





## **End of Phase 1 Implementation Questionnaire**

## TRANSLATING NEUROREHABILITATION RESEARCH INTO CLINICAL PRACTICE: THE SENSE IMPLEMENT PROJECT

Please take a moment to fill out this questionnaire. We are interested to find out about your experience with using SENSe assessment methods and your current approaches to treating somatosensory loss in your clinical setting. When you have finished, please return this survey to the Associate Researcher.

Section A -	<b>Background Information</b>	
Therapist initia	ls	Date [0 12 19
Gender:	☐ Male ☐ Female	
Discipline:	Occupational Therapy	☐ Physiotherapy ☐ Other
Degree level:	☐ Bachelor's degree	☐ Coursework Masters ☐ Masters
	☐ Doctoral	☐ Other
Years of OT/PT Experience:	5	Current Position: OT - Grade 2
Years experien working with stroke clientele	3	Workplace (please specify): Epworth Richmon
How many hou	urs do you work as an OT/PT in a	typical work week?
to.		
Have you used	SENSe Assess with SENSe equip	ment to measure upper limb sensory loss in your clients?
☐ Yes ☐	No	
If yes, please e	estimate how many stroke client	s you have used SENSe assessment measures with:
If yes, please e	estimate how many other clients	you have used SENSe assessment measures with:
-	4	







When a stroke client presents with suspected equipment?	sensory loss, would you use SENSe Assess measures and
☑ Yes ☐ No	
	measures and equipment with stroke clients?
<ul><li>☑ Rarely</li><li>☐ Sometimes</li><li>☐ Often</li></ul>	
□ Always	
Comments: Flyctuating stroke admissions	clients on neuro
Section B- Somatosensory Assessme	ents
We are interested to find out about your practice ir SENSe Implement project. Please answer the follov	n assessment of somatosensory loss since starting with the ving questions:
<ol> <li>How often do you assess for sensory loss fo</li> <li>□ Never</li> </ol>	or clients with stroke? Please tick one only.
□ Rarely	
☐ Once a month	
Once a fortnight	
Once a week	
2-3 times a week	
4-5 times a week	
□ Other (please specify)	
2. What clinical sensory assessments do you no	ormally use for clients with stroke? <i>Please tick all that</i>
apply.	and the energy with stroke: Thease tick an that
□ None	☐ Two-point discrimination
Light touch (fingertip, cotton wool)	Stereognosis/tactile object discrimination
Pressure (fingertip)	Proprioception/kinesthesia (limb matching)
Hot-cold discrimination (e.g. test tubes)	☐ Proprioception/kinesthesia (thumb up/down)
☐ Vibration	☐ Texture discrimination (3-5 textures)
Pain	☐ Other (please specify)
☐ Point localization tests	C (40) (ACC (40) (ACC (40) (40) (40) (40) (40) (40) (40) (40)







<b>3.</b> Which of the followhat apply.	owing standardis	ed somatosensory assessments o	lo you <b>currentl</b> y	<b>y</b> use? <i>Please tick all</i>
<ul> <li>□ Nottingham Sens</li> <li>□ Monofilaments: S</li> <li>□ Wrist Position Se</li> <li>□ Tactile Discrimina</li> <li>□ Functional Tactile</li> <li>□ Manual Form Per</li> <li>□ SENSe Assess Kit</li> </ul>	Fory Assessment Semmes-Weinstense Test (WPST) Pation Test (TDT) Pe Object Recognic Sception Test (Ay	ein or WEST hand monofilaments tion Test (fTORT)		
4. For what reasons	would you condu	uct a sensory assessment? Please	tick all that ap	ply.
☐ Diagnosis ☐ Prognosis ☐ Treatment planni ☐ Discharge plannir ☐ Education ☐ Other (please spe	ng	z.		
		ment with the following stateme ation of stroke clients in my clin		one number only)
Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
1	2	3	<b>(4)</b>	5
Comments:				
the line provided:		s by indicating the level of impor		ng a vertical line on
6. How important do	you consider as	ssessing sensation in your practi	ce?	Ĩ
Not at a	l important		Very	 important
Comments:				







		1	Ť	
Not at a	    skilled	1 1 1	Very ski	lled
Comments:				
			77.1	
8. How confident a	re you in your al	bility to detect sensory loss?		
	Line Section 19	Godina of the	T. Har Trop	
Not at a Comments:	ll confident		Very c	onfident
				Tues 1
statements (please of "Since starting in the	ircle one number	ent Project, I have gained knowle		
statements (please of "Since starting in the somatosensation in Strongly disagree	e SENSe Implement a client with street	ent Project, I have gained knowle oke in a standardized way"  Neither agree nor disagree		ssess Strongly agree
statements (please of "Since starting in the somatosensation in	e SENSe Implement a client with street	r only) ent Project, I have gained knowle oke in a standardized way"	dge in how to a	ssess
statements (please of "Since starting in the somatosensation in Strongly disagree	e SENSe Implement a client with street	ent Project, I have gained knowle oke in a standardized way"  Neither agree nor disagree	dge in how to a	ssess Strongly agree
statements (please of "Since starting in the somatosensation in Strongly disagree	e SENSe Implement a client with street	ent Project, I have gained knowle oke in a standardized way"  Neither agree nor disagree	dge in how to a	ssess Strongly agree
statements (please of "Since starting in the somatosensation in Strongly disagree	e SENSe Implement a client with street	ent Project, I have gained knowle oke in a standardized way"  Neither agree nor disagree	dge in how to a	ssess Strongly agree
"Since starting in the somatosensation in Strongly disagree  1 Comments:	e SENSe Implementa client with street Disagree	ent Project, I have gained knowle oke in a standardized way"  Neither agree nor disagree	Agree	Strongly agree
"Since starting in the somatosensation in Strongly disagree  1 Comments:	e SENSe Implementa client with street Disagree	ent Project, I have gained knowle oke in a standardized way" Neither agree nor disagree 3	Agree	Strongly agree
"Since starting in the somatosensation in Strongly disagree  1 Comments:	e SENSe Implema client with strong Disagree  2	ent Project, I have gained knowle oke in a standardized way"  Neither agree nor disagree  3  ent Project, my method of assess	Agree 4	Strongly agree 5 as changed"
"Since starting in the somatosensation in Strongly disagree  1 Comments:  "Since starting in the Strongly disagree	e SENSe Implementa client with street Disagree  2  e SENSe Implementa client with street Disagree  2  e SENSe Implementa Disagree	ent Project, I have gained knowle oke in a standardized way"  Neither agree nor disagree  3  ent Project, my method of assess  Neither agree nor disagree	Agree 4	Strongly agree  5  s changed"  Strongly agree







To. How satisfied an	e you with selvs	e Assess measures overail?		
Not at a	ll satisfied	1	Very	satisfied
Comments:				
			ж	
<b>11.</b> Please indicate y only)	our level of agre	ement with the following st	atements (please cir	cle one number
" I find the Tactile Di	scrimination Tes	st (TDT) useful in my clinica	l practice"	
Strongly disagree	Disagree	Neither agree nor disag	gree Agree	Strongly agree
1	2	3	(4)	5
" I find the Wrist Pos	sition Test (WPS	Γ) useful in my clinical prac	tice"	
Strongly disagree	Disagree	Neither agree nor disag	ree Agree	Strongly agree
1	2	3	4	5
" I find the functiona	I Tactile Object	Recognition Test (fTORT) u	seful in my clinical p	ractice"
Strongly disagree	Disagree	Neither agree nor disag	ree Agree	Strongly agree
1	2	3	(4)	5
"Overall, I find the S	ENSe_assess me	asures useful in my clinical	practice"	
Strongly disagree	Disagree	Neither agree nor disag	ree Agree	Strongly agree
1	2	3	4	5
"SENSe_assess is a g	ood fit with my	clinical approach to assessr	nent"	
Strongly disagree	Disagree	Neither agree nor disag	ree Agree	Strongly agree
1	2	3	(4)	5







12. Please indicate your level of agreement with the following statement (please circle one number only)

"I am aware of the published research on assessments for somatosensation following stroke"

Neither agree nor disagree Strongly agree Strongly disagree Disagree Agree 2 5 1 Please list the types of resources you are aware of: **Section C - Somatosensory Treatment** 13,00 you currently treat sensory loss for clients with stroke? Please tick one only. Yes No 14. If you do treat for sensory loss, please indicate body areas that you typically focus on Please tick all that apply. Lower limb (legs and feet) Ø Upper limb (shoulder, arms, hand) Trunk Other (please specify): \_\_\_\_\_ 15. If a stroke client has impaired body sensation, how often do you treat sensory impairment? Please tick one only. Always 1 Frequently Occasionally Rarely Never Comments: 16. Please indicate your level of agreement with the following statement (please circle one number only) "I believe it is my role to treat somatosensory impairments of stroke clients in my clinical practice" Strongly agree Strongly disagree Disagree Neither agree nor disagree Agree 5 1 2 3 Comments:







	ich sensory modalities do you think are important to treat in your clinical setting?
Please	tick all that apply.
	None
	Pain
	Touch detection
	Proprioception discrimination (position sense)
	Hot-Cold detection/discrimination
	Texture discrimination
	Two-point discrimination
	Vibration sense
	Sustained pressure
	Kinesthesia (detection of bodily position, weight, or movement of the muscles, tendons, and joints)
	Stereognosis/object discrimination (recognition or identification of objects by use of touch)
	Graphesthesia (recognition of writing on the skin by the sensation of touch)
	011
	Other (please specify)
10 For	what reasons would you treat comptessance with mainments of the connection 2
	what reasons would you treat somatosensory impairments of the <u>upper limb</u> ?
//	tick all that apply
	Impact on a client's independence in activities of daily living
	Impact on a client's life roles
	Client safety
	Impact on sensory capacity
Ø	Impact on motor function
	Learned non-use
	Other (please specify)
	at types of somatosensory rehabilitation approaches do you currently use?
Please 1	tick all that apply.
	None
2/	Compensatory strategies (e.g. education regarding hazards)
	Repeated exposure to sensory stimuli
$\square$	Sensory re-education (i.e. including feedback through vision, subjective grading of stimuli, verbalization of
	sensation between both hands)
	Somatosensory discrimination training
	Bombardment (e.g. vibration or hot/cold)
	Finding objects in medium such as sand or rice
	Structured activities/games (e.g. ball work, blind dominoes)
	Sensory rehabilitation in the context of everyday activities (e.g. dressing, cooking)
	Desensitization
	Light touch stimulation
	Match or identify textures, shapes and/or objects
	Discrimination of limb positions and movement
	Joint approximation
	Weekly retesting with feedback
	General stimulation using sensory stimuli
Specific	sensory rehabilitation approaches:
	Graded sensory exercises with feedback (Yekutiel and Guttman, 1993)
	Attended stimulation of specific body sites (Dannenbaum & Dykes, 1988).
	Accorded stitution of specific body sites (Dainfellbaulli & Dykes, 1300).

Version 1.0, 15.9.17







	Stimulus spe Stimulus ger	neralization trainii	t al., 2003) ning (e.g. of touch sensa ng to enhance transfer ( training (Carey et. al., 2	Carey et al.,			
Other o	Cutaneous e Intermittent Thermal stin	nulation (via hot a essure splint (Poc	n Pression (Cambier, 2003) and cold packs) (Chen, 20				
	Other	Please indicate	method/s in brief detail	within this b	pox		
20. Hov	Noften would Never Rarely Once a mon Once a fortr Once a weel 2-3 times a v 4-5 times a v Other (pleas	th night k week week	ese treatments? <i>Please t</i>	ick one only			
	er what timef tick one only. Never Once only ≤ 1 week 1-2 weeks 3-4 weeks 5-6 weeks Other:		typically conduct these t	reatments v	vith a stroke	client?	
			ement with the following				
"Ine c	urrent somat	osensory renabili	tation approaches I use	are genera	пу ептестіле	ior most ci	ients
Strong	ly disagree	Disagree	Neither agree nor d	isagree	Agree	Strongly	/ agree
2	1	2	3		4		5







Comments:				
		1		
23. Please indicate y	our level of agree	ment with the following stateme	nt <i>(please circle</i>	one number only)
"There is a need to practice"	change the currer	nt method of treating somatosen	sory impairme	nts in my
Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
1	2	3	(4")	5
Comments:	curre	if interi	effection	iveness
		ving a vertical line on the line provereating somatosensory impairmen		
				Ĭ
Not at a	all important		Very	important
Comments:				
25. How would you	rate your skill leve	el in treating sensory loss?		
Not at	all skilled		Very sk	] :illed
<b>26.</b> How confident a		ility to treat sensory loss?		
Not at	all confident		Very	confident
Comments:				







27. How satisfied are	you with the sensor	y rehabil	itation a	approach	es you are cur	rently c	onducting?
Not at a	[    satisfied		1			\ <u>\</u>	.:_£:_ J
						Very sa	tistied
Comments:	The second second second			77176	7 . C	finger of the	Tayler age
28. Please indicate yo	our level of agreemer	nt with th	ne follov	ving state	ement (please	circle o	ne number only)
"I am aware of the p stroke"	ublished research or	n interve	ntions f	or somat	osensory imp	airmen	ts following
Strongly disagree	Disagree	Neither a	agree nç	r disagre	e Agree		Strongly agree
1	2	/	3	)	4		5
Please list the types of	of resources you are a	aware of					
	a line and qualities	1 177.3	VIII. IT DA	10 120	11 Charles 20	00	
	سامه ۱۱۰۰ کیار اوجمیر	, i ieripik	W 1923				<u>abradi B</u>
proman,		-			- 18 VI-1 III	L WILLIAM	
29. Please indicate w		ation info	orms yo	ur clinica	decision mak	ing in th	nis practice:
Please circle one num	iber in each row	790	Never	Rarely	Sometimes	Often	All of the time
Experience with simil	ar clients in the past		1	2	3	(4)	5
Colleagues opinion		w n3	1	2	3	4	5
Research literature	- 1		1	2	3	4	5
Short courses/continu	uing professional dev	elopmen	t 1	2	3	4	5
Text books			1	2	3	4	5
Undergraduate cours	e materials		1	2	3	4	5
Other (please specify)	):	3 8			a		







## Section D – Experience of using SENSe Assess

-	you experienced any <b>barriers</b> to adopting or implementing the use of SENSE Assess to conduct obsensory assessments with stroke clients?  Yes  No
If Yes, p	Unsure of how to conduct assessments Unsure how to score assessments Unable to access equipment in my working area Lack of time Lack of interest Large caseload Difficulty in setting up assessment equipment Difficulty engaging clients in the SENSe Assess assessment process Faults with SENSe Assess Equipment Limited resources to support change in this area Lack of support from colleagues Lack of support from my supervisor or management Lack of support from research team Other (please specify)
	ve you experienced any <b>enablers</b> to adopting or implementing the use of SENSE Assess to conduct of sensory assessments with stroke clients?  Yes  No
	Ability to refer to training manual when conducting assessments Ability to refer to training manual when scoring assessments Ease of access to equipment in my working area Designated time to practise assessment skills Interest in somatosensory assessment Manageable caseload Availability of instructions to set up assessment equipment Interest of clients in the SENSe Assess assessment process Design and use of SENSe Assess Equipment Available resources to support change in this area Support from colleagues Support from my supervisor or management Support from research team Other (please specify)







32. Please comment on additional factors within your w	orking environment that lead you to feel
supported or unsupported in your ability to conduct SEN	Se Assess in the way that you'd like:
Comments:	
<del></del>	
33. How would you rate the degree of ease when setting clinical setting?	g up the SENSeAssess equipment within your
Not at all easy	Very easy
Please provide comments on your experiences:  BURY, LAYGE AMOUNTED TO PACK  ON FOR TOP OF AX	nt of components dozen time and documentation
<b>34.</b> How would you rate the degree of ease in completing	g scoring of SENSe Assess?
o a sa agree gas er ga f jer i i i i at at a	t i mykde skrein in sid ik
Not at all easy	Very easy
Please provide comments on your experiences :	
<b>35.</b> Do you intend to use SENSe Assess to assess upper lin	mb somatosensory impairment in the future?
Yes No	
Please provide reasons: Providly OW OM CHEEN CHEEN	come measures







**36.** As part of the Phase 2 of the SENSe implement project we want to find out how accurately SENSe therapy is being delivered. This is defined as "treatment fidelity" in the current literature.

There are several strategies recommended in the literature to help to assess and enhance the treatment fidelity process. Each strategy provides therapists with the opportunity to receive feedback on their performance and information on how they can improve their practice.

We would like to now understand from your perspective how comfortable you would feel using each of the strategies outlined below, and how feasible each could be to implement within your workplace. Please rate the following:

1) Self-evaluate own performance using pre-developed checklist.

Level of comfort wit	th proposed strategy			
Not at all comfortab	ole		Very comf	ortable
1	2	3	4	5
Feasibility of impler	menting proposed str	ategy in your workplace		
Not at all feasible			Very	/ feasible
1	2	3	4	5
2) Peer observation	n and feedback by SE	NSe clinician using pre-	developed checklist.	
Level of comfort wi	th proposed strategy			

Feasibility of implementing proposed strategy in your workplace

2

Not at all feasible		$\hat{A}$		Very feasible
1	2	(3)	4	5

3

Very comfortable

5

Not at all comfortable

1



Version 1.0, 15.9.17





14

3) Real time observation	and feedba	ck by SEN	Se Trainer.				
Level of comfort with prop	oosed strate	≘gy_					
Not at all comfortable					Ve	ery comfort	able
1	2		3		4		5
Feasibility of implementing	g proposed	strategy i	n your work	<u>olace</u>			
Not at all feasible						Very fea	asible
1	2		3		4		5
4) Video recorded observa	ation and fe	edback b	y SENSe Trai	ner.			
Level of comfort with prop	osed strate	gy					
Not at all comfortable					Ve	ry comforta	able
1	2		3		$\left(4\right)$		5
Feasibility of implementing	proposed :	strategy ir	n your workp	lace			
Not at all feasible			$\rightarrow$			Very fea	sible
1	2		( 3)		4		5
Section E – Other							
	Ot	her comn	nents or sugg	estions:			
Sylvenia (							
1					***************************************		
						-	-







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You have come to the end of the survey. Thank you for your participation.

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