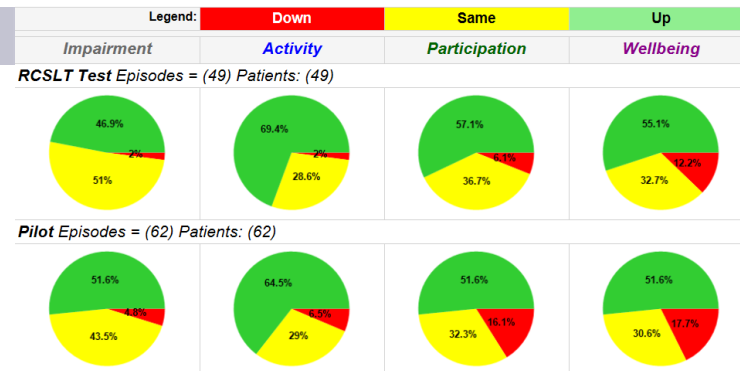
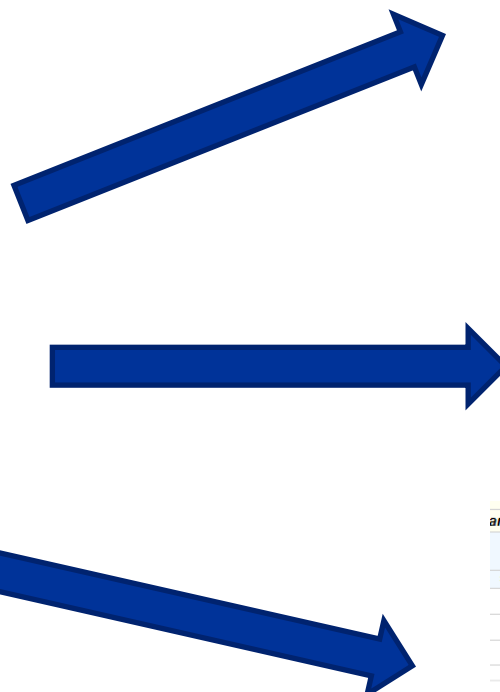
Start of Episode - 01 Sep 2016



Interim - 20 Sep 2016



Groups of service users



	Average Type												
All Toms Scales Episodes: (49) Patients: (49)	Mean	2.77	3.11	0.35	2.73	3.28	0.54	2.57	3.09	0.52	2.54	3.1	0.56
	Median	3	3	0.5	3	3.5	0.5	2.5	3	0.5	3	3	0.5
Cleft Lip or Palate Episodes: (8) Patients: (8)	Mean	2.94	3	0.06	3	3.25	0.25	2.69	3	0.31	2.81	2.88	0.06
	Median	3	3	0.25	3	3.5	0.25	2.75	3	0.5	3	2.75	0
Dysfluency Episodes: (10) Patients: (10)	Mean	3.15	3.5	0.35	3.1	3.4	0.3	2.5	2.95	0.45	2.55	2.95	0.4
	Median	3.25	3.5	0.75	2.75	3.25	0.25	2.5	3	0.5	2.75	3	0.5
Dysphagia Episodes: (23) Patients: (23)	Mean	2.33	2.72	0.39	2.33	3.04	0.72	2.2	2.93	0.74	2.13	3	0.87
	Median	2.5	2.75	0.25	2.5	2.75	0.75	2	2.5	0.5	2.25	2.75	0.75
Dysphonia Episodes: (8) Patients: (8)	Mean	3.83	4.17	0.33	3.75	4.08	0.33	4.17	4.08	-0.08	4.08	4	-0.08
	Median	3.75	4	0.25	3.5	3.75	0.25	4	3.75	-0.25	4	3.75	-0.25





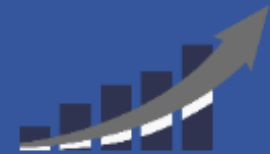
Identified an existing outcome measure that was the 'best fit' for data collection across the SLT profession



Developed and piloted an online tool to support with data collection and reporting – the RCSLT Online Outcome Tool (ROOT)



Evaluation of the pilot indicated that the ROOT added value to the services



Roll-out of the ROOT across the SLT profession using a phased approach

Applications of the reports



Individual clinicians

"Easy to see patterns and where we are actually having an impact on our clients' lives"

"It all makes doing TOMs more worthwhile for everyone"

SLT teams/services

"enabled quicker analysis and a greater range of information and detail"

"We are starting to look at how/what area therapy benefits the clients"

"able to demonstrate to directorates and management more detail regarding clinical outcomes and value of SLT"

Sample report: Dysphagia outcomes

	Impairment			Activity			Participation			Wellbeing			Carer Wellbeing		
	Average Start	Average Final	Average Change	Average Start	Average Final	Average Change	Average Start	Average Final	Average Change	Average Start	Average Final	Average Change	Average Start	Average Final	Average Change
Dysphagia Episodes: (1549) Patients: (1459)	2.76	3.49	0.74	2.63	3.46	0.83	2.77	3.5	0.72	3.09	3.84	0.76	3.58	4.28	0.54

Figure 1: Average (mean) change in TOMs between start and final ratings across each domain of TOMs (Impairment, Activity, Participation, and Well-being) from 1 January 2017 – 31 December 2017

	Impairment			Activity			Participation			Wellbeing			Carer Wellbeing		
	Average Start	Average Final	Average Change	Average Start	Average Final	Average Change	Average Start	Average Final	Average Change	Average Start	Average Final	Average Change	Average Start	Average Final	Average Change
Dysphagia Episodes: (1195) Patients: (1140)	2.65	3.39	0.75	2.58	3.41	0.82	2.71	3.39	0.7	3.07	3.82	0.75	3.53	4.21	0.68

Figure 2: Average (mean) change in TOMs between start and final ratings across each domain of TOMs (Impairment, Activity, Participation, and Well-being) from 1 January 2018 – 31 December 2018

Sample report: Dysphagia outcomes

	Impairment			Activity			Participation			Wellbeing			Carer Wellbeing		
	Average Start	Average Final	Average Change	Average Start	Average Final	Average Change	Average Start	Average Final	Average Change	Average Start	Average Final	Average Change	Average Start	Average Final	Average Change
Dysphagia Episodes: (1549) Patients: (1459)	2.76	3.49	0.74	2.63	3.46	0.83	2.77	3.5	0.72	3.09	3.84	0.76	3.58	4.28	0.54

Figure 1: Average (mean) change in TOMs between start and final ratings across each domain of TOMs (Impairment, Activity, Participation, and Well-being) from 1 January 2017 – 31 December 2017

	Impairment			Activity			Participation			Wellbeing			Carer Wellbeing		
	Average Start	Average Final	Average Change	Average Start	Average Final	Average Change	Average Start	Average Final	Average Change	Average Start	Average Final	Average Change	Average Start	Average Final	Average Change
Dysphagia Episodes: (1195) Patients: (1140)	2.65	3.39	0.75	2.58	3.41	0.82	2.71	3.39	0.7	3.07	3.82	0.75	3.53	4.21	0.68

Figure 2: Average (mean) change in TOMs between start and final ratings across each domain of TOMs (Impairment, Activity, Participation, and Well-being) from 1 January 2018 – 31 December 2018

Sample report: Dysarthria outcomes

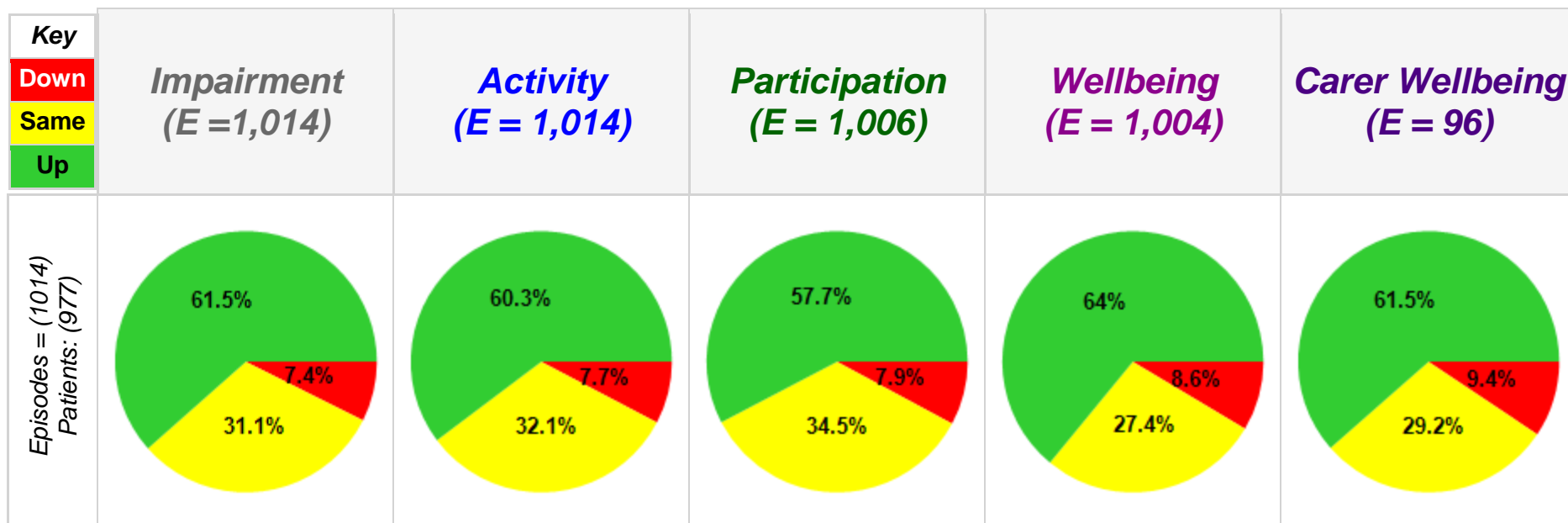


Figure 3: Report showing the direction of change in TOMs between initial and final ratings across each domain of TOMs (Impairment, Activity, Participation, and Well-being) for adults with dysarthria

Sample report: Dysarthria in association with stroke

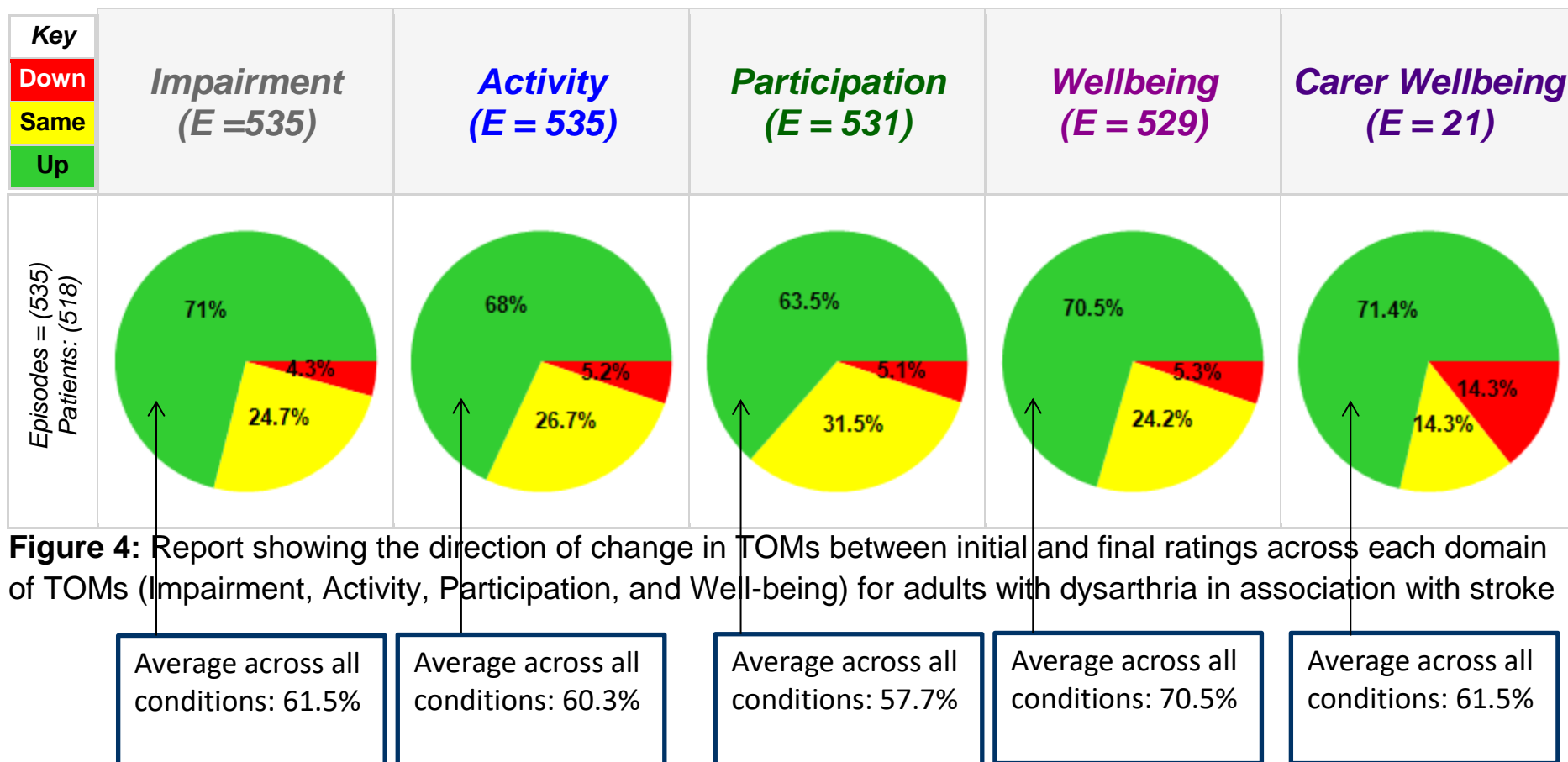
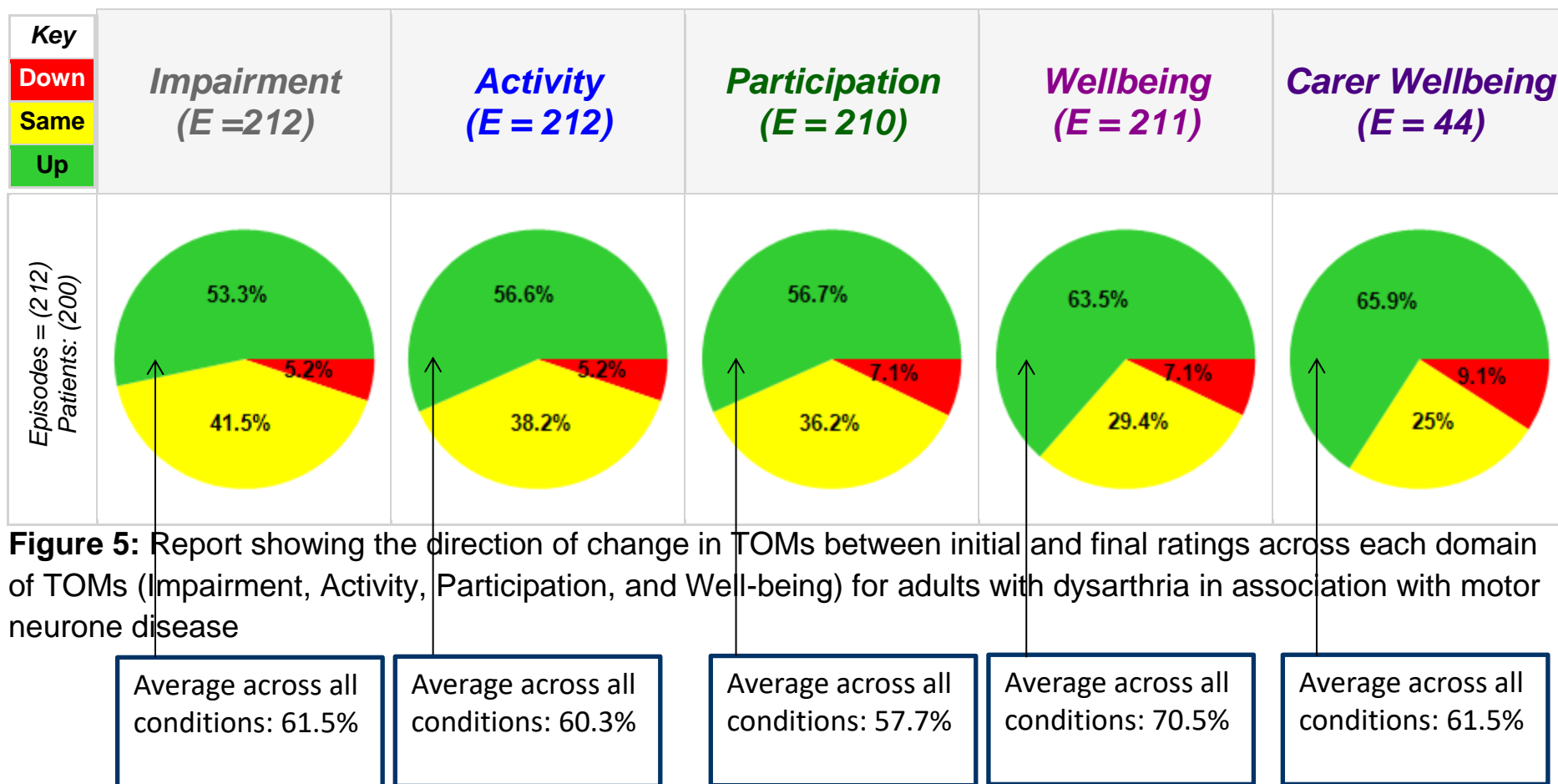


Figure 4: Report showing the direction of change in TOMs between initial and final ratings across each domain of TOMs (Impairment, Activity, Participation, and Well-being) for adults with dysarthria in association with stroke

Sample report: Dysarthria in association with motor neurone disease



How the ROOT is supporting speech and language therapists to deliver quality services?



Our [webinar](#) provides some detailed examples of how the outcomes data is being used by services, including:

- Supporting individual clinicians with their clinical decision making and to inform patient care
- Evaluating the effectiveness of interventions and areas for improvement
- Supporting service improvement, planning and redesign
- Providing information about the impact of speech and language therapy to key stakeholders, including funders and commissioners



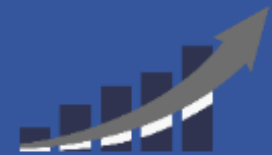
Identified an existing outcome measure that was the 'best fit' for data collection across the SLT profession



Developed and piloted an online tool to support with data collection and reporting – the RCSLT Online Outcome Tool (ROOT)



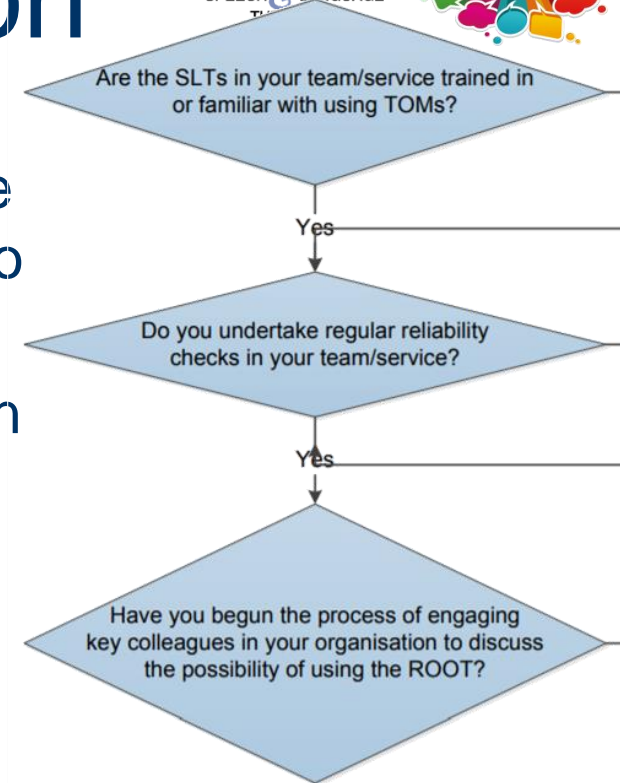
Evaluation of the pilot indicated that the ROOT added value to the services



Roll-out of the ROOT across the SLT profession using a phased approach

Phased approach to implementation

- The RCSLT is rolling out the ROOT across the speech and language therapy profession using a phased approach while continuing to iterate the tool in response to feedback
- Over 150 SLT services have expressed an interest to date – includes SLTs services across the UK working in a range of clinical areas, settings and organisations
- Supporting 'early adopters' to implement the ROOT in their service by working through a [flowchart](#) and continuing to develop and refine resources to support with implementation



Are you ROOT-ready?

Are the SLTs in your team/service trained in
or familiar with using TOMs?



Do you undertake regular reliability
checks in your team/service?

Are you ROOT-ready?



Will you be using the “**direct data entry**” method or the “**data upload**” method to share your data with the ROOT?

Direct data entry

- Data is entered directly into the ROOT

Data upload

- Data collected in local electronic systems is exported and uploaded to the ROOT

Are you ROOT-ready?



Have you begun the process of engaging key colleagues in your organisation to discuss the possibility of using the ROOT?



Has your organisation completed the data processing agreement with Different Class Solutions Ltd?

Are you ROOT-ready?



A member of the team at RCSLT will be in contact with information about:

- ROOT training
- Setting up users on the ROOT
- Practical hints and tips for getting started

Resources to support implementation

(updated in line with GDPR)



Getting ready to use the ROOT

- ROOT-ready flowchart
- Briefing pack
- Information governance pack
- Data specification

<https://rcslt-root.org/Content/getting-ready-to-use-the-root>

Training and support

- Training modules
- FAQs