

Support through Mobile Messaging and digital health Technology for Diabetes (SuMMiT-D): Feasibility of economic evaluation

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Aim: To assess the feasibility of an economic evaluation, alongside the clinical trial to test the cost-effectiveness of the text messaging-based intervention, compared to usual care. **Methods:** The feasibility of economic data collection was assessed within the SuMMiT-D feasibility trial: a multicentre individually randomised, controlled trial in primary care recruiting 200 adults (≥ 35 years) with type 2 diabetes in England. Participants were randomised to behaviour changes or non-health related messages for 6-months. Economic data were collected using online questionnaires at baseline and 6-months. Utility was measured using the EQ-5D-5L and healthcare resource use obtained using a self-report questionnaire with 3-month recall period. Questionnaires were assessed for completeness and free-text responses reviewed to refine the resource use items. **Results:** 209 patients were randomised between November 2018 and April 2019. All participants completed the baseline questionnaires and 81% completed both follow-up questionnaires. Free-text reporting of primary care use was most common (diabetes nurse, health care assistant, phlebotomist). **Discussion:** Ensuring economic measures are acceptable increases patient engagement and ensures adherence-enhancing intervention trials are appropriately costed from the health provider's perspective. **Conclusion:** The definitive trial will use EQ-5D-5L (Baseline,13,26,52-weeks) and a modified version of the resource use questionnaire (baseline,52-weeks).

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