Supplementary material 7: Stakeholder Activity 6a: Research

recommendations

| TASK 6. Re | search recommendations |
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| | Research gaps relating to perceptual problems after stroke. |
| Task aim | To agree the research gaps relating to perceptual problems after stroke. |
| 2. Methods | |
| Who was involved? | Lived Experience Group n=2, Clinical Expert Group n=2, Research team n= $\frac{98}{2}$ |
| When was the involveme nt? | A meeting was held in December 2021. This occurred after completion of data synthesis and analysis for both the scoping and Cochrane review. This is considered as involvement during Stage 10-11, interpretation of findings. |
| What happened? | A 2-hour meeting was held via videoconference. Prior to the meeting, the stakeholders were contacted by email and asked to submit research questions / gaps, based on their consideration of the review findings. In addition, the research team went through notes and transcripts from previous stakeholder meetings and extracted any proposed research gaps / questions / recommendations. |
| | During the meeting, previously submitted and identified research gaps were presented, grouped into research questions which addressed the whole / general topic of post stroke perceptual impairment, and research questions which addressed a specific sense. With the presentation of each group of research questions, stakeholders were asked if any important questions / research gaps were missing. These were written down as they were discussed, so that stakeholders could clarify or comment on wording of the questions. |
| | Following the meeting, the research questions were collated. Where research questions were addressing similar topics, these were brought together into a stated research gap which may reflect more than one research question, however the original research questions were linked to these stated research gaps in order to ensure transparency. The collated research gaps / questions were then circulated by email to all stakeholders, asking them if these were comprehensive or whether they could identify any further research gaps / questions. Any additional submissions were added to the collated list. |
| Level of involveme nt? 3. Results | The aim was that stakeholders contributing to this task would control the final review, having generated statements of research gaps which would directly inform Activity 6b, and the generation of research recommendations. |
| Outcomes —Report the results | The collated list of research gaps (and summed score) was as follows: 1. RESEARCH PRIORITIES RELATING TO PERCEPTUAL |
| of | PROBLEMS IN GENERAL |
| stakeholder | We need: |

| involveme | Research to enhance robust assessment of perceptual problems following |
|-----------|--|
| nt in the | stroke |
| study, | STORE |
| including | This includes (1) finding the best way to assess perception, including in those |
| both | who have other impairments, such cognitive (thinking) impairments or other |
| positive | illnesses (2) finding the best way of telling the difference between perceptual |
| and | problems and other problems (e.g. sensory, cognitive) (3) Assessing how |
| negative | perceptual problems affect function (such as everyday skills) (4) |
| outcomes | Assessments done as part of clinical practice, and outcome measures |
| outcomes | assessed for research studies. |
| | Research to establish the prevalence of perceptual problems following |
| | stroke |
| | |
| | This includes (1) finding the frequency (prevalence) of perceptual problems |
| | after a 1^{st} stroke (2) finding the frequency of perceptual problems after a 2^{nd} |
| | or subsequent stroke (3) exploring patterns of natural recovery, including |
| | long term recovery (4) exploring the relationship between perceptual |
| | problems and other stroke-related impairments |
| | Research to determine interventions currently delivered for perceptual |
| | disorders |
| | |
| | This includes exploring (1) what is 'usual care' provided to stroke survivors |
| | with perceptual problems? (2) what interventions are currently delivered in |
| | the 'real world', and what is the nature of these interventions? (3) what is the |
| | nature of current long-term care for people with perceptual problems? |
| | Research to explore the lived experiences of stroke survivors and carers |
| | |
| | This includes (1) Exploring their experiences and the impact of perceptual |
| | problems on daily lives (2) exploring their awareness and understanding of |
| | their perceptual problem (3) finding what is most important to stroke |
| | survivors and carers (4) identifying what support services they need (5) |
| | exploring long term impact |
| | Research to establish best ways of providing teaching / ensuring |
| | adequate knowledge and understanding of professionals (including those |
| | working in health and social care, and in charity/3 rd sector organisations) |
| | Research to explore current care delivery and pathways, across NHS, |
| | social care and charities |
| | This includes (1) who is providing are (2) what are/convised are provided |
| | This includes (1) who is providing care (2) what care/services are provided (3) when and where are aprovided (4) when and how are |
| | (3) when and where are care/services provided (4) when and how are |
| | referrals to specialists made (6) are there clean pathways and plans for care |
| | for perceptual problems (7) acceptability to stroke survivors and carers |
| | Research that explores interventions in a way that reflects real world |
| | needs (for stroke survivors and clinicians) This includes |
| | |
| | (1) using or creating outcome measures that reflect stroke survivors' |
| | priorities (2) exploring interventions currently in use, or readily accessible to |
| | clinicians (3) exploring intervention / service costs (4) explore feasibility, acceptability and sustainability (5) includes all relevant populations, and |
| | considers co-morbidities |
| | |

Research to establish a clear definition of perception

Research to explore the impact of perceptual impairment on the family and carers

This includes

1) what is the impact on children of stroke survivors (2) What do family members provide by way of support for individuals with perceptual problems? (3) What is the impact on family members and carers of providing support to individuals with perceptual problems e.g. caregiver strain, depression, quality of life

2. RESEARCH PRIORITIES RELATING TO VISUAL PERCEPTION

There are a lack of studies relating to visual perception and a lack of evidence about effective interventions.

Future research should address the following questions:

| -uture rese | earch should address the following questions: |
|--|--|
| How w | vell is the whole visual system (or hierarchy) assessed? |
| How et | ffective are current interventions? |
| | gst GPs and other health and social care practitioners, what is their edge of, and attitude about, visual perceptual disorders? What are |
| their tr | aining needs? |
| percept | re the professionals involved in providing care of people with visua tual disorders and what are their roles and referral pathways? Are pathways they working/effective? |
| Within assesse | current clinical practice, when are visual perceptual problems bein ed/addressed? How does this vary in different geographical What is best practice? |
| | cceptable' are different interventions (types, intensities, etc)? |
| | re the experiences of stroke survivors? (How does a stroke patient |
| What a | |
| | |
| cope w meanir | ith visual disorders? Does what they see impact on their perceptual |
| cope w meanir 3. RESEA There are a bout effect | th visual disorders? Does what they see impact on their perceptual (ag?) RCH PRIORITIES RELATING TO SOMATOSENSATION (a lack of studies relating to somatosensation and a lack of evidence (ctive interventions. |
| cope w meanin 3. RESEA There are a bout effect Future rese | with visual disorders? Does what they see impact on their perceptual ag?) RCH PRIORITIES RELATING TO SOMATOSENSATION a lack of studies relating to somatosensation and a lack of evidence extive interventions. earch should address the following questions: |
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| cope w meanin B. RESEA There are a bout effect Future rese How w How ca among | The visual disorders? Does what they see impact on their perceptual ag?) RCH PRIORITIES RELATING TO SOMATOSENSATION a lack of studies relating to somatosensation and a lack of evidence trive interventions. earch should address the following questions: |
| cope w meanin B. RESEA There are a bout effect Future rese How w How ca among and soo | The visual disorders? Does what they see impact on their perceptual ag?) RCH PRIORITIES RELATING TO SOMATOSENSATION a lack of studies relating to somatosensation and a lack of evidence extive interventions. Exarch should address the following questions: Yell is somatosensation assessed, in current clinical practice? an understanding and awareness of somatosensation be improved, st stroke survivors, their families and carers, and the wider health cial care team? |
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| cope w meanin 3. RESEA There are a bout effect Future rese How w How ca among and soc What a Among import and wh | The visual disorders? Does what they see impact on their perceptual ag?) RCH PRIORITIES RELATING TO SOMATOSENSATION a lack of studies relating to somatosensation and a lack of evidence extive interventions. arch should address the following questions: rell is somatosensation assessed, in current clinical practice? an understanding and awareness of somatosensation be improved, st stroke survivors, their families and carers, and the wider health chal care team? re, and how effective are, current interventions? gst GPs and other health and social care practitioners, what is the ance of knowledge of / education about somatosensation post strok to and when to refer to specialist services / other professionals? |
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| cope w meanin 3. RESEA There are a bout effect Future rese How w How ca among and soo What a Among import and wh What a workin | A characteristic structure interventions in the intervention of the interventions in the interventions is the following questions: the intervention of the intervention is the intervention of the interventing of the interventio |

| How 'acceptable' are different interv | entions (types, intensities, etc)? |
|---|--|
| | urvivors? (How does a stroke patient |
| cope with these disorders? What is | · · |
| their carers?) | 1 |
| | n balance and mobility? (How best can |
| | fied, and how can this be differentiated |
| from other factors that affect balance | |
| How is temperature perception, and | |
| affected by stroke? | r |
| | |
| 4. RESEARCH PRIORITIES RELAT | TING TO TOUCH / TACTILE |
| PERCEPTION | |
| There are a lack of studies relating to to | ich / tactile perception and a lack of |
| evidence about current interventions. | |
| Future research should address the follo | |
| How can understanding and awarene | 1 1 |
| improved, amongst stroke survivors, | their families and carers, and the |
| wider health and social care team? | |
| What are, and how effective are, cur | |
| Amongst GPs and other health and s | 1 |
| importance of knowledge of / education | |
| post stroke, and who and when to re- | ter to specialist services / other |
| professionals? | |
| | ifferent service providers)? Are they |
| working/effective? | |
| Within current clinical practice, whe | |
| problems being assessed/addressed? | • |
| perception problems, and how well a | |
| How 'acceptable' are different interv | |
| = | urvivors? (How does a stroke patient |
| cope with these disorders? What is | the impact on their lives, and that of |
| their carers?) | • 11 1.1 1 • 1 |
| | survivors, carers and health and social |
| | tactile perception, and how effective is |
| this? | iter (a a pair and the state of the |
| How does stroke affect hypersensitiv | iny (e.g. pain caused by water when |
| showering)? | |
| 5. RESEARCH PRIORITIES RELAT | TING TO TASTE AND SMELL |
| PERCEPTION | |
| There are a lack of studies relating to tas | te and smell perception and a lack of |
| evidence about current interventions. The | |
| taste and smell. | - |
| Future research should address the follow | wing questions: |
| What is the prevalence of taste and s | mell perception problems following |
| stroke? | |
| How can taste and smell perceptual | problems be identified during the acute |
| post-stroke phase? | |
| Do stroke survivors who experience | taste and/or smell problems have |

| | prolonged rehabilitation/putritional problems? |
|---------|--|
| - | prolonged rehabilitation/nutritional problems? |
| | How do taste and/or smell perceptual problems relate to social activities |
| | and participation, including enjoyment of food? |
| | What are the risks associated with disordered taste and smell and how can |
| | these risks be reduced/minimized? (e.g. hazards associated with eating |
| | dangerous food, or smelling gas). |
| | How does the perception of texture impact on palatability and enjoyment of food? |
| - | Are there any interventions for taste and/or smell which may help with rehabilitation? |
| | Amongst GPs and other health and social care practitioners, what is the |
| | importance of knowledge of / education about taste and smell perception |
| | post stroke, and who and when to refer to specialist services / other |
| | professionals? |
| | Within current clinical practice, when are taste / smell perception problems |
| | being assessed/addressed? Who is assessing for taste / smell perception |
| | problems, and how well are they doing this? |
| | What are the experiences of stroke survivors? (How does a stroke patient |
| | cope with these disorders? What is the impact on their lives, and that of |
| | their carers?) |
| | What education/training is required by stroke survivors, carers and health |
| | and social care professionals relating to taste / smell perception? |
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| | 7. Overall recommendations about research In addition to the above priorities for future research relating to perceptual problems after stroke, it is important that future research: Has consistent reporting of results Involves stroke survivors and carers Assesses outcomes that are of importance to stroke survivors and carers Has a sufficiently long follow-up period (For randomised controlled trials – is adequately powered) Assesses and documents whether participants have concurrent impairments, including more than one perceptual impairment and/or other stroke and non-stroke relating impairments Is pragmatic in relation to the clinical populations eligible for inclusion Clearly documents participant groups who are included / excluded from a study |
|--|--|
| 4. Discussion | n & conclusions |
| Outcomes — Comment on the extent to which stakeholder involveme nt influenced the study overall. Describe positive and negative | The lived experience group were able to contribute by identifying research gaps both in advance of the meeting, during discussion and post-meeting for the different senses. This information informed the development of research recommendations. We consider that the level of stakeholder involvement contribution for this meeting was at the influencing level. This was a lower level of involvement than we had planned for; the level of control the lived experience group had within this activity was limited by technical challenges which arose due to the meeting format. |
| effects | |
| 5. Reflection Comment critically on the study, reflecting on the things that went well and those that did not, so others can learn from this experience | s / critical perspective Members of the lived experience group were able to actively contribute to the development of research priorities. This meant that areas of research that were of importance to them were included in the overall report. Formulation of research priorities took place in a "live format" during the meeting. This meant switching between presentation slides during an online meeting, which proved to be challenging for stroke survivors with a visual impairment to follow. In future an alternative method of data capture should be considered during online meetings. |