2023 Edition

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Question 35: Does repetitive task training improve outcome and how should it be delivered?

NB Any discrepancies between reviewers in evidence quality and comment were discussed at the corresponding evidence review meeting

MAS = Motor Assessment Scale, TEMPA =Test d'Evaluation des Membres Superieurs des Personnes Agees, FMA = Fugl Myer Assessment Scale, MAL = Motor activity log, WMFT = Wolf Motor function Test, 9HPT = 9-hole peg test, B&BT = Box and block test, MAS = Modified Ashworth scale, UL = upper limb, 6MWT = 6 minute walk test, 10MWT = 10 minute walk test, TOBT = task-orientated balance training, CBT = Cognitive Behaviour Therapy, GHE = general health education, rTMS = repetitive transcranial magnetic stimulation, tDCS = transcranial direct current stimulation, TOT = task-oriented training, VIMT = constraint induced movement therapy, RTT = repetitive task training, SR = systematic review, MA = meta-analysis, RCT = randomised controlled trial, IPDMA = individual patient data meta-analysis, MDT = multidisciplinary team, PICO = patient/population, intervention, comparison and outcomes, OR = odds ratio, CI = confidence interval, QoL = quality of life, ADL = activities of daily living, OR = odds ratio, RR = relative risk, aOR = adjusted odds ratio, cOR = crude odds ratio, CI = confidence interval, RoB = risk of bias, I2 = heterogeneity statistic.

Ref ID	Source	Setting, design and subjects	Intervention	Outcomes	Results	Evidence quality (SIGN checklist score) and comment
191	(2019). Task-oriented Motor Learning in Upper Extremity Rehabilitation Post Stroke. <i>Journal of</i> <i>Stroke Medicine</i> , 2:2 95-104	analysis, merely reported the effect sizes in each trial: RCTs and pseudo-trials of UL task training. Quality assessed with PEDro scale. Effect sizes were calculated. 6 RCTs of 456 participants were included. 42% women, mean age 63 yrs. No info on chronicity or severity.	+/- exercises or physical activity for the upper limb. Tasks and training highly varied. Appear to include reaching or strengthening – task minimal. Dose = 30-90 min/session, 2-	shoulder flexion), strength) shoulder flexion and hand grip), spasticity (Ashworth) , and upper extremity function/ impairment (3 trials using Fugl-meyer, Wolf, Motor activity log, TEMPA)		- No meta-analysis. Claims no significant differences between groups but only reports effect sizes within the trials Strange interventions included- odd interpretation of 'task orientated training Limited description of participants.
191	(2019). Task-oriented Motor Learning in	n=456 published between 2000- 2017 Mean age 63.3 yrs . 42% female.	elbow joint Intensive reaching Self care / functional		Task orientated practice does not produce a superior effect on UL recovery.	- Lacked details of participant characteristics, level of ability or time from stroke onset .

NATIONAL CLINICAL GUIDELINE FOR STROKE

for the United Kingdom and Ireland

Ref ID	Source	Setting, design and subjects	Intervention	Outcomes	Results	Evidence quality (SIGN checklist score) and comment
	Stroke Medicine, 2:2 95-104		training On average 2-4 sessions/wk from 30	Hand grip strength 9HPT Box and block test MAS Modified Ashworth scale.		
	Effects of individual task specific training verses group circuit training on balance	setting Participants within 3 months of stroke who were able to stand and 'walk for some distance'	training'; One group (n=11) received this within group-basis, other group received	Time Up and Go Test, 10 metre walk test, 6 min walk test, functional reach test, Dynamic Gait Index, Ashworth Scale and Berg Balance Scale.	balance. No significant	- Small study No details of randomisation process
	Effects of individual task specific training verses group circuit	(<3/12) strokes attending out- patient dept who were able to stand and walk for some distance with or without an assistive	Task-oriented circuit training (5 stations @ 5 mins each: STS, stepping fwd, bckwds and sideways, trunk control and rotation, multi-direction reaching. Exercises progressed each week.	balance scale, Functional reach test ,Time Up and Go) and ambulation (Dynamic gait index); motor impairment (Motor Assessment Scale (MAS),	improvements in motor impairment, mobility, balance, but not spasticity. No differences between groups	- Tiny unpowered trial. No details on blinding, concealed allocation, blinding, type of analysis; etc etc

Ref ID	Source	Setting, design and subjects	Intervention	Outcomes	Results	Evidence quality (SIGN checklist score) and comment
	(2020). The Effect of Priming on Outcomes of Task-Oriented Training for the Upper Extremity in Chronic Stroke: A Systematic Review and Meta- analysis. Neurorehabilitation and Neural Repair,	Systematic Review with Meta Analysis : 36 studies n=814. Include RCTS, pseudorandomised trials and randomised crossover trials. Participants chronic stroke survivors (> 6 months) Ranging from 8.7 to 478 months . PEDro scale used to assess methodological quality . All included studies score>=6 Assessment of Risk assessed by Cochrane Collaboration tool.	immediately before or concurrent with Task orientated training (TOT) 17 studies included stimulation priming, 9 performed with rTMS, and 8 with t DCS. 12 studies performed sensory priming 5 studies used electrical stimulation,	primary & secondary outcome measures. 6 classified as structure & body function;8 classified as activity domains UE-FMA most commonly used for structure & body function(20 studies) WMFT most widely used activity domain (12 studies). Other studies used MAL and/ or ARAT	and body function as measured by UE-FMA. Sensory Priming , improvements in UE-FMA (Good quality SR & MA The use of different outcome measures , time since stroke onset limits the applicability of findings

Ref	Source	Setting, design and subjects	Intervention	Outcomes	Results	Evidence quality (SIGN
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			per week with total no. ranging from 1 to 40 sessions			
	training associated with task-oriented training to enhance upper-limb motor	Community setting. Single blind randomised controlled trial. Chronicity Patients had to have stroke 6 months to five years previously. Severity At least grade 3 on manual muscle testing or able to move arm through 60 degrees of range.	activities completed in both groups with treatment group including strength training. Either unilateral or bilateral "functional	- Test d'Evaluation des Membres Superieurs des Personnes Agees (TEMPA) - Eight standardised tasks - score 0-150 with higher best. Grip strength Shoulder strength Active range Fugl-Meyer Scale.	(11.9) months post stroke. Provided Median [min-max range] data and percentage change with no other	concealment and study methods acceptable but results not presented in an acceptable manner and prevent adequate analysis.

Ref ID	Source	Setting, design and subjects	Intervention	Outcomes	Results	Evidence quality (SIGN checklist score) and comment
195	Repetitive task training for improving functional ability after stroke. <i>The Cochrane</i>	participants); Hand (8 studies, 619 participants); LL (5 studies,	sequence performed	global motor function, QoL/health status,	There is <i>low-quality evidence</i> that RTT improves arm function (standardised mean difference (SMD) 0.25, 95% confidence interval (CI) 0.01 to 0.49; 11 studies, participants = 749), hand function (SMD 0.25, 95% CI 0.00 to 0.51; 8 studies, participants = 619), and LL functional measures (SMD 0.29, 95% CI 0.10 to 0.48; 5 trials, participants = 419). There is <i>moderate-quality</i> <i>evidence</i> that RTT improves walking distance (mean dilerence (MD) 34.80, 95% CI 18.19 to 51.41; 9 studies, participants = 610) and functional ambulation (SMD 0.35, 95% CI 0.04 to 0.66; 8 studies, participants analysed = 525). We found significant differences between groups for both upper-limb (SMD 0.92, 95% CI 0.58 to 1.26; 3 studies, participants = 153) and lower-limb (SMD 0.34, 95% CI 0.16 to 0.52; 8 studies, participants = 471) outcomes up to six months post treatment but not after six months. Effects were not modified by intervention type, dosage of task practice or time since stroke for upper or lower limb. There was insufficient	++ for SR 'low-moderate' quality for evidence

Ref	Source	Setting, design and subjects	Intervention	Outcomes	Results	Evidence quality (SIGN
ID						checklist score) and comment
					evidence to be certain about	
					the risk of adverse events.	
			Primary objective: To			++
	Repetitive task training		-	Upper limb function/reach		
	1 0		task training (RTT)	* Arm function	-	Very well conducted
	-		improves upper limb		confidence interval (CI) 0.01 to	
			function/reach and		0.49; 11 studies, number of	
		participants had mixed aetiology.			participants analysed = 749),	
		Studies on repetitive task training		-	hand function (SMD 0.25, 95%	
1			adults after stroke.		CI 0.00 to 0.51; eight studies,	
				function/standing balance		
		functional relevance.	1) To determine the		analysed = 619), and lower	
			effect of RTT on		limb functional measures	
				Secondary outcomes;	(SMD 0.29, 95% CI 0.10 to	
					0.48; five trials, number of	
			activities of daily living		participants analysed = 419).	
					There is <i>moderate-quality</i>	
					evidence that RTT improves	
			life/health status, and	-	walking distance MD 34.80,	
			-		95% CI 18.19 to 51.41; nine	
				ability to move from lying		
				-	participants analysed = 610)	
				the side of the bed])	and functional ambulation	
					(SMD 0.35, 95% CI 0.04 to	
					0.66; eight studies, number of	
					participants analysed = 525).	
					We found significant	
					differences between groups	
			0		for both upper-limb (SMD	
			timing of the		0.92, 95% Cl 0.58 to 1.26;	
1			intervention; and type		three studies, number of	
1			of intervention.		participants analysed = 153)	
1					and lower-limb (SMD 0.34,	
1					95% Cl 0.16 to 0.52; eight	
1					studies, number of	
1					participants analysed = 471)	
1					outcomes up to six months	

Ref ID	Source	Setting, design and subjects	Intervention	Outcomes	Results	Evidence quality (SIGN checklist score) and comment
					post treatment but not after six months.	
	(2016). Examining the Feasibility, Tolerability, and Preliminary Efficacy of Repetitive Task-Specific Practice for People With Unilateral Spatial Neglect. The American journal of occupational therapy : official publication of the American Occupational	N=20, Participants aged 18 and over, stroke onset >= 6 months, mild to moderate UL paresis,	individualised progressive program of repetitive training in functional task delivered by experienced OT& PTs. . Administered 3dys/wk. for 1hr/day over 6 wk.	total percentage of session's attended, total repetitions and satisfaction as measured by Client Satisfaction Questionnaire. Tolerability measured by pain in affected UL using Wong Baker FACES pain rating scale: 40%	Average 290 reps completed per session. (SD=44) 50% participants achieved 300 or more per session. 95% reported high	+ Acceptable feasibility study No details of specifics tasks within intervention Lack of objective measures Severe aphasiac stroke survivors and participants with severe hemiparesis excluded.
	(2016). Examining the Feasibility, Tolerability, and Preliminary Efficacy of Repetitive Task-Specific Practice for People With Unilateral Spatial Neglect. The American journal of occupational therapy : official	Design - Prospective observational study though described as "single-group, repeated measures, collaborative pilot study." Severity - People with spatial neglect and mild to moderate upper-extremity paresis (defined by Motricity Index scores of 48– 92	task specific practice programme. Progressive programme administered three days a week for one/hour over six weeks. "In each 1-hr session, the participant's goal was to achieve at least	Main outcome measures were for satisfaction – Client satisfaction Questionnaire-8 Tolerability (8-32) – Pain measured Wong-Baker Faces Pain scale (0-10) Secondary outcome – ARAT Motor Activity Log (MAL)	satisfaction Questionnaire-8 Tolerability (8-32) – Pain measured Wong-Baker Faces Pain scale (0-10)	0 Unacceptable – Not a cohort study or controlled trial. Just a prospective observational study so no score.

Ref ID	Source	Setting, design and subjects	Intervention	Outcomes	Results	Evidence quality (SIGN checklist score) and comment
	Therapy Association, 70:4	Chronicity – greater than 6 months.	practice for each of three therapist- selected tasks."			
197			-	TUGT (I will look at this) FES – has absolutely no contextual reference for India (I would not report this finding either)		Power calculation issues Simple randomisation (high risk of bias) Between group data not provided Independent assessor
198	(2019). Decreasing Fear of Falling in Chronic Stroke Survivors through Cognitive Behavior Therapy and Task- Oriented Training.	mobile at least 10M+/- aid, ≥7 out of 10 on abbreviated mental test and had low balance score (measured by ABC-C score) Intervention delivered in	Participants in both groups received 2 weekly sessions of 90 mins for 8 weeks. Experimental group (n=45) received 45 mins of task- orientated balance training (TOBT) and 45 mins of Cognitive Behaviour Therapy (CBT) targeting fear of falling The control group (n= 44) received 45 mins of TOBT and 45 mins of general health education (GHE).	confidence (ABC-C measure) Secondary Outcomes: Berg Balance scale; Lawton ADL scale; fear avoidance, community integration and QOL scales.	Compared with the GHE+TOBT intervention, the CBT+TOBT intervention produced greater reduction in the fear of falling and fear-avoidance behaviour and greater improvements in balance ability and independent living from immediately post intervention to 12 week follow up. Much of within-group reduction in the fear of falling maintained in CBT+TOBT group compared with control group CBT+TOBT intervention improved independent daily living and community	++

Ref	Source	Setting, design and subjects	Intervention	Outcomes	Results	Evidence quality (SIGN
ID						checklist score) and comment
					integration, continuing at 12 month follow up.	
	(2018). Effects of a 12- month task-specific balance training on the balance status of	MMSE score.	undertook Task-	scale at baseline, 4th, 8th, and 12th month intervals.	points: cognitively impaired group = 0.69 @ 12/12) and non-impaired = 0.544 @12/12. No significant difference in improvement.	+ Well conducted cohort study- good sized sample (with power calculation), consecutive recruitment, multi-cente wide selection criteria. BUT treatment continued for a very long time
	(2018). Effects of a 12- month task-specific	cognitively impaired or not		and 12th months,	points: cognitively impaired group = 0.69 @ 12/12) and non-impaired = 0.544 @12/12. No significant difference in improvement.	+ Reasonable cohort study but to selective age range, large drop outs not accounted for and long intervention/ unclear aerobic element: 43 drop-outs compliance level (participants that completed the study) was 58.82%, while for the non- cognitive group; the compliance level was 86.21%.

-	Source	Setting, design and subjects	Intervention	Outcomes		Evidence quality (SIGN
ID						checklist score) and comment
			progressed to 85% of the value over 12 months			
	(2020). Bobath therapy is inferior to task-	22 trials n review, 17 in metaanalyses. PEDro scores 2- 8	Bobath therapy to no intervention. Meta-analyses estimated the effect of Bobath compared	standing balance, walking, running and stair climbing. 2ry outcomes were measures of lower limb strength or co-ordination.	benefit on LL activities than Bobath therapy (SMD 0.48), (95% Cl 0.01 to 0.95). Bobath therapy did not clearly improve LL activities more than a combined intervention	++ Well conducted review, no concerns. Empirical research- usual challenge of varied quality/ inconsistent intervention descriptions
	(2020). Bobath therapy is inferior to task- specific training and not superior to other interventions in improving lower limb activities after stroke: a systematic review. <i>Journal of</i> <i>physiotherapy</i> , 66:4	22 included trials, 1192 participants 17 trails were included in the meta-analysis Most trials (n=12) were in a rehab hospital setting, however trials conducted later after stroke were also included Age range 34-75 Time since stroke – 6 days to 6 months	average dose of bobath therapy was 17hrs (range 6 to 38) among the 12 studies that reported session time in enough detail	sit to stand, standing balance, walking, running or stair climbing Secondary: LL strength or coordination	TST, 7 trials (PEDro score = 7),n=409, SMD was 0.64 in favour of TST (95%CI 0.06- 1.21, I ² =86% Bobath therapy compared with strength training and Bobath compared with combined intervention neither provided clear evidence in favour of either intervention. All other outcomes examined (standing balance, sit to stand , stair climbing, sitting balance found no clear evidence in favour of either intervention) Exception: Bobath compared with PNF, 1 trial, PEDro =4, n=72, SMD was -1.40(95%CI -	++

Ref ID	Source	Setting, design and subjects	Intervention	Outcomes		Evidence quality (SIGN checklist score) and comment
					1.92 to -0.88) in favour of Bobath	
	Experience of enriched rehabilitation in the chronic phase of	Focus group with 20 participants, mean age 61 years, mean time since stroke 30 months. All had undergone ETT training (see Vive et al 2020).	None		 The program—different and hard – highlighting the participants view of the ETT as strenuous and different in nature; My body and mind learn to know better – describing positive changes in participants' body function and functional ability as well as behavioural changes experienced throughout the ETT; The need and trust from others – emphasizing the perceived importance of trust in rehabilitation clinicians and the support of family and other participants. From these categories, a main theme emerged: It's hard but possible—but not alone! 	No SIGN guidance for this design
	Experience of enriched rehabilitation in the chronic phase of	Patients who were reasonably capable and who could communicate well		Patients liked the treatment		
202	(2016). Dose response of task-specific upper	stroke Mean age 59.9 – 62.1	1hr per day, 4 days/week for 8 weeks. Supervised massed practice of	baseline, post intervention and 2 months	Primary: overall there was a modest change in motor function (< 1 point/week) but no clear difference in	

Ref ID	Source	Setting, design and subjects	Intervention	Outcomes	Results	Evidence quality (SIGN checklist score) and comment
		Mild to moderate functional motor capacity as indicated by 10-48 on the ARAT	and progressed for each participant. 4 dose groups: i)3200 (100reps/session) ii)6400 (200 reps/session) iii)9600 (300reps/session) iv) Individualised maximum dose (300reps/session and session continuing until meeting stopping criteria) Purpose of this group was to see how much and how	Secondary: SIS – hand and ADL subscales, COPM, 7- point likert scale evaluating self-perceived change and whether it was meaningful. 6point difference on ARAT is considered MCID in chronic stroke Potential modifiers of dose-response relationships examined: Initial severity of functional deficit measured by baseline ARAT, neglect, depression,	Change scores (mean with 95%Cl) were: i)5.8 (3.9-7.7) ii)5.1 (3.1-7.1) iii)5.5 (3.4-7.6) iv)8.4 (5.7-11.1)	
	(2018). Rehabilitation Interventions for Upper Limb Function in the First Four Weeks	Please read the extraction just a lot of work has been done and reported poorly – there was some bias and the rationale for merging studies was not as	Variety	Variety	A lot	Acceptable

Ref ID	Source	Setting, design and subjects	Intervention	Outcomes	Results	Evidence quality (SIGN checklist score) and comment
203	(2018). Rehabilitation Interventions for Upper Limb Function in the First Four Weeks Following Stroke: A Systematic Review and Meta-Analysis of the Evidence. Archives of Physical Medicine and	104 trials (83 RCTs, 21 nonrandomized studies) were included (N=5225 participants). Meta-analyses of RCTs only (20 comparisons) and narrative syntheses were completed.	Any PT/ OT technique designed to address impairment and/or activity of the affected UL after stroke. Comparator Any usual care, sham, or another technique.	impairment or activity	Significant + effects for mCimt) [SMD]Z1.09; 95% CI, .21-1.97) and task-specific training (SMDZ.37; 95% CI, .0568). Evidence was found to support supplementary use of biofeedback and electrical stimulation. Use of Bobath therapy was not supported.	+ Well conducted review, no concerns.
204	The effect of adding trunk restraint to task- oriented training in improving function in stroke patients: A systematic review and meta-analysis. <i>NeuroRehabilitation</i> , 46:1 95-108	guidelines. RCT of patients with functional loss of arm post stroke who were treated with trunk restraint during task orientated training versus task orientated training	ten weeks with frequencies ranging from two to five sessions per week. Follow-up performed in three trials at one to three months.	with seven deemed as good quality. MAL used in six of nine studies. Fugl-Meyer Assessment in seven studies. Wolf-Motor in two studies. ARAT in three studies ADL measures included Barthel, Frenchay	MAL - the amount of use: <u>Sub- acute</u> - MD=0.39 CI=0.25to0.54. <u>Chronic</u> - MD=0.03 CI=- 0.31to0.36. Quality of movement: <u>Sub- acute</u> - MD=0.45 CI=0.27to0.63. <u>Chronic</u> - MD=-0.06 CI=- 0.41to0.29. Fugl-Meyer Assessment: <u>Sub- acute</u> - MD=1.99 CI=0.67to1.51 <u>Chronic</u> - MD=0.28 CI=- 0.13to0.70. ARAT: <u>Sub-acute</u> - MD=4.51 CI=2.49to6.54 <u>Chronic</u> - MD=0.6 CI=- 7.78to8.98. Wolf Motor: Chronic – MD=- 0.99(-3.2 TO 1.8) ADL: <u>Sub-acute</u> - MD=1.7 CI=0.2to3.2– MD=-0.01(-0.6 TO 0.6)	High Quality - Only used studies written in English or Chinese so others may have been excluded.

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	The effect of adding trunk restraint to task- oriented training in improving function in	participants). Only 3 were subacute, 6 were	mCIT/reach-to-grasp training +/- trunk restraint 15-60 hours	common)	subacute stroke. In particular FW and ARAT.	
	Limited evidence of physical therapy on balance after stroke: A systematic review and meta-analysis. <i>PLoS</i> <i>ONE</i> , 14:8 e0221700	Analysis Studies included are not listed therefore unable to determine setting, chronicity, stroke severity etc Definitions unclear for usual care/sham treatment/no treatment. Follow up points unknown.	divided into follow categories: Assistive devices, constraint induced therapy, cardiopulmonary, functional task training, Musculoskeletal intervention, neurophysiological	for stroke) ii) Postural control with postural deviation or stability measurement in sitting or standing static evaluation measured by WBA (weight baring asymmetry), COP (centre of pressure or LOS (limit of stability) parameters	N=5912 Functional task training (SMD 0.39, 95% CI(0.09;0.68) heterogeneity I ² =63%) associated with musculoskeletal intervention	Somewhere between low quality and unacceptable based on lack of information provided, poorly defined interventions, unclear descriptions of usual care, sham treatment and no treatment
	Limited evidence of physical therapy on balance after stroke: A systematic review and	analysis of 145 RCTs (18 crossover and 127 parallel group design). 5912 participants (mean:	balance and postural control after stroke, classified. Controls = sham treatment or	Balance Scale or Postural Assessment Scale for Stroke); postural deviation = weight bearing	Most studies had high or unclear bias for blinding but a low risk for other biases. Possible publication bias. For balance - functional task- training alone (smd 0.39, 95%	++ Very high quality SR and MA.

Ref ID	Source	Setting, design and subjects	Intervention	Outcomes	Results	Evidence quality (SIGN checklist score) and comment
	meta-analysis. <i>PLoS</i> <i>ONE,</i> 14:8 e0221700	44.3) Quality assessed with Cochrane risk of bias tool.	an additional 300 minutes in 12sessions	or limit of stability (LOS) parameters.	Cl 0.09; 0.68) +/- MSK or cardiopulmonary intervention (0.37, [0.19; 0.55]) post- treatment was favourable. For postural stability eyes open, functional task-training and sensory interventions were more effective than control (0.97, [0.35; 1.59] and 0.80, [0.46; 1.13], respectively) immediately after intervention	
206	Therapy in the Chronic Phase After Stroke: An Exploratory Study.	Exploratory within-subject, repeated-measures design (Could call it a cohort study). The intervention was preceded by a baseline period to determine the stability of the outcome measures. 41 chronic strokes (mean 36 months post-stroke) with mild- moderate motor impairment and disability (Can sit-to-stand and transfers independently or with (non-mechanical) assistance Participants from Sweden or Norway but travelled to Spain for treatment. Ax before nad after treatment wer ein Span, others in Sweden/Norway or by postal questionnaire.	Task-specific Training (ETT): PT with social and cognitive stimulation. Individually tailored groups (4-9 people) repetitive massed practice with non- compensatory strategies supervised by PTs. 3- 6 hours training/ day (functional task and impairment-based training sessions) Each	Assessment Scale, M- MAS). Secondary outcomes = balance, Walking (^min walk test), grip strength, dexterity, and multiple dimensions of health. Assessments made at baseline,	stable. 39 participants (95%) completed the intervention. Mean amount of PT= 75.3 ± 19.2 hours. M-MAS UAS increased 2.3 points and 5 points on the Berg Balance Scale (both <i>P</i> <0.001; SRM>0.90). Comfortable and fast gait speed increased by 0.13 and 0.23 m/s, (<i>P</i> < 0.001; SRM = 0.88), 6 min WT	Low level evidence. Cohort study Strange. Scandinavian participants, but treatment in Span. Has combined large amounts of therapy with social interaction but don't know which element was effective, or both. No control. Highly selected participants. But more evidence that high dose/large amounts of therapy are possible

Ref ID	Source	Setting, design and subjects	Intervention	Outcomes		Evidence quality (SIGN checklist score) and comment
			in a challenging outdoor environment. Also enriching excursions with rehabilitation personnel, enabling goal-directed training in various environments.			
206	Enriched, Task-Specific Therapy in the Chronic Phase After Stroke: An Exploratory Study. <i>Journal of Neurologic</i> <i>Physical Therapy</i> , 44:2	baseline, 3 weeks treatment (6 days a week, (31 hours/week), 3 and 6 month follow up (5 measurement points) 41 subjects, mean age (59.6 years) , mean of 36 months post- stroke	hours task specific UL training = repetitive functional training in everyday tasks, meaningful for the individual. E = 'an intervention to increase motor, sensory, cognitive, and social activity by providing a stimulating environment.' Only within subject baseline control period (which included 5.6 ± 3.8 hours of therapist led rehabilitation)	functional motor performance, measured with the Modified Motor Assessment Scale (MAS) according to Uppsala University Hospital (MMAS UAS) – M-MAS UAS is a functional test designed to assess 8 motor components in individuals with stroke: supine to side lying, supine to side lying, supine to sitting over side of bed, sitting, sitting to standing, walking, upper arm function, hand movements, and fine motor activities; the latter 3 components are assessed bilaterally	whole study cohort received a mean of 75.3 ± 19.2 hours of physical therapy. Measures at baseline 1 and 2, post-ETT 1,2,3 Only comparison that seems to be made is baseline 2 to post-ETT 1 Without correction for B1 to B2. MMAS UAS SRM after ETT 1.28 (increase 2.3 points), at 6 month follow up 0.92 (increase 2.4 points), both p<0.001 Immediately after the intervention, significant gains were also observed in balance	No SIGN guidance for this design Chances of false positive – small. Probably useful in the 'high dose' category rather than ETT.

Ref ID	Source	Setting, design and subjects	Intervention	Outcomes	Results	Evidence quality (SIGN checklist score) and comment
					task performance as measured by Falls Efficacy Scale and improved the perception of life satisfaction as measured by LISAT. The level of depression and fatigue was also significantly improved after treatment completion, as was patient- reported mobility, anxiety/depression, and the overall health status according to EQ-5D. Note SRMs are quite large	