



A WEB-BASED INTERVENTION PROGRAMME FOR PRESCHOOL CHILD-PARENT DYADS: USABILITY TESTING STUDY

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INTRODUCTION

Despite the growing number of web-based interventions, the perceived usability of these websites from the perspectives of end users or experts has rarely been reported. This information is vital, as perceptions of navigability and quality of content are likely to impact participant engagement and treatment compliance.

OBJECTIVE

To examine the usability of the i-MaChEL Web-based interactive tool specifically designed for preschool child-parent dyads

METHODOLOGY

STUDY DESIGN

A pilot, single-blind, two-group cluster randomised controlled trial. The usability study only involved experimental group

STUDY PERIOD

5 Sept 2021 to 4 Dec 2021 (3 months)

STUDY LOCATION

12 MOE public preschools in Kuala Terengganu and Kuala Nerus, Terengganu

STUDY PARTICIPANTS

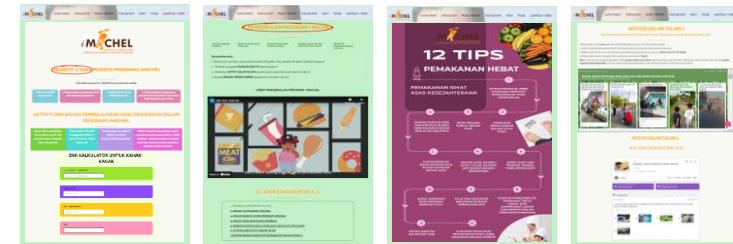
42 child-parents dyads

OUTCOME MEASUREMENT

Usability of the i-MaChEL Web-based tool

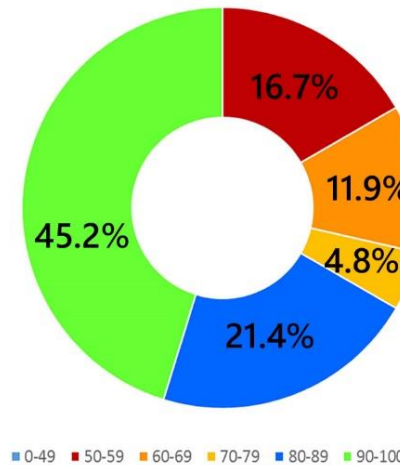
INSTRUMENT

System Usability Scale (SUS) questionnaire, a simple 10-item instrument using a 5-point Likert Scale



RESULTS & DISCUSSION

Table 1: Total SUS score for i-MaChEL website (n=42)



The findings of the study showed that **83.3% (total SUS score >60)** of the parents agreed that:

- The website was not complicated
- The users would like to use this website frequently
- The website was user friendly
- The users do not need the support of a technical person to use the website
- The different parts of the website work well together
- There was a minimum of inconsistency in the website
- They would be able to use the website easily
- They would be confident using the website
- They do not need to learn a lot of things before they can get going with the website

CONCLUSION

Result of this pilot test will inform further development and finalization of the i-MaChEL programme, which will be tested using a two-group cluster randomized controlled trial (n= 460 child-parent dyads) with the goal of reducing childhood obesity risk.