Figure F1   Flow of participants

Total potentially eligible stroke admissions 1st Dec 2010 – 30th April 2013 (n=3833)

Total stroke admissions during recruitment window (n=2156) *includes 11 months before start of recruitment

Identified by therapists as potential participants (n=102)

Exclusions (n=42)[1]
Not discharged home (n=9)
No remaining upper limb movement deficit (n=28)
Pre-stroke pathology of stroke-affected upper limb (n=1)
Unable to lift hand off lap (n=3)
Severe fixed contractures of elbow and wrist (n=1)
More than 12 months post-stroke (n=1)
Died before approach (n=1)

PIL provided and referred as eligible by therapists (n=60)

Exclusions (n=8)
Did not consent to referral but agreed to details being recorded (n=2):
Why bother at my age? (n=1)
No reason given (n=1)

Did not consent to referral or details being recorded (n=6)
Unable to contact (n=3)
Inappropriate to approach (n=1)[2]
No reason given (n=2)

Consented to referral to research team (n=52)

Exclusions (n=4)
Did not consent to trial but agreed to details being recorded (n=1):
Making good progress (n=1)

Did not consent to trial or details being recorded (n=3)
Unable to contact (n=1)
Inappropriate to approach (n=1)
No reason given (n=1)

Consented to trial (n=48)

Patient consent to assess carer strain index (n=26)

Exclusions (n=1):
Patient withdrawal (n=1)

Carer consent to assess carer strain index (n=12)

Baseline assessment (n=47)
Action Research Arm Test (ARAT) (n=47)
Wolf Motor Function Test (WMFT) (n=47)
Motor Activity Log (MAL) (n=46)
Stroke Impact Scale (SIS) (n=47)

Carer strain index assessment:
At 3 months (n=9)
At 6 months (n=6)

Continued on next page

Randomised (n=47)

Allocated to Reach to Grasp group (n=24)
(6 weeks of task-specific training)

Allocated to Usual Care group (n=23)
(6 weeks of usual care)

Exclusions (n=0)

Exclusions (n=0)

Included in analysis population (n=24)

Included in analysis population (n=23)

Exclusions (n=1):
Patient withdrew after intervention, diagnosed with another health problem, happy for data collected to be used (n=1)

Exclusions (n=1)
Patient lost to follow-up (n=1)

7 week follow-up data available (n=23)[3]
Action Research Arm Test (ARAT) (n= 23)
Wolf Motor Function Test (WMFT) (n=23)
Motor Activity Log (MAL) (n=21)
Stroke Impact Scale (SIS) (n=23)

7 week follow-up data available (n=22)[3]
Action Research Arm Test (ARAT) (n= 22)
Wolf Motor Function Test (WMFT) (n= 21)
Motor Activity Log (MAL) (n=20)
Stroke Impact Scale (SIS) (n=22)

Exclusions (n=1)
Patient lost to follow-up (n=1)

3 month follow-up data available (n=23)
Action Research Arm Test (ARAT) (n= 23)
Wolf Motor Function Test (WMFT) (n=23)
Motor Activity Log (MAL) (n=20)
Stroke Impact Scale (SIS) (n=22)

3 month follow-up data available (n=21)
Action Research Arm Test (ARAT) (n= 21)
Wolf Motor Function Test (WMFT) (n=20)
Motor Activity Log (MAL) (n=18)
Stroke Impact Scale (SIS) (n=21)

Exclusions (n=1)
Patient lost to follow-up (n=1)

**6 month follow-up data available
(n=16 of 17)[4]**
Action Research Arm Test (ARAT) (n= 16)
Wolf Motor Function Test (WMFT) (n=16)
Motor Activity Log (MAL) (n=14)
Stroke Impact Scale (SIS) (n=15)

**6 month follow-up data available
(n=16 of 19)[4]**
Action Research Arm Test (ARAT) (n=16)
Wolf Motor Function Test (WMFT) (n=15)
Motor Activity Log (MAL) (n=15)
Stroke Impact Scale (SIS) (n=16)

Notes:
[1] *Some patients may be ineligible for more than one reason*
[2] *due to recent bereavement and discharge to nursing home*
[3] *Number of patients with <u>any</u> outcome data available*
[4] *study was stopped before 11 patients reached 6 month follow-up*

Table 1: "Other" reasons for exclusions

Table not required as all available information included in flowchart

Table 2: Protocol deviations

	Randomised to RTG (n=24)		Randomised to usual care (n=23)		Total (n=47)	
	n	%	n	%	n	%
Any protocol deviation	**7**	**29%**	**0**	**0%**	**7**	**15%**
Did not receive allocated treatment	0	0%	0	0%	0	0%
Did not complete the full course of treatment[1]	7	29%			7	15%
Did not meet eligibility criteria	0	0%	0	0%	0	0%

[1] Note: This follows the definition in the SAP (i.e. any visits with visit duration=0 or missing, or treatment duration=0 or missing). However examining the reasons (below in Table 3) may mean that we don't wish to consider some of these as protocol deviations

Table 3: Full details of protocol deviations

Patient ID:　　　　　　　**1010**

Site:　　　　　　　　　　**NBT**

Number of completed visits:　**13**

Comments:

Missed visit 1　　　　Unable to complete visit 6 due to staffing shortage.

- -

Patient ID:　　　　　　　**1036**

Site:　　　　　　　　　　**NBT**

Number of completed visits:　**12**

Comments:

Missed visit 1　　　　Visit not completed due to shoulder pain.

Missed visit 2　　　　Visit not completed due to shoulder pain.

- -

Patient ID: **2009**

Site: **UHB**

Number of completed visits: **6**

Comments:

  Missed visit 1   Day before treatment due to commence, participant admitted to hospital with TIA (reported as SAE) therefore unable to complete first 2 visits.

  Missed visit 2   Day before treatment due to commence, participant admitted to hospital with TIA (reported as SAE) therefore unable to complete first 2 visits.

  Missed visit 3   Visited participant who reported fall from wheelchair and not able to do therapy due to shoulder pain.

  Missed visit 4   Participant contacted to say he is not able to do therapy again due to shoulder pain.

  Missed visit 5   Family problem.

  Missed visit 6   Tummy bug.

  Missed visit 7   Participant reports still not feeling well enough for visit.

  Missed visit 8   Visited for final visit but participant not available. Later managed to contact and reported still unwell and has gone to visit family.

Patient ID: **2023**

Site: **UHB**

Number of completed visits: **11***

Comments:

  Missed visit 1   Unable to complete visit as participant admitted to hospital for atrial ablation and post-operative complications. SAE form completed.

  Missed visit 2   Unable to complete visit as participant admitted to hospital for atrial ablation and post-operative complications. SAE form completed.

* One further visit took place but no data captured

Patient ID: **3013**

Site: **WAHT**

Number of completed visits: **13**

Comments:

  Missed visit 1   Phone call from son reporting that participant had diarrhoea and does not feel well enough for session therefore visit not completed.

Patient ID: **4002**

Site: **BCH**

Number of completed visits: **12**

Comments:

Missed visit 1	Unable to complete visit as participant admitted to hospital with head pain. SAE report completed.
Missed visit 2	Participant called to cancel visit as feeling unwell.

Patient ID: **5004**

Site: **NSCP**

Number of completed visits: **10**

Comments:

Missed visit 1	Main therapist (Paul Cunningham) on annual leave. Colin Domaille covering but only able to complete 2 visits this week.
Missed visit 2	Participant on holiday therefore unable to complete visit.
Missed visit 3	Participant on holiday therefore unable to complete visit.
Missed visit 4	Participant on holiday therefore unable to complete visit.

Table 4: Details of withdrawals *(Note: This was a table in the SAP but as there are only two withdrawals we have just listed all details)*

Study ID	**4013**
Decision for withdrawal	Patient withdrawal
Date of withdrawal	01mar2013
Timing of withdrawal	Before randomisation
Reason for withdrawal	
Is patient willing for data already collected to be used?	
If YES, willing for routine data collection to continue?	
If YES, willing to participate in follow-up?	
Any further details of withdrawal	

Study ID	**2009**
Decision for withdrawal	Patient withdrawal
Date of withdrawal	09apr2013
Timing of withdrawal	After intervention
Reason for withdrawal	Diagnosed with another health problem
Is patient willing for data already collected to be used?	Yes
If YES, willing for routine data collection to continue?	Yes
If YES, willing to participate in follow-up?	No
Any further details of withdrawal	Would like to receive letter at end of study informing of results.

Table 5: Characteristics of included and excluded patients

Not possible to produce this table as only 3 patients that did not consent to the trial consented to their details being stored (see table 6)

Figure 2: Recruitment
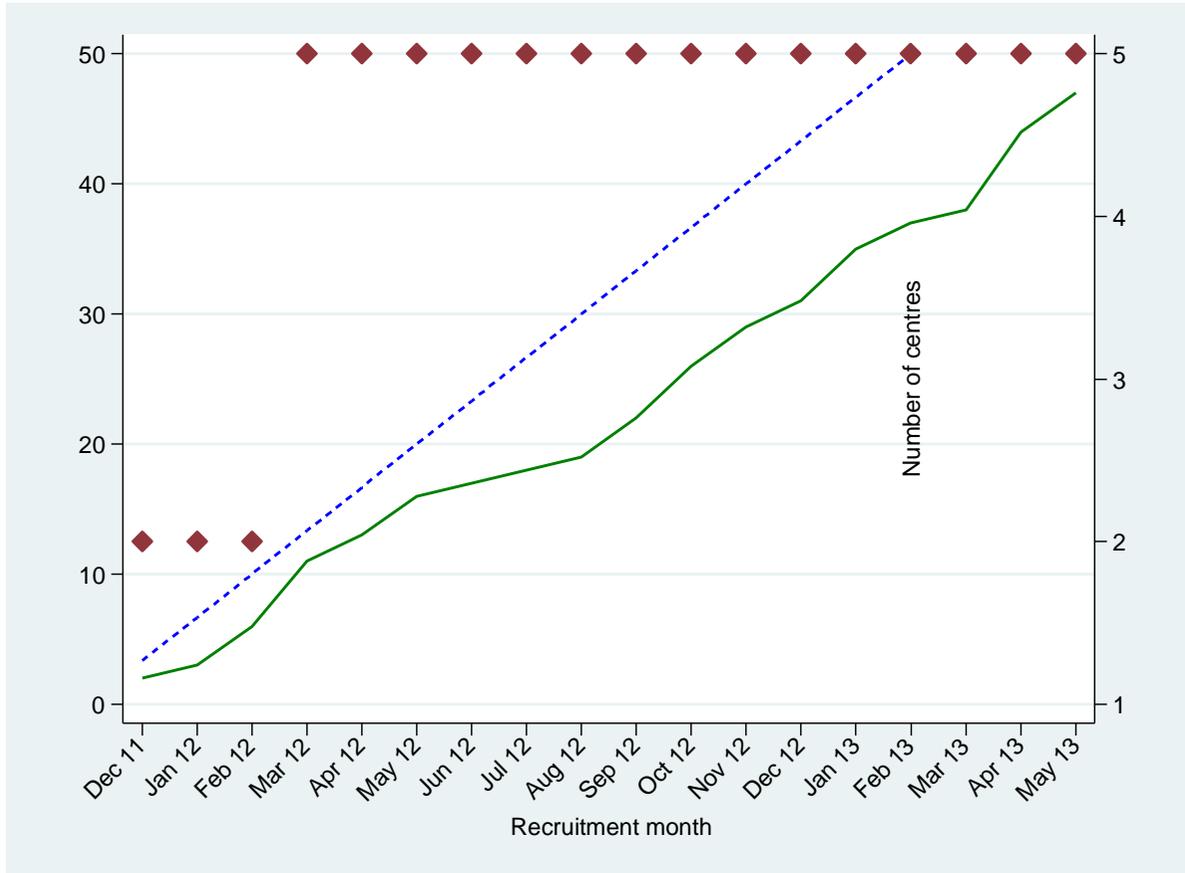
Table 6: Screening data by centre

Centre	Number months recruiting into study	Screened	Ineligible (% of screened patients)		Did not consent to trial but consented to details being kept	Did not consent to trial or details being kept	Consented (% of screened patients)	
		n	n	%	n	n	n	%
North Bristol Trust (NBT)	17	35	9	26%	1	5	20	57%
University Hospitals Bristol Foundation NHS Trust (UHB)	15	25	14	56%	1	0	10	40%
Weston Area Health Trust (WAHT)	15	18	12	67%	0	2	4	22%
Bristol Community Health (BCH)	17	15	7	47%	1	0	7	47%
North Somerset Community Partnership (NSCP)	15	9	0	0%	0	2	7	78%
Total	-	**102**	**42**	**41%**	**3**	**9**	**48**	**47%**

Table 7: Patient demography and past history

		Randomised to RTG (n=24)		Randomised to Usual Care (n=23)		Total (n=47)		Number of missing values	
		n	%	n	%	n	%	RTG	Usual care
BASELINE CHARACTERISTICS									
Gender (Male)		11	45.8%	10	43.5%	21	44.7%	0	0
Age (years) (Median, IQR)		66	(54.3, 75.1)	66.1	(57.6, 76.5)	66.1	(57.5, 75.2)	0	0
Lives alone		6	25.0%	4	17.4%	10	21.3%	0	0
Accommodation	Nursing home	1	4.2%	0	0.0%	1	2.1%	0	0
	Usual residence	23	95.8%	23	100.0%	46	97.9%	0	0
CENTRE									
Centre	NBT	10	41.7%	10	43.5%	20	42.6%	0	0
	UHB	5	20.8%	5	21.7%	10	21.3%	0	0
	WAHT	3	12.5%	1	4.3%	4	8.5%	0	0
	BCH	3	12.5%	3	13.0%	6	12.8%	0	0
	NSCP	3	12.5%	4	17.4%	7	14.9%	0	0
STROKE RELATED HISTORY									
Stroke type: infarct		18	75.0%	17	73.9%	35	74.5%	0	0
haemorrhage		6	25.0%	6	26.1%	12	25.5%	0	0
Thrombolysed		4	16.7%	7	30.4%	11	23.4%	0	0
Stroke subtype	TACS	7	29.2%	10	43.5%	17	36.2%	0	0
	PACS	6	25.0%	6	26.1%	12	25.5%	0	0
	LACS	3	12.5%	1	4.3%	4	8.5%	0	0
	N/A	6	25.0%	6	26.1%	12	25.5%	0	0
	Unknown	2	8.3%	0	0.0%	2	4.3%	0	0
Paresis of pre-stroke dominant side		14	58.3%	11	47.8%	25	53.2%	0	0
Time since stroke (months) (Median, IQR)		111.5	(82.0, 241.0)	135	(103.0, 171.0)	124	(88.0, 227.0)	0	0
Length of stay (days) (Median, IQR)		74.5	(49.5, 110.0)	80	(56.0, 121.0)	78	(53.0, 120.0)	0	0
Physio or OT		20	83.3%	20	87.0%	40	85.1%	0	0
Early Supported Discharge		14	58.3%	16	69.6%	30	63.8%	0	0
Outpatient		2	8.3%	3	13.0%	5	10.6%	0	0

	Randomised to RTG (n=24)		Randomised to Usual Care (n=23)		Total (n=47)		Number of missing values	
	n	%	n	%	n	%	RTG	Usual care
Botulinum Neurotoxin Therapy	1	4.2%	2	8.7%	3	6.4%	0	0
CO-MORBIDITIES								
Previous stroke or TIA	3	12.5%	2	8.7%	5	10.6%	0	0
Ischaemic heart disease	1	4.2%	7	30.4%	8	17.0%	0	0
Peripheral vascular disease	5	20.8%	4	17.4%	9	19.1%	0	0
Diabetes mellitus	0	0.0%	1	4.3%	1	2.1%	0	0
Hypertension	20	83.3%	14	60.9%	34	72.3%	0	0
Hyperlipidaemia	17	70.8%	11	47.8%	28	59.6%	0	0
Atrial fibrillation	7	29.2%	5	21.7%	12	25.5%	0	0
Arthritis affecting upper limb	3	12.5%	5	21.7%	8	17.0%	0	0
Depression	4	16.7%	3	13.0%	7	14.9%	0	0
COGNITIVE FUNCTION								
Montreal cognitive assessment (MOCA) (mean, SD)	21.1	(10.2)	19.6	(5.0)	20.3	(7.9)	12	11
HISTORY OF PAIN AND OEDEMA								
Shoulder pain	6	35.3%	9	81.8%	15	53.6%	6	7
Hand pain	5	29.4%	4	36.4%	9	32.1%	6	7
Hand oedema	4	23.5%	3	27.3%	7	25.0%	6	7

Notes:-

- *No summary stats presented for NIHSS variable as only 2 observations*

# Table 8: Functional Assessment: Action Research Arm Test (ARAT)

	Randomised to RTG (n=24)		Randomised to Usual care (n=23)		Total (n=47)		Number of missing values	
	n	%	n	%	n	%	RTG	Usual care
ARAT score at baseline (Median, IQR)	8.5	(3.0, 24.0)	4	(3.0, 14.0)	5	(3.0, 17.0)	0	0
Baseline ARAT score: strata 0-3	9	37.5%	9	39.1%	18	38.3%	0	0
4-28	11	45.8%	11	47.8%	22	46.8%	0	0
29-57	4	16.7%	3	13.0%	7	14.9%	0	0
ARAT score at 7 weeks (Median, IQR)	12	(3.0, 37.0)	4	(3.0, 23.0)	10	(3.0, 26.0)	1	1
ARAT score at 3 months (Median, IQR)	15	(4.0, 36.0)	4	(3.0, 28.0)	10.5	(3.0, 34.5)	1	2
ARAT score at 6 months (Median, IQR)	14.5	(3.5, 26.0)	4	(3.0, 30.0)	7	(3.0, 27.5)	8	7

1. **ARAT score at each time point:**

Graphs by Treatment group
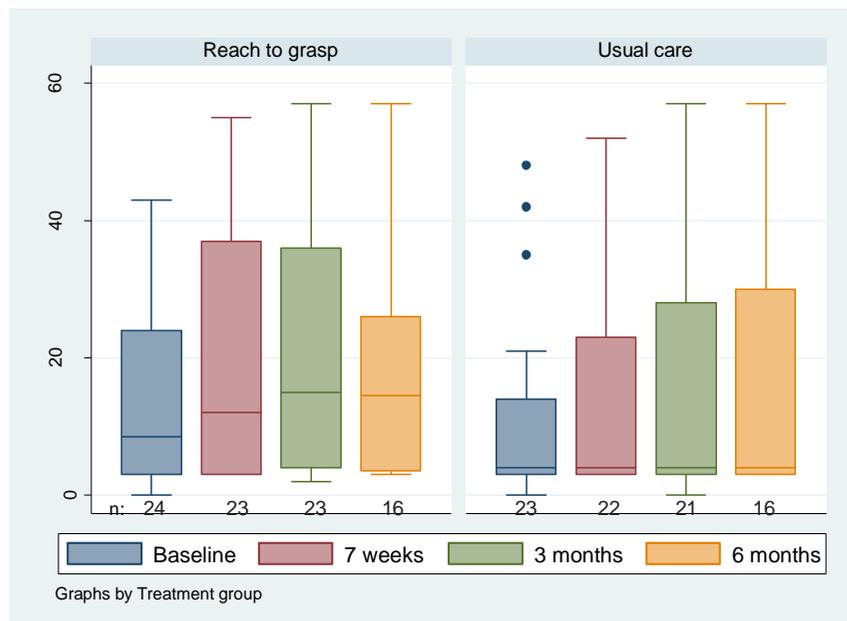
2. ARAT score at each time point by ARAT baseline score
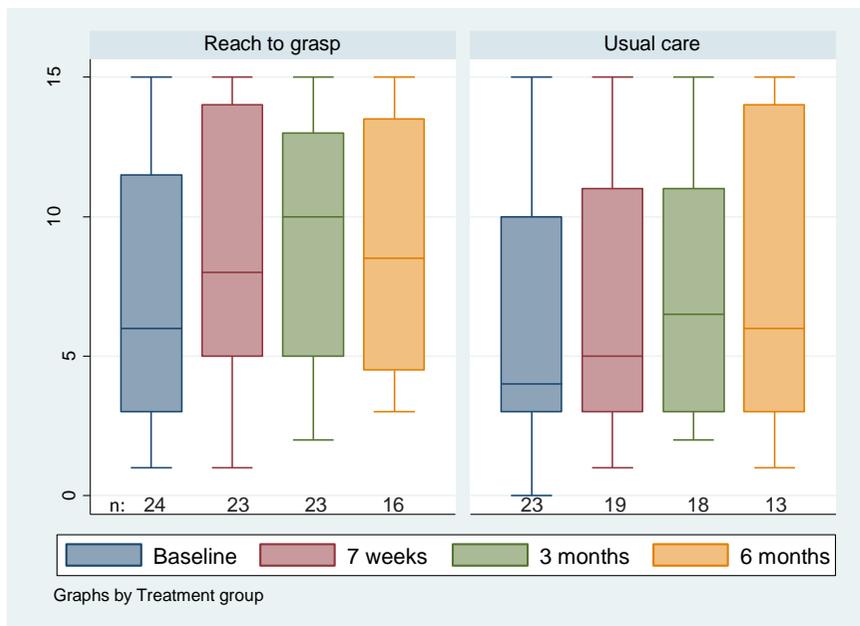
Reach to Grasp
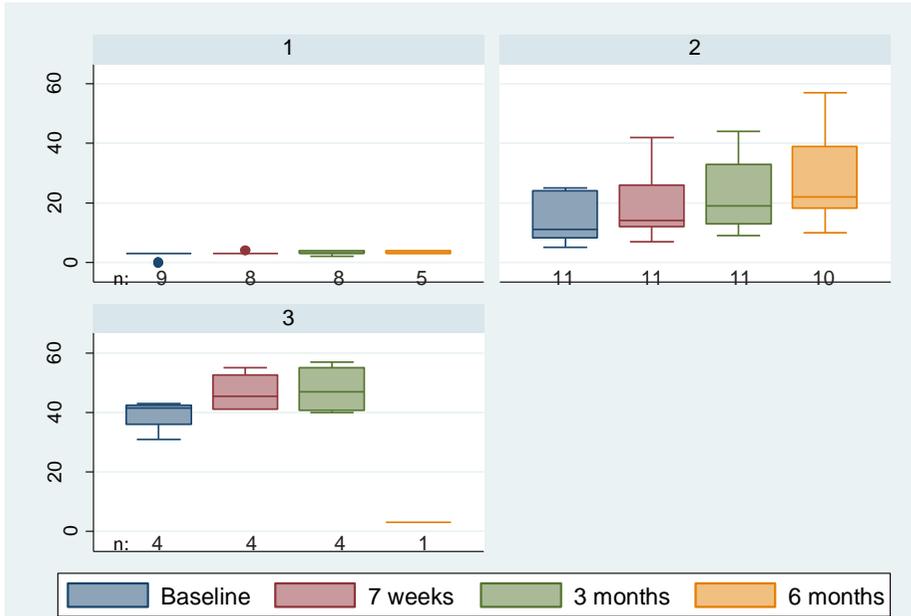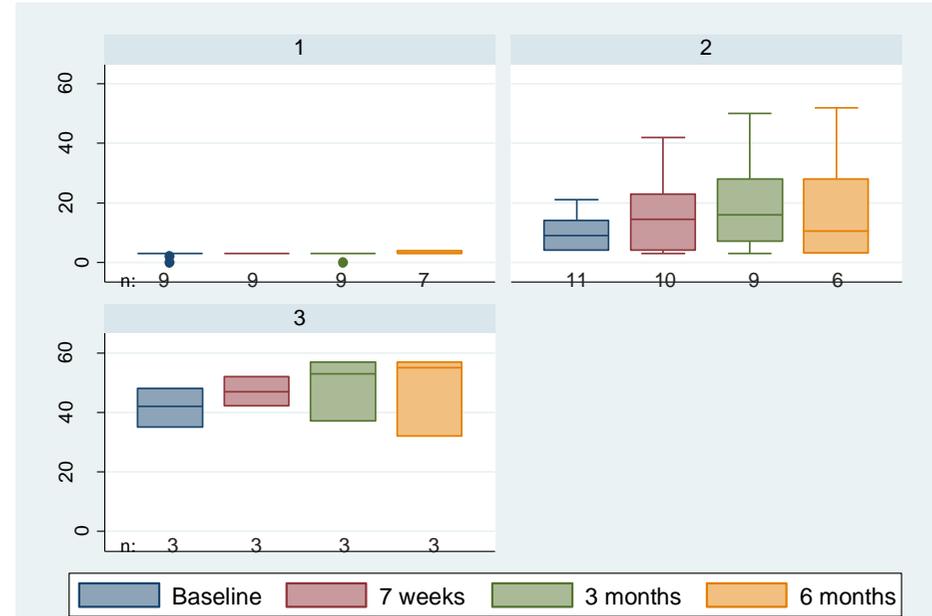
Usual care

Table 9: Functional Assessment: Wolf Motor Function Test (WMFT)

		Randomised to RTG (n=24)		Randomised to Usual care (n=23)		Total (n=47)		Missing* Not attempted		Missing* Failed (too slow)	
		Median	IQR	Median	IQR	Median	IQR	RTG n	Usual care n	RTG n	Usual care n
Number of tasks completed in under 120s	Baseline	6	(3.0, 11.5)	4	(3.0, 10.0)	6	(3.0, 10.0)	0	0		
	7 weeks	8	(5.0, 14.0)	5	(3.0, 11.0)	7	(3.0, 12.0)	1	4		
	3 months	10	(5.0, 13.0)	6.5	(3.0, 11.0)	8	(3.0, 12.0)	1	5		
	6 months	8.5	(4.5, 13.5)	6	(3.0, 14.0)	7	(3.0, 14.0)	8	10		
Median time for tasks 1 to 6	Baseline	2.5	(2.0, 5.0)	2	(2.0, 2.5)	2.5	(2.0, 5.0)	0	0	15	18
	7 weeks	2	(1.3, 2.5)	2	(2.0, 4.0)	2	(1.5, 3.0)	1	2	11	14
	3 months	2	(2.0, 2.5)	2.5	(1.0, 2.5)	2	(2.0, 2.5)	1	4	9	12
	6 months	3	(2.0, 3.0)	2	(1.0, 3.0)	2	(2.0, 3.0)	8	10	7	7
Median time for tasks 8 to 13	Baseline	8.5	(3.8, 16.3)	13	(3.8, 21.3)	9.3	(3.8, 20.0)	0	0	20	19
	7 weeks	5	(3.0, 8.0)	8	(2.0, 16.0)	5.5	(3.0, 8.0)	1	2	16	18
	3 months	6	(3.0, 7.0)	3	(2.8, 4.5)	4	(3.0, 7.0)	1	4	17	15
	6 months	6.5	(4.5, 9.3)	4	(2.5, 11.5)	5	(4.0, 10.5)	8	8	12	10
Median time for tasks 15 to 17	Baseline	17	(9.5, 30.0)	18.5	(12.0, 25.0)	17	(12.0, 25.0)	0	0	20	21
	7 weeks	8	(7.5, 10.0)	13	(12.0, 14.0)	10	(8.0, 12.0)	1	4	19	17
	3 months	8	(6.5, 10.5)	8	(5.0, 11.0)	8	(6.0, 11.0)	1	5	19	16
	6 months	14	(12.0, 16.0)	6	(5.0, 7.0)	7	(6.0, 12.0)	8	8	14	12
Median quality for all tasks	Baseline	1	(1.0, 3.0)	1	(1.0, 3.0)	1	(1.0, 3.0)	0	0		
	7 weeks	3	(1.0, 5.0)	1	(0.0, 3.0)	2	(0.0, 4.0)	3	5		
	3 months	3	(0.0, 5.0)	1	(0.0, 5.0)	2	(0.0, 5.0)	2	5		
	6 months	2	(0.0, 4.5)	0.5	(0.0, 5.0)	1	(0.0, 5.0)	8	9		
Median box weight (lb)	Baseline	1	(0.0, 3.0)	0.5	(0.0, 2.0)	1	(0.0, 2.0)	1	1		
	7 weeks	2	(0.0, 6.0)	0	(0.0, 1.5)	1	(0.0, 4.0)	3	3		
	3 months	2	(0.0, 6.0)	1	(0.0, 4.0)	1	(0.0, 6.0)	1	4		
	6 months	2	(0.0, 6.0)	0.5	(0.0, 6.0)	2	(0.0, 6.0)	9	9		
Median grip strength (kg)	Baseline	0	(0.0, 5.0)	0	(0.0, 3.0)	0	(0.0, 4.0)	1	0		

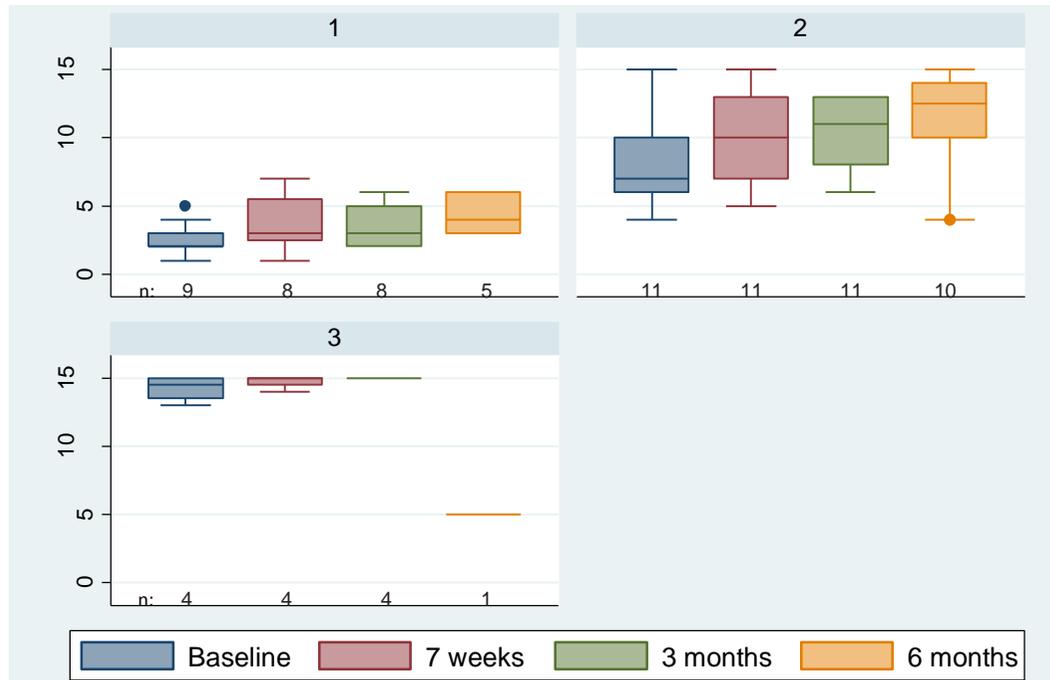| | | Randomised to RTG (n=24) | | Randomised to Usual care (n=23) | | Total (n=47) | | Missing* | | | |
| | | | | | | | | Not attempted | | Failed (too slow) | |
| | | | | | | | | RTG | Usual care | RTG | Usual care |
		Median	IQR	Median	IQR	Median	IQR	n	n	n	n
	7 weeks	2	(0.0, 7.0)	0	(0.0, 2.0)	0.5	(0.0, 5.5)	1	2		
	3 months	3	(0.0, 10.0)	0	(0.0, 2.0)	0	(0.0, 9.0)	2	5		
	6 months	1	(0.0, 8.0)	0	(0.0, 8.0)	0	(0.0, 8.0)	8	8		
Median time for all tasks	Baseline	8	(2.0, 10.0)	7.5	(4.0, 11.0)	8	(4.0, 10.0)	0	0	21	21
	7 weeks	3	(2.5, 4.0)	5	(3.0, 7.0)	3	(3.0, 5.0)	1	4	19	17
	3 months	2.5	(2.0, 3.0)	2.5	(2.0, 3.0)	2.5	(2.0, 3.0)	1	5	19	16
	6 months	4	(4.0, 4.0)	2	(1.0, 3.0)	2.5	(1.5, 3.5)	8	10	15	10

Here we have assumed that a time entry of '.' represents 'task not attempted' and an entry of '121' represents 'task failed'.

1. Number of tasks completed in under 120 seconds at each time point:

Graphs by Treatment group

2. Number of tasks completed in under 120 seconds at each time point by ARAT baseline score:

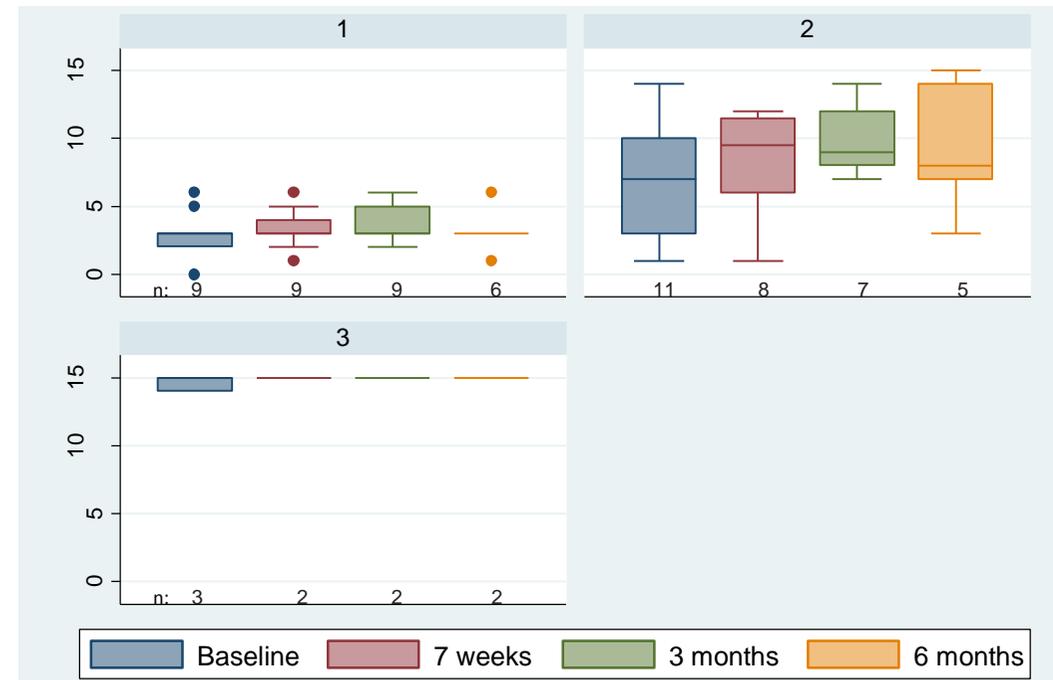**Reach to Grasp**

Usual care

Table 10: Functional Assessment: Motor Activity Log (MAL):

A: MEDIAN, IQR SUMMARIES

	Randomised to RTG (n=24)		Randomised to Usual care (n=23)		Total (n=47)		Number of missing values	
	Median	IQR	Median	IQR	Median	IQR	RTG	Usual care
Median quality ratings QoM								
Baseline	0	(0.0, 0.0)	0	(0.0, 0.0)	0	(0.0, 0.0)	1	0
7 weeks	0	(0.0, 1.0)	0	(0.0, 0.0)	0	(0.0, 1.0)	3	3
3 months	0	(0.0, 1.0)	0	(0.0, 0.0)	0	(0.0, 0.0)	4	5
6 months	0	(0.0, 2.0)	0	(0.0, 0.0)	0	(0.0, 1.5)	10	8
Median quality ratings AoU								
Baseline	0	(0.0, 0.0)	0	(0.0, 0.0)	0	(0.0, 0.0)	1	0
7 weeks	0	(0.0, 2.3)	0	(0.0, 0.0)	0	(0.0, 1.5)	4	3
3 months	0	(0.0, 1.5)	0	(0.0, 0.0)	0	(0.0, 0.0)	4	5
6 months	0	(0.0, 2.0)	0	(0.0, 0.0)	0	(0.0, 2.0)	10	8
Number of items scoring 3 or more, QoM								
Baseline	0	(0.0, 6.0)	0	(0.0, 3.0)	0	(0.0, 4.0)	1	0
7 weeks	3	(0.0, 12.0)	0	(0.0, 3.5)	1	(0.0, 8.0)	3	3
3 months	1.5	(0.0, 11.0)	0.5	(0.0, 6.0)	1	(0.0, 9.0)	4	5
6 months	2	(0.0, 8.0)	1	(0.0, 4.0)	1	(0.0, 4.0)	10	8
Number of items scoring 3 or more, AoU								
Baseline	0	(0.0, 6.0)	1	(0.0, 4.0)	0	(0.0, 4.0)	1	0
7 weeks	2	(0.0, 13.5)	1.5	(0.0, 4.5)	2	(0.0, 8.0)	4	3
3 months	2.5	(0.5, 10.5)	2	(0.0, 6.0)	2	(0.0, 10.0)	4	5
6 months	3	(1.0, 9.0)	3	(0.0, 5.0)	3	(1.0, 7.0)	10	8

Note: median and IQR used as distributions are skewed and median provides a better measure of central tendency than mean

B: CATEGORICAL SUMMARIES

QoM AND AoU SCORES: MEDIAN QUALITY RATINGS

Median quality ratings:	Randomised to RTG (n=24)		Randomised to Usual care (n=23)		Total (n=47)		Number of missing values	
	n	%	n	%	n	%	RTG	Usual care
QoM								
Baseline							1	0
0	18	78.3%	21	91.3%	39	84.8%		
0.5-2.5	4	17.4%	1	4.3%	5	10.9%		
3+	1	4.3%	1	4.3%	2	4.3%		
7 weeks							3	3
0	13	61.9%	16	80.0%	29	70.7%		
0.5-2.5	5	23.8%	2	10.0%	7	17.1%		
3+	3	14.3%	2	10.0%	5	12.2%		
3 months							4	5
0	15	75.0%	15	83.3%	30	78.9%		
0.5-2.5	1	5.0%	0	0.0%	1	2.6%		
3+	4	20.0%	3	16.7%	7	18.4%		
6 months							10	8
0	9	64.3%	12	80.0%	21	72.4%		
0.5-2.5	3	21.4%	2	13.3%	5	17.2%		
3+	2	14.3%	1	6.7%	3	10.3%		
AoU								
Baseline							1	0
0	18	78.3%	22	95.7%	40	87.0%		
0.5-2.5	4	17.4%	1	4.3%	5	10.9%		
3+	1	4.3%	0	0.0%	1	2.2%		
7 weeks							4	3
0	12	60.0%	16	80.0%	28	70.0%		
0.5-2.5	4	20.0%	3	15.0%	7	17.5%		
3+	4	20.0%	1	5.0%	5	12.5%		
3 months							4	5
0	14	70.0%	15	83.3%	29	76.3%		
0.5-2.5	2	10.0%	0	0.0%	2	5.3%		
3+	4	20.0%	3	16.7%	7	18.4%		
6 months							10	8
0	9	64.3%	12	80.0%	21	72.4%		
0.5-2.5	3	21.4%	2	13.3%	5	17.2%		
3+	2	14.3%	1	6.7%	3	10.3%		

QoM: NUMBER OF ITEMS SCORING 3 OR MORE

Number of items scoring 3 or more:	Randomised to RTG (n=24)		Randomised to Usual care (n=23)		Total (n=47)		Number of missing values	
	n	%	n	%	n	%	RTG	Usual care
QoM								
Baseline							1	0
0	13	56.5%	15	65.2%	28	60.9%		
1-5	4	17.4%	6	26.1%	10	21.7%		
6-10	5	21.7%	1	4.3%	6	13.0%		
11-15	0	0.0%	0	0.0%	0	0.0%		
16-20	1	4.3%	1	4.3%	2	4.3%		
21-25	0	0.0%	0	0.0%	0	0.0%		
26-28	0	0.0%	0	0.0%	0	0.0%		
7 weeks							3	3
0	6	28.6%	11	55.0%	17	41.5%		
1-5	7	33.3%	5	25.0%	12	29.3%		
6-10	2	9.5%	1	5.0%	3	7.3%		
11-15	3	14.3%	2	10.0%	5	12.2%		
16-20	1	4.8%	1	5.0%	2	4.9%		
21-25	2	9.5%	0	0.0%	2	4.9%		
26-28	0	0.0%	0	0.0%	0	0.0%		
3 months							4	5
0	8	40.0%	9	50.0%	17	44.7%		
1-5	5	25.0%	4	22.2%	9	23.7%		
6-10	2	10.0%	2	11.1%	4	10.5%		
11-15	3	15.0%	1	5.6%	4	10.5%		
16-20	1	5.0%	2	11.1%	3	7.9%		
21-25	0	0.0%	0	0.0%	0	0.0%		
26-28	1	5.0%	0	0.0%	1	2.6%		
6 months							10	8
0	5	35.7%	7	46.7%	12	41.4%		
1-5	4	28.6%	6	40.0%	10	34.5%		
6-10	3	21.4%	0	0.0%	3	10.3%		
11-15	0	0.0%	1	6.7%	1	3.4%		
16-20	1	7.1%	0	0.0%	1	3.4%		
21-25	1	7.1%	0	0.0%	1	3.4%		
26-28	0	0.0%	1	6.7%	1	3.4%		

AoU: NUMBER OF ITEMS SCORING 3 OR MORE

Number of items scoring 3 or more:	Randomised to RTG (n=24)		Randomised to Usual care (n=23)		Total (n=47)		Number of missing values	
							RTG	Usual care
	n	%	n	%	n	%		
AoU								
Baseline							1	0
0	14	60.9%	11	47.8%	25	54.3%		
1-5	2	8.7%	9	39.1%	11	23.9%		
6-10	6	26.1%	2	8.7%	8	17.4%		
11-15	0	0.0%	1	4.3%	1	2.2%		
16-20	1	4.3%	0	0.0%	1	2.2%		
21-25	0	0.0%	0	0.0%	0	0.0%		
26-28	0	0.0%	0	0.0%	0	0.0%		
7 weeks							4	3
0	6	30.0%	8	40.0%	14	35.0%		
1-5	5	25.0%	8	40.0%	13	32.5%		
6-10	3	15.0%	2	10.0%	5	12.5%		
11-15	2	10.0%	2	10.0%	4	10.0%		
16-20	2	10.0%	0	0.0%	2	5.0%		
21-25	2	10.0%	0	0.0%	2	5.0%		
26-28	0	0.0%	0	0.0%	0	0.0%		
3 months							4	5
0	5	25.0%	7	38.9%	12	31.6%		
1-5	7	35.0%	6	33.3%	13	34.2%		
6-10	3	15.0%	2	11.1%	5	13.2%		
11-15	2	10.0%	1	5.6%	3	7.9%		
16-20	2	10.0%	2	11.1%	4	10.5%		
21-25	0	0.0%	0	0.0%	0	0.0%		
26-28	1	5.0%	0	0.0%	1	2.6%		
6 months							10	8
0	3	21.4%	4	26.7%	7	24.1%		
1-5	6	42.9%	8	53.3%	14	48.3%		
6-10	3	21.4%	0	0.0%	3	10.3%		
11-15	0	0.0%	2	13.3%	2	6.9%		
16-20	2	14.3%	0	0.0%	2	6.9%		
21-25	0	0.0%	1	6.7%	1	3.4%		
26-28	0	0.0%	0	0.0%	0	0.0%		

Table 11: Functional Assessment: Stroke Impact Scale (SIS)

	Randomised to RTG (n=24)		Randomised to Usual care (n=23)		Total (n=47)		Number of missing values	
	Median	IQR	Median	IQR	Median	IQR	RTG	Usual care
Physical								
Baseline	41	(31.0, 56.0)	50	(31.0, 63.0)	44	(31.0, 63.0)	0	0
7 weeks	50	(38.0, 63.0)	53	(44.0, 56.0)	50	(44.0, 63.0)	1	1
3 months	50	(38.0, 63.0)	50	(38.0, 56.0)	50	(38.0, 63.0)	2	2
6 months	44	(38.0, 50.0)	38	(31.0, 56.0)	44	(31.0, 56.0)	9	7
Memory and thinking								
Baseline	77	(51.5, 94.5)	86	(54.0, 96.0)	79	(54.0, 96.0)	0	0
7 weeks	86	(71.0, 96.0)	75	(61.0, 100.0)	82	(68.0, 96.0)	1	1
3 months	82	(64.0, 96.0)	89	(79.0, 98.0)	89	(79.0, 96.0)	3	3
6 months	75	(54.0, 93.0)	80.5	(50.0, 100.0)	75	(54.0, 100.0)	9	7
Emotion								
Baseline	62.5	(57.0, 67.0)	58	(47.0, 67.0)	61	(53.0, 67.0)	0	0
7 weeks	61	(61.0, 69.0)	61	(53.0, 69.0)	61	(56.0, 69.0)	2	1
3 months	64	(53.0, 69.0)	61	(56.0, 65.5)	62.5	(56.0, 67.0)	2	3
6 months	67	(61.0, 69.0)	56	(50.0, 62.5)	61	(53.0, 67.0)	11	7
ADL								
Baseline	48	(35.0, 65.0)	50	(40.0, 68.0)	50	(37.5, 68.0)	1	2
7 weeks	51.5	(35.0, 70.0)	60	(45.0, 75.0)	57	(40.0, 72.5)	2	1
3 months	53	(33.0, 73.0)	61.5	(54.0, 72.5)	58.5	(45.0, 73.0)	2	3
6 months	57	(40.0, 75.0)	60	(50.0, 75.0)	57	(50.0, 75.0)	9	8
Mobility								
Baseline	61	(32.0, 78.0)	75	(50.0, 86.0)	69	(42.0, 81.0)	0	0
7 weeks	63.5	(44.0, 89.0)	75	(67.0, 89.0)	72	(58.0, 89.0)	2	2
3 months	81	(44.0, 89.0)	83	(72.0, 89.0)	83	(54.5, 89.0)	3	4
6 months	75	(53.0, 92.0)	78	(67.0, 89.0)	78	(64.0, 89.0)	9	8
Hand function								
Baseline	0	(0.0, 15.0)	0	(0.0, 5.0)	0	(0.0, 10.0)	0	0

	Randomised to RTG (n=24)		Randomised to Usual care (n=23)		Total (n=47)		Number of missing values	
	Median	IQR	Median	IQR	Median	IQR	RTG	Usual care
7 weeks	5	(0.0, 25.0)	0	(0.0, 20.0)	0	(0.0, 22.5)	1	2
3 months	0	(0.0, 35.0)	0	(0.0, 22.5)	0	(0.0, 30.0)	3	3
6 months	0	(0.0, 30.0)	7.5	(0.0, 20.0)	0	(0.0, 25.0)	11	7
Participation								
Baseline	41	(34.0, 53.0)	34	(25.0, 41.0)	38	(28.0, 47.0)	1	0
7 weeks	50	(38.0, 66.0)	47	(36.0, 59.0)	50	(38.0, 59.0)	1	3
3 months	50	(34.0, 66.0)	50	(38.0, 56.0)	50	(36.0, 61.0)	3	4
6 months	47	(34.0, 63.0)	48.5	(31.0, 66.0)	47	(31.0, 66.0)	11	9
Stroke recovery								
Baseline	40	(30.0, 50.0)	50	(40.0, 60.0)	45	(33.0, 60.0)	0	0
7 weeks	50	(40.0, 60.0)	50	(40.0, 60.0)	50	(40.0, 60.0)	1	2
3 months	50	(40.0, 60.0)	50	(40.0, 65.0)	50	(40.0, 60.0)	2	3
6 months	55	(30.0, 60.0)	50	(40.0, 65.0)	50	(35.0, 65.0)	9	8

Table 12: RTG treatment received, adherence and satisfaction

	Randomised to RTG (n=24)		Randomised to Usual care (n=23)		Total (n=47)		Number of missing values	
	Median	IQR	Median	IQR	Median	IQR	RTG	Usual care
TREATMENT INTENSITY								
Completed all 14 RtG intervention visits	16	66.7%			16	66.7%	0	
Number of visits out of 14 completed per participant	14	(13.0, 14.0)	10.5	(5.0, 14.0)	13.5	(10.0, 14.0)	0	5
Total treatment duration (hours)	8.4	(7.7, 9.3)	5.3	(4.2, 8.0)	8.1	(5.5, 9.1)	0	6
Average upper limb treatment per visit (mins) [2]	38.5	(35.4, 48.8)	38.6	(30.0, 45.0)	38.6	(35.0, 47.7)	0	6
Average visit duration (mins) [2]	60.7	(59.8, 62.1)	38.6	(30.0, 45.0)	56.1	(42.9, 60.8)	0	6
Total repetitions (all participants)	2198.5	(1249.0, 2943.0)	110	(54.0, 283.0)	1260	(283.0, 2576.0)	0	12
Repetitions per visit [2]	157	(96.1, 210.6)	16.3	(6.3, 24.3)	102.2	(24.3, 197.9)	0	12
ADHERENCE								
Number of days practice out of 42	14	(6.0, 26.0)			14	(6.0, 26.0)	3	
Total number of reps	642	(170.0, 2080.0)			642	(170.0, 2080.0)	7	
Number of reps per day [2]	70	(47.3, 141.2)			70	(47.3, 141.2)	7	
Total time (hours)	6.5	(1.5, 12.8)			6.5	(1.5, 12.8)	3	
Time per day (mins) [2]	30	(22.2, 44.5)			30	(22.2, 44.5)	3	
SATISFACTION								
Number of visits acceptable n(%)	16	66.7%			16	66.7%	0	
Hour a day independent practice acceptable n(%)	17	70.8%			17	70.8%	0	
Reach to Grasp acceptable n(%)	23	100.0%			23	100.0%	1	
Treatment beneficial [3]	8	(7.5, 8.0)			8	(7.5, 8.0)	0	
Treatment made difference to use of arm n(%)	20	83.3%			20	83.3%	0	
Treatment difficult [3]	6	(5.0, 7.5)			6	(5.0, 7.5)	0	

Notes:

[1] using the definition of a visit to be a B8 form with non-zero duration of any other information recorded (excluding signature). If we consider the number of forms b8 entered, the median is 11.5 (IQR 6-17)

[2] Averages generated using only days or visits where relevant data had been recorded

[3] assessed using a visual analogue scale from 1 to 10

Table 12: RTG treatment received, adherence and satisfaction: summarised using <u>means</u> rather than medians

	Randomised to RTG (n=24)		Randomised to Usual care (n=23)		Total (n=47)	
	Mean	**s.d.**	**Mean**	**s.d.**	**Mean**	**s.d.**
TREATMENT INTENSITY						
Completed all 14 RtG intervention visits n (%)	16	66.7%			16	66.7%
Number of visits out of 14 completed per participant	13.1	1.9	10.4	7.0	11.9	4.9
Total treatment duration (hours)	8.4	2.0	6.6	4.6	7.7	3.4
Average upper limb treatment per visit (mins)	40.3	8.6	37.5	12.0	39.1	10.1
Average visit duration (mins)	59.9	4.3	37.5	12.0	50.6	13.9
Total repetitions (all participants)	2183.3	1224.0	155.0	133.8	1545.8	1389.7
Repetitions per visit	164.4	85.2	16.3	10.5	117.8	99.0
ADHERENCE						
Number of days practice	16.6	11.6				
Total number of reps	1691.2	2242.3				
Number of reps per day	106.8	89.2				
Total time (hours)	507	495.6				
Time per day (mins)	35.3	18.21				
SATISFACTION						
Number of visits acceptable n (%)	16	66.7%			16	66.7%
Hour a day independent practice acceptable n (%)	17	70.8%			17	70.8%
Reach to Grasp acceptable n (%)	23	100.0%			23	100.0%
Treatment beneficial	7.8	1.5			7.8	1.5
Treatment made difference to use of arm n (%)	20	83.3%			20	83.3%
Treatment difficult	6.1	2.0			6.1	2.0

Table 13: RTG adherence

code	task	Issued ARAT 0 to 3 (n=9)	4 to 28 (n=11)	29 to 56 (n=4)	Overall (n=24)	likes	dislikes	missing
1a1	Reach up to touch light cord	3	0	0	3	2	0	1
1b1	Reach for light cord	0	2	0	2	2	0	0
1b2	Reach to touch headboard or wall	6	5	2	13	12	1	0
1b3	Reach to touch headboard or wall	2	2	1	5	4	1	0
1b4	Reach to touch headboard or wall	0	2	0	2	2	0	0
1b5	Touching hand to target	2	2	0	4	4	0	0
1b6	Lifting up an object							
1c1	Reach back for door handle							
1c2	Pull drawer out	1	0	0	1	0	1	0
1d1	Reach to touch alarm clock	1	0	0	1	1	0	0
1d2	Slide arm along bed up to wall or headboard							
1d3	Push book away							
1d4	Standing and reaching to the side							
1e1	Turn hand over to tap targets	0	4	0	4	3	1	0
1e2	Knock on wall	1	1	0	2	2	0	0
1e3	Knock on headboard							
1e4	Ext rotation with skateboard	2	0	0	2	1	1	0
1e5	Move hand out to a target							
1e6	Move cup to table							
1e7	Polishing table	2	1	0	3	3	0	0
1e8	Knock rubbish into bin							
1e9	Move cup around 'protractor'	0	1	0	1	1	0	0
1e10	Knock on door							
1e11	Draw curved lines on paper							
1e12	Pull out tape measure							
1e13	Pull drawer out							
1e14	Move object along table	0	1	0	1	1	0	0
2a1	Slide hand up and down broom handle	2	0	0	2	0	1	1
2a2	Pick up and replace phone	0	1	0	1	1	0	0
2a3	Move pan forwards and backwards on oven hobs							
2a4	Move object between shelves	0	1	1	2	2	0	0
2b1	Sliding arm forward	5	4	0	9	8	1	0
2b2	Push object forward	4	2	0	6	5	1	0
2b3	Lift tumbler onto table	1	2	1	4	4	0	0
2c1	Reach for cupboard handles	1	3	1	5	2	3	0
2c2	Move pan sideways on hobs	1	0	0	1	1	0	0
2c3	Move books between and along shelves	0	1	0	1	1	0	0
2c4	Reach to different targets	0	2	1	3	3	0	0
2c5	Move object between work surfaces	1	3	0	4	4	0	0
3a1	Reach from forehead to light cord	6	1	0	7	6	1	0
4a1	Rotate forearm to a wall with object	0	3	0	3	3	0	0
4a2	Rotate forearm to tap targets with object	1	5	1	7	4	3	0

Code	Description							
4a3	Turn an object over							
4b1	Empty pot of coins onto table							
4b2	Empty water out of tumbler							
4b3	Dry tumbler with tea towel							
4b4	Wring out towel							
4b5	Drop object from one hand into the other							
4c1	Lift bags from floor to table and back	0	1	0	1	1	0	0
4c2	Pour kettle	0	0	1	1	1	0	0
5a1	Touch knuckles to ruler	3	5	0	8	7	1	0
5a2	Lift hand to touch straw	2	5	1	8	7	1	0
5a3	Bend and straighten wrist to touch targets	1	2	0	3	3	0	0
5a4	Draw curved lines with pen	0	1	0	1	1	0	0
5a5	Knock on wall with knuckles	0	1	0	1	1	0	0
5a6	Roll ball along table between hands							
5a7	Knock ball against wall on table with back of hand							
5b1	Touch thumb to ruler	1	1	0	2	2	0	0
5b2	Lift tumbler off table	1	0	0	1	1	0	0
5b3	Screw on and unscrew jar lid							
5c1	Lift tumbler onto object	0	1	0	1	0	1	0
5d1	Cut up food with knife and fork	0	6	1	7	5	1	1
5d2	Lift cup onto saucer	0	1	0	1	0	1	0
5d3	Take tumbler to mouth	1	3	0	4	4	0	0
5d4	Bounce tennis ball on racquet							
5d5	Bounce ball							
5d6	Reach for chair arm and push up to stand up and sit down							
6a1	Straighten fingers to touch ruler	0	1	2	3	3	0	0
6a2	Touch fingers to straw							
6a3	Lift finger up along ruler							
6a4	Straighten and bend fingers using targets							
6a5	Knock object over with finger extension	0	1	0	1	1	0	0
6a6	Straighten fingers to touch peg	0	1	0	1	1	0	0
6b1	Tap thumb on tumbler	0	1	0	1	1	0	0
6b2	Knock object over with thumb							
6b3	Slide thumb on table	0	0	1	1	0	1	0
6b4	Slide thumb on a ruler							
6b5	Slide thumb along a stick with hand around cup							
6b6	Slide thumb down a stick with hand around cup	1	1	1	3	1	2	0
6c1	Squeeze and release tumbler							
6c2	Grasp different sized objects							
6c3	Mark measurements on ruler with thumb and index finger							
6c4	Drop different sized objects into bin	1	2	0	3	2	1	0
6d1	Drop wash rag							
6d2	Move object around	0	1	1	2	1	1	0
6d3	Drop ball on table and catch again							
7a1	Grip with ring and little fingers							
7b1	Squeeze clothes peg	0	0	1	1	1	0	0

Code	Description							
7b2	Lower peg from horizontal to vertical	0	1	1	2	1	1	0
7b3	Lift a sealed bottle and straw							
7b4	Pick up small object then drop	0	1	1	2	0	2	0
7b5	Pick up small object then replace	1	3	1	5	2	3	0
7b6	Pick up a coin	0	0	1	1	1	0	0
7c1	Pinch through cup handle							
7c2	Take and replace small items on shelves	0	1	0	1	1	0	0
7c3	Maintain grasp using tweezers and a coin	0	0	1	1	1	0	0
7c4	Buttoning and un-buttoning							
7c5	Turn pages	1	0	0	1	1	0	0
7c6	Fold washing on table							
7c7	Remove and re-pin items on notice board							
7c8	Turn over cards							
7c9	Play game involving dexterity	0	2	3	5	5	0	0
7c10	Place pegs in a peg board	0	1	0	1	0	0	1
7c11	Take matches out of match box							
8a1	Cup hand to pick up a plate							
8b1	Pick up and move bowl							
8b2	Unscrew jar lid	0	0	1	1	0	1	0
8c1	Stack cups							
8c2	Stack coins	0	1	0	1	0	0	1
8c3	Use purse / wallet							
8c4	Choose key from a bunch	0	0	1	1	1	0	0
8c5	Make a chain of paperclips							
8c6	Tie and un-tie shoe laces	0	1	0	1	1	0	0
9a1	Use computer	0	1	1	2	2	0	0
9a2	Knitting / sowing	0	1	1	2	2	0	0
9a3	Wash up cutlery	1	0	0	1	1	0	0
9a4	Wash up crockery	0	0	1	1	1	0	0
9a5	Brush teeth							
9a6	Shaving							
9a7	Brush hair	0	1	0	1	1	0	0
9a8	Writing	0	1	2	3	3	0	0
9a9	Peg out washing	0	0	1	1	1	0	0

Table 14: Carer strain index

	Randomised to RTG (n=24)		Randomised to Usual care (n=23)		Total (n=47)		Number of missing values	
	Mean	SD	Mean	SD	Mean	SD	RTG	Usual care
Carer strain index at 3 months	8.0[1]	2.8[1]	8.7[2]	3.1[2]	8.6	2.9	22	16
Carer strain index at 6 months	4.5[1]	0.7[1]	9.3[3]	4.5[3]	7.7	4.3	22	19

[1] *Note that data only available here for 2 patients*

[2] *Note that data only available here for 7 patients*

[3] *Note that data only available here for 4 patients*

Table 15: Pain scores

	Randomised to RTG (n=24)		Randomised to Usual care (n=23)		Total (n=47)		Number of missing values	
	Median	IQR	Median	IQR	Median	IQR	RTG	Usual care
Pre-assessment								
Baseline	2	(0.0, 3.5)	1	(0.0, 2.0)	1	(0.0, 3.0)	8	8
7 weeks	0	(0.0, 2.0)	1	(0.0, 5.0)	0	(0.0, 4.0)	8	7
3 months	1	(0.0, 4.0)	1	(0.0, 2.0)	1	(0.0, 4.0)	6	6
6 months	0	(0.0, 2.0)	0	(0.0, 4.0)	0	(0.0, 3.0)	10	8
Post-assessment								
Baseline	3	(0.0, 5.0)	1	(0.0, 2.0)	2	(0.0, 4.0)	9	8
7 weeks	0	(0.0, 4.0)	2	(0.0, 5.0)	2	(0.0, 5.0)	8	7
3 months	1	(0.0, 5.0)	2	(0.0, 5.0)	2	(0.0, 5.0)	7	9
6 months	2	(0.0, 4.0)	2	(0.0, 4.0)	2	(0.0, 4.0)	10	10
Other times								
Baseline	6.5	(3.5, 8.0)	2	(1.0, 4.0)	4	(1.0, 8.0)	8	9
7 weeks	3	(0.0, 5.0)	3	(0.0, 5.0)	3	(0.0, 5.0)	9	7
3 months	3	(1.0, 6.0)	2	(0.0, 4.0)	2	(0.0, 6.0)	7	7
6 months	2.5	(0.0, 6.0)	2	(0.0, 5.0)	2.5	(0.0, 5.5)	10	9
Mean of all VAS								
Baseline	4.2	(2.2, 5.2)	1.7	(0.3, 2.7)	2.7	(0.7, 4.7)	8	8
7 weeks	1.3	(0.0, 3.3)	2.7	(0.0, 5.0)	1.7	(0.0, 4.0)	8	6
3 months	2	(0.7, 5.7)	1.3	(0.0, 4.0)	1.3	(0.3, 5.7)	6	6
6 months	2	(0.0, 3.0)	2	(0.0, 4.7)	2	(0.0, 3.7)	10	8

Table 16: Acceptability of outcome measures

		Randomised to RTG (n=24)		Randomised to Usual care (n=23)		Total (n=47)		Number of missing values	
		n	%	n	%	n	%	RTG	Usual care
Prefer ARAT over WMFT		7	46.7%	2	22.2%	9	37.5%	9	14
Baseline ARAT	0-3	0	0.0%	0	0.0%	0	0.0%	6	6
	4-28	5	62.5%	1	25.0%	6	50.0%	3	7
	29-56	2	50.0%	1	50.0%	3	50.0%	0	1
MAL AoU acceptable		16	100.0%	9	81.8%	25	92.6%	8	12
MAL QoM acceptable		14	100.0%	7	87.5%	21	95.5%	10	15

Table 17: Blinding

	Randomised to RTG (n=24)		Randomised to Usual care (n=23)		Total (n=47)		Number of missing values	
	n	%	n	%	n	%	RTG	Usual care
7 weeks								
I am blinded to treatment	16	69.6%	13	61.9%	29	65.9%	1	2
I think I've been unblinded (I am RTG)	2	8.7%	2	9.5%	4	9.1%	1	2
I think I've been unblinded (I am Usual care)	1	4.3%	3	14.3%	4	9.1%	1	2
I have been unblinded (I am RTG)	4	17.4%	1	4.8%	5	11.4%	1	2
I have been unblinded (I am Usual care)	0	0.0%	2	9.5%	2	4.5%	0	2
3 month								
I am blinded to treatment	15	65.2%	17	81.0%	32	72.7%	1	2
I think I've been unblinded (I am RTG)	2	8.7%	2	9.5%	4	9.1%	1	2
I think I've been unblinded (I am Usual care)	1	4.3%	1	4.8%	2	4.5%	1	2
I have been unblinded (I am RTG)	5	21.7%	0	0.0%	5	11.4%	1	0
I have been unblinded (I am Usual care)	0	0.0%	1	4.8%	1	2.3%	0	2
6 months								
I am blinded to treatment	8	50.0%	12	75.0%	20	62.5%	8	7
I think I've been unblinded (I am RTG)	2	12.5%	0	0.0%	2	6.3%	8	0
I think I've been unblinded (I am Usual care)	1	6.3%	1	6.3%	2	6.3%	8	7
I have been unblinded (I am RTG)	5	31.3%	0	0.0%	5	15.6%	8	0
I have been unblinded (I am Usual care)	0	0.0%	3	18.8%	3	9.4%	0	7

Table 18: Expected adverse events

	Randomised to RTG (n=24)				Randomised to Usual care (n=23)				Total (n=47)				Number of missing values	
	AE		SAE		AE		SAE		AE		SAE		RTG	Usual care
	n	%	n	%	n	%	n	%	n	%	n	%		
Any AE	20	83.3%	0	0.0%	18	78.3%	2	8.7%	38	80.9%	2	4.3%	0	0
Total events	**76**		**0**		**55**		**3**		**131**		**3**		**0**	**0**
End of baseline visit														
Shoulder pain	11	45.8%	0	0.0%	11	47.8%	0	0.0%	22	46.8%	0	0.0%	0	0
Hand pain	7	29.2%	0	0.0%	5	21.7%	0	0.0%	12	25.5%	0	0.0%	0	0
Hand oedema	4	16.7%	0	0.0%	3	13.0%	0	0.0%	7	14.9%	0	0.0%	0	0
Falls	2	8.3%	0	0.0%	1	4.3%	0	0.0%	3	6.4%	0	0.0%	0	0
Equipment failure	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0
During 6week intervention period														
Shoulder pain	9	81.8%	0	0.0%	0	0.0%	0	0.0%	9	69.2%	0	0.0%	13	21
Hand pain	4	36.4%	0	0.0%	2	100.0%	1	50.0%	6	46.2%	1	16.7%	13	21
Hand oedema	5	45.5%	0	0.0%	0	0.0%	0	0.0%	5	38.5%	0	0.0%	13	21
Falls	4	36.4%	0	0.0%	2	100.0%	1	50.0%	6	46.2%	1	16.7%	13	21
Equipment failure	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	13	21
7 weeks														
Shoulder pain	2	8.7%	0	0.0%	7	31.8%	0	0.0%	9	20.0%	0	0.0%	1	1
Hand pain	2	8.7%	0	0.0%	3	13.6%	0	0.0%	5	11.1%	0	0.0%	1	1
Hand oedema	1	4.3%	0	0.0%	0	0.0%	0	0.0%	1	2.2%	0	0.0%	1	1
Falls	2	8.7%	0	0.0%	1	4.5%	0	0.0%	3	6.7%	0	0.0%	1	1
Equipment failure	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1
3 months														
Shoulder pain	6	26.1%	0	0.0%	5	23.8%	0	0.0%	11	25.0%	0	0.0%	1	2
Hand pain	4	17.4%	0	0.0%	2	9.5%	0	0.0%	6	13.6%	0	0.0%	1	2
Hand oedema	2	8.7%	0	0.0%	0	0.0%	0	0.0%	2	4.5%	0	0.0%	1	2
Falls	0	0.0%	0	0.0%	1	4.8%	0	0.0%	1	2.3%	0	0.0%	1	2

	Randomised to RTG (n=24)				Randomised to Usual care (n=23)				Total (n=47)				Number of missing values	
	AE		SAE		AE		SAE		AE		SAE		RTG	Usual care
	n	%	n	%	n	%	n	%	n	%	n	%		
Equipment failure	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	2
6 months														
Shoulder pain	4	25.0%	0	0.0%	5	29.4%	0	0.0%	9	27.3%	0	0.0%	8	6
Hand pain	4	25.0%	0	0.0%	2	11.8%	0	0.0%	6	18.2%	0	0.0%	8	6
Hand oedema	2	12.5%	0	0.0%	1	5.9%	0	0.0%	3	9.1%	0	0.0%	8	6
Falls	1	6.3%	0	0.0%	4	23.5%	1	25.0%	5	15.2%	1	20.0%	8	6
Equipment failure	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	8	6

[1] *Note missing data are mainly due to patients missing the form in the database.*

Table 19: Unexpected serious adverse events

		Randomised to RTG (n=24)	Randomised to Usual care (n=23)	Overall (n=47)	Number of missing values	
		n	n	n	RTG	Usual care
Number of patients experiencing one or more SAEs		5 (21%)	5 (22%)	10 (21%)		
Number of events		6	6	12		
Event type	Suspected TIA	1	1	2	0	0
	Seizure	1	0	1		
	Atypical seizure	0	1	1		
	Loss of upper limb function	1	0	1		
	Fainted and fractured hand	0	1	1		
	Mental breakdown	0	1	1		
	Planned cranioplasty had complications	1	0	1		
	Atrial ablation related to heart failure	1	0	1		
	Suspected chest infection	0	1	1		
	Kidney failure and septicaemia - patient died	1	0	1		
	Death	0	1	1		
Timing of events	After randomisation but before 7 week follow-up	3	1	4	0	2
	Between 7 week and 6 month follow-ups	3	3	6		
Maximum intensity	Moderate	4	4	8	0	0
	Severe	2	2	4		
Resulted in death		1	1	2	0	0
Is/was life-threatening		2	1	3	0	0
Resulted in persistent or significant disability/incapacity		2	1	3	0	0
Hospitalisation		5	6	11	0	0
Relatedness to intervention	Not related	4	6	10	0	0
	Unlikely to be related	2	0	2		

- Note: although 2 patients died, however only one of the SAE forms had "SAE resulted in death" ticked. One of the events was originally reported as hospital admission for kidney failure. However the follow-up form was completed stating that the patient died after a hospital stay.