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# Carers' Perspectives on How Transcutaneous Spinal-Cord Stimulation Impacts Quality of Life of Children with Spina-Bifida

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NHS

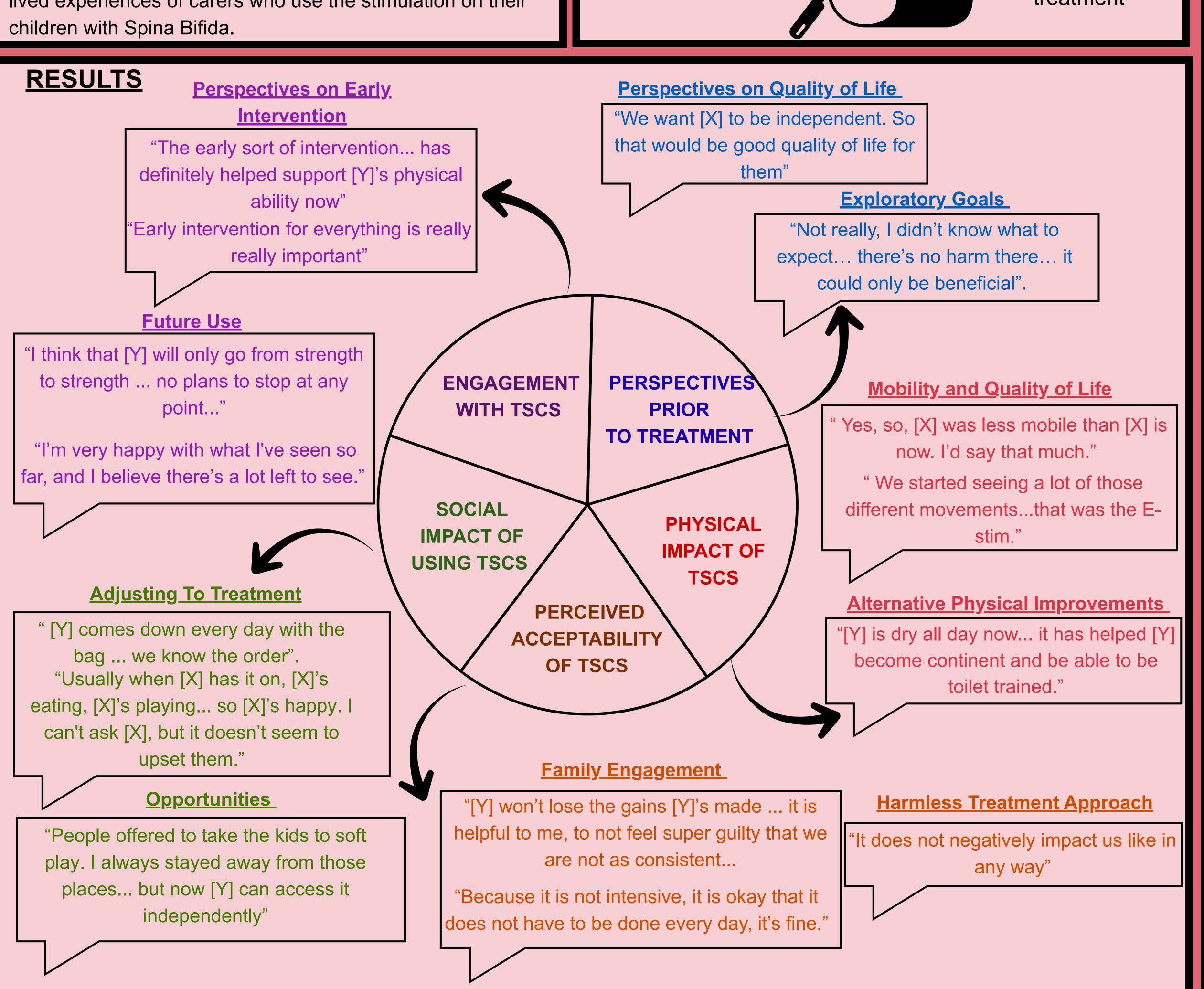
Matta P<sup>1</sup>, Spencer H<sup>2</sup>.

**METHODOLOGY** 

#### **INTRODUCTION**

- Spina Bifida is a congenital condition leading to physical and neurological impairments.<sup>1</sup>
- There are various management strategies for the condition. <sup>2</sup>
- Transcutaneous Spinal Cord Stimulation (TSCS) is an emerging rehabilitation tool. 3-4
- There is limited research on the perspectives of carers who use the treatment to manage their children's condition.
- By investigating carers' perspectives, the practical and emotional effects of using TSCS on children can be better understood. <sup>5</sup>
- The study aims to bridge the gap by gaining insights into lived experiences of carers who use the stimulation on their children with Spina Bifida.

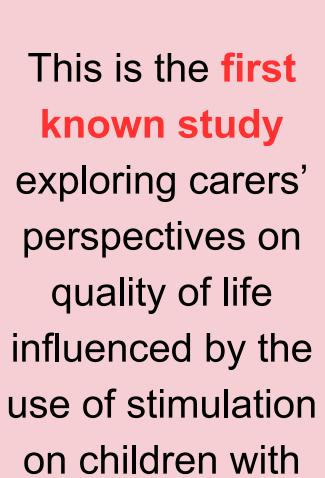
#### **PURPOSE** To lay groundwork for To explore To address the future qualitative caregivers' Biopsychosocial studies perspectives on model to understand transcutaneous the implications of spinal cord TSCS on quality of life stimulation **RESEARCH** To guide a more To address the holistic, family gap in qualitative centred approach research in this to physiotherapy field treatment



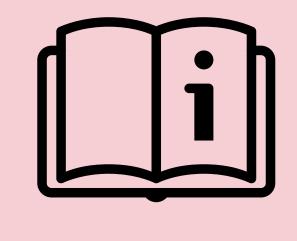


### **IMPLICATIONS**

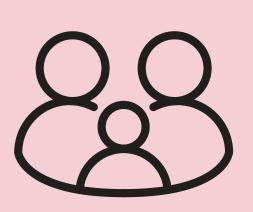




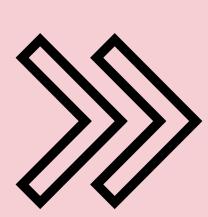
Spina Bifida.



**Guides** physiotherapists on how to tailor future transcutaneous spinal cord influenced by the stimulation treatment plans.



**Enables** physiotherapy practice to provide a family centred and holistic approach to treatment.



**Provides** a foundation for future qualitative research in this

field.

# **LIMITATIONS**

- \_imited sample size, limiting transferability of findings.
- Risk of over interpretation, despite the use of Braun and Clarke's reflexive thematic analysis.
- Possibility of self-selection bias due to all participants volunteering.
- Specific contextual data such as the child's age, baseline mobility or duration of TSCS use was not collected.

## **CONCLUSION**

- Study findings suggest that TSCS, when used alongside exercisebased activity, positively impacts carers' perceived quality of life of children with spina bifida.
- The benefits included both social and physical improvements, allowing children to participate in different activities.
- This research highlights the importance of further investigation, particularly the viewpoint of the child using TSCS.