

Supplementary Material

Supplementary Material 1. Trexo Session Forms: "Trexo Session Tracking" forms will be completed by study researchers attending the Trexo physiotherapy intervention sessions. The "PT/PTA Summary Log Sheet" and "Session Activity Tracking Log" will be completed by treating PTs/PTAs. Each form is completed per session.

Supplementary Material 2. MRI Scan Parameters: structural, diffusion, and resting state functional scans.

	3D T1	3D T2	dMRI	fMRI
Sequence	3D MPRAGE	SPACE	Echo planar (b=1000,1600, 2600 mm ²)	EPI BOLD
Field of view (mm ³)	256	256	244	222
Slice orientation	Sagittal	Sagittal	Transversal	Transversal
TE (ms)	1870	409	73	30
TR (ms)	3.1	3200	3800	1500
Flip Angle (°)	9	-	-	70
Voxel Size (mm isotropic)	0.8	0.8	2	3
Slice Thickness (mm)	0.8	0.8	2	3
Number of slices (contiguous)	240	190	70	50
Directions	-	-	36, 46, 67	-
Scan time	5 min 03 s	7 min 22 s	2 min 35 s, 3 min 13 s, 4 min 33 s	5 min 10 s

Supplementary Material 3. Trexo Physical Adjustment Template: to be completed during the Trexo fitting/acclimation session(s), pre-intervention. This will include measurements and first steps in the Trexo to ensure comfort of fit.

Study ID: I	Recorder's Initials:	Trexo Session Tracking, Continued Date: MM-D Trexo Session Tracking	DD-YY: Session #:
Staff present/role in	the session: 1.	2	
1		4	
C:	Chart times and	End of smalleine in Trans	
		et-up completed: End of walking in Trexc	
individual session:	OR Gym/group s	session: Location of session:	
1. Start time: <u>0:00</u>	_ *Pace (steps/min):	Pace or other setting changes while moving:	
*Stop time:	_ *Total Steps Taken:	Reason for stop:	Time paused (from stop watch): _
Physical activity de	one:	Reason for stop: Adjustments made while stopped:	
2.Start time: 0:00	*Pace (steps/min):	Pace or other setting changes while moving:	
		Reason for stop:	
Physical activity de	one:	Adjustments made while stopped:	Time paused (from stop water).
• • • • • • • • • • • • • • • • • • • •	() () () () () ()		
		Pace or other setting changes while moving:	
		Reason for stop:	
Physical activity de	one:	Adjustments made while stopped:	
4. Start time: <u>0:00</u>	*Pace (steps/min):	Pace or other setting changes while moving:	
*Stop time:	*Total Steps Taken:	Reason for stop:	Time paused (from stop watch):
Physical activity de	one:	Adjustments made while stopped:	
5. Start time: 0:00	*Pace (steps/min):	Pace or other setting changes while moving:	
		Reason for stop:	
		Adjustments made while stopped:	
6 Start time: 0:00	*Paga (stans/min):	Page or other setting changes while moving	
		Page or other setting changes while moving:	
		Reason for stop:	
rnysical activity de	ліс	Adjustments made while stopped:	
7. Start time: <u>0:00</u>	_ *Pace (steps/min):	Pace or other setting changes while moving:	
*Stop time:	_ *Total Steps Taken:	Reason for stop:	Time paused (from stop watch):
Physical activity de	one:		

Child's Study ID:	Recorder's Initials:	Trexo Session Tracking,	Continued Date:	MM-DD-YY:	Session #:
*Total number of step	os taken in this session:	*Total session walk ti	me on tablet:		
*Cumulative # of step	os for all sessions:	*User initiation % Lef	t leg:	% Right leg:	
Number of pauses for	adjustments/repositioning during	ng session (<u>NOT</u> stops don	e to allow a stand	ing activity):	_
*Support level:	Any changes in su	pport level during session?	No Y	Yes	
If yes, please indicate r	new level and when this occurre	d in the session and comm	ents on rationale	for change:	
Pacing Notes through	out session:				
Endurance mode or S	Strength mode:				
* Left side ROM setti	ngs at start of session: Hip ma	x ext Hip max flex	Knee ma	ax flex Knee	e min flex
Any left side ROM ch	anges during session? No	Yes If <u>yes</u>	s, specify new rar	nges and rationale f	or change:
NEW RANGE: <u>Hip</u> ma	ax ext Hip max flex	Knee max flex	Knee min flex	 Changed @ S	ession time:
* Right side ROM set	tings at start of session: <u>Hip</u> m	ax ext Hip max flex	x <u>Knee</u> m	ax flex Kne	e min flex
Any right side ROM c	hanges during session? No	Yes If <u>ye</u>	s, specify new ra	nges and rationale	for change:
NEW RANGE: <u>Hip</u> ma	ax ext Hip max flex	Knee max ext	Knee min flex _	Changed @ S	ession time:
Comments about sessi	on pauses, tasks, communication	on, Trexo training challenge	es, session highlig	thts, social interacti	ons, fatigue
				_	
Recorder's name and	Signature:			Date:	

	mm-dd-yyyy							
	Trexo PT Session Activity Log							
	$J \sim J$							
	'2' in ALL other boxes that the	•	-	on.				
	 The focus of an activity can change from session to session. Activity details should include limb(s) (right/left) and joint(s) as appropriate. Also please note the <u>location</u> where activity took place 							
	Tetrvity details should include	7 mmb(s) (fight/f				l location when		. piace
#	Activity Details (and location) Individual OR Gym Class	Duration (min)	Trexo walking distance (endurance)	Trexo walking speed (fitness)	Functional use of Trexo	Directional control of the Trexo	Quality of Gait in Trexo	Neck, Trunk Control in Trexo
			Focus on upper limb use in Trexo	Focused dual tasking while in Trexo	Other (specify in the box)			
1								
		Details:					1	
		Duration (min)	Trexo walking distance (endurance)	Trexo walking speed (fitness)	Functional use of Trexo	Directional control of the Trexo	Quality of Gait in Trexo	Neck, Trunk Control in Trexo
			Focus on	Focused dual	Other		<u> </u>	<u>l</u>
			upper limb	tasking while	(specify in			

in Trexo

the box)

Date: _____

Treating PT's Initials:

Child's Study ID: _____

use in Trexo

Details:

Child's Study ID: Treating PT's Initials:		Da	Date:					
						mm-d	d-yyyy	
#	Activity Details (and location)	Duration (min)	Trexo walking distance (endurance)	Trexo walking speed (fitness)	Functional use of Trexo	Directiona I control of the Trexo	Quality of Gait in Trexo	Neck, Trunk Control in Trexo
3			Focus on upper limb use in Trexo	Focused dual tasking while in Trexo	Other (specify in the box)			
		Details:						
		Duration (min)	Trexo walking distance (endurance)	Trexo walking speed (fitness)	Functional use of Trexo	Directiona l control of the Trexo	Quality of Gait in Trexo	Neck, Trunk Control in Trexo
4			Focus on upper limb use in Trexo	Focused dual tasking while in Trexo	Other (specify in the box)			
		Details:						
PT's/P	TA's Signature:		D	Pate:				

Study Number:	Session Date:
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Trexo: PT/PTA Summary Log Sheet

	Tiexo. I 1/1 1A Summary Log Sheet					
	To be completed after <u>each</u> session					
1.	Positive aspects of the session:					
2.	Challenges encountered in the session:					
3.	Specific pain/discomfort/other issues associated with the session:					
4.	Ideas for next session:					
5.	Any follow-up action from today's session:					
6.	Home program ideas/changes					
7.	Other interventions (therapy or medical)/special physical activity since last session:					
PT	Signature: Date:					



TREXO PHYSICAL ADJUSTMENT TEMPLATE

Note – settings may change over time.

Participant Profile: (name on Trexo tablet)	Baseline Range of Motion				
	LEFT LEG				
Hip to Knee (cm):	Max Extension	Max Flexion			
HIP					
Knee to Floor (cm):	Max Flexion	Min Flexion			
KNE	E				
Hip Width (cm):					
	RIGH	RIGHT LEG			
Trexo Motor Width:	Max Extension	Max Flexion			
HIF					
Foot Plate Size:	Max Flexion	Min Flexion			
KNE	E				
Shin Cuff Size:					
Silli Cull Size.	T C 4 Fauce				
	Trexo Support Force	2:			
Rifton Height:					
Seat Height:					
Considerations for Sessions:					