

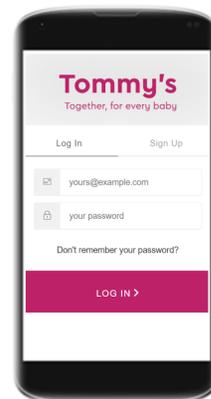
Evaluating the implementation of Tommy's Clinical Decision Tool, a device for reducing inequity in maternity care

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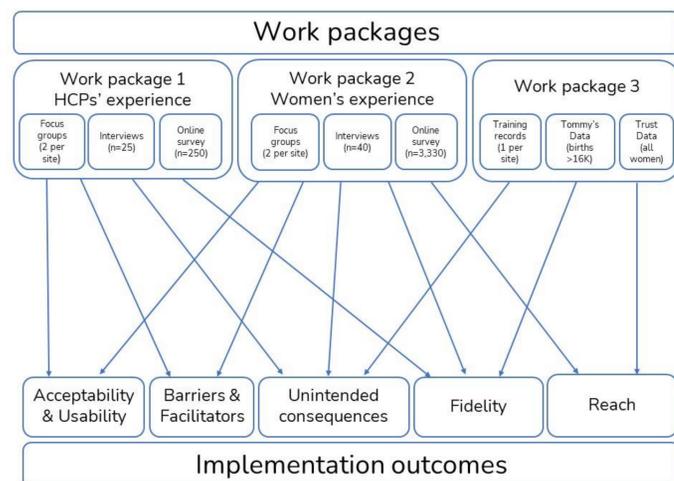
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1. BACKGROUND

- Poor perinatal outcomes are more common in those living in areas of social deprivation and from ethnic minority groups[1].
- Causes may be due to variation in care. To address this, Tommy's National Centre for Maternity Improvement developed the Tommy's Clinical Decision Tool (Tommy's App).
- This web-based tool assesses risk of preterm birth and placental dysfunction, which can lead to stillbirth, much more accurately than current methods, and recommends best evidence-based care pathways.
- A women's interface provides access to these assessments and care pathways, and sources of reliable information.
- This study is evaluating implementation of the App in five early-adopter hospitals, to inform wider scale-up[2].



2. METHODS



- Participants: women (target, n=3,300) and healthcare professionals (target, n=250).
- Data collection methods: interviews, focus groups and online surveys.
- Data analysis: thematic framework analysis and appropriate statistical methods (e.g. Chi square, t-test, regression).

Figure 1: Work packages and their relationship to implementation outcomes.

- Implementation strategy and analysis informed by NASSS (Non-adoption or Abandonment of technology by individuals and difficulties achieving Scale-up, Spread and Sustainability) framework[3] [Figure 2].

5. ACKNOWLEDGEMENTS

With thanks to the women and health professionals who took part in this study. Also to the RCOG Women's Voices Partnership and members of the Community of Practice, who have contributed to the development and success of this programme.



3. FINDINGS

Challenges Solutions

Ensuring women registered on the app are representative of those booked for maternity care

- Early findings suggest the most vulnerable women are under-represented.
- Some women find it difficult or do not wish to engage with health services.
- We introduced a facility that allows HCP to register women on their behalf during consultation.



Figure 3: Implementation outcomes.

Service preparedness for change

- Top level leadership – impetus, trust.
- Implementation plan – what needs to be done, when and by whom.
- Governance issues – who needs to approve, how and when.
- Adaptations to service delivery, e.g. PAPP-A results for women declining anomaly screening, midwife PGD for aspirin.

Staff preparedness for change

- Top level leadership – impetus, trust.
- Local named champions – impetus, awareness, training and support.
- Establish a plan and timetable for training.
- Flexible training: face to face, virtual, recordings, allocated time.
- Implementation toolkit – accessible and easy to navigate.
- Monthly Newsletter – hot topics, FAQs.

Technological issues

- Ensure URL not blocked by firewall.
- Icon/link to website on MIS and staff devices.
- Healthcare professional access to adequate devices.
- Internet access all areas.
- Clear pathways for support.

4. CONCLUSIONS

- This implementation evaluation is an ongoing process which informs development of Tommy's App and its implementation strategy.
- The App has the potential to make providing "the right care at the right time" easier, personalising risk-assessment and care according to best evidence.

6. REFERENCES

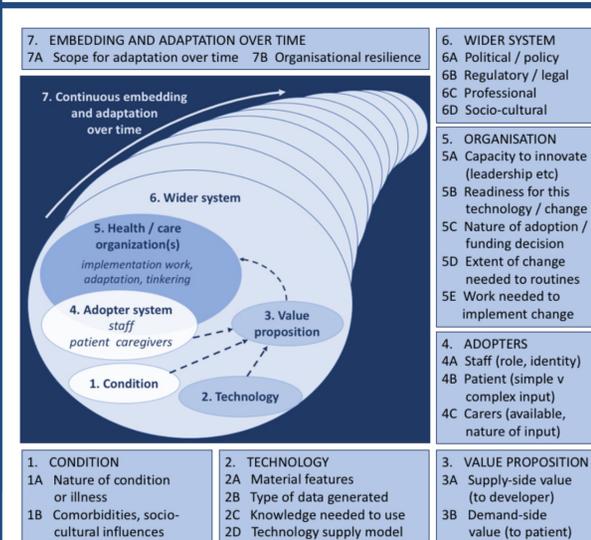


Figure 2: NASSS Framework [3].

1. Jardine *et al.*, "Adverse pregnancy outcomes attributable to socioeconomic and ethnic inequalities in England: a national cohort study." *The Lancet*. 2021 Nov 20;398(10314):1905-12.
2. Carter *et al.*, "The Tommy's Clinical Decision Tool, a device for reducing the clinical impact of placental dysfunction and preterm birth: protocol for a mixed-methods early implementation evaluation study." *BMC Pregnancy and Childbirth*. 2022. [in press]
3. Greenhalgh *et al.*, "Beyond adoption: a new framework for theorizing and evaluating nonadoption, abandonment, and challenges to the scale-up, spread, and sustainability of health and care technologies." *Journal of Medical Internet Research*. 2017 Nov 1;19(11):e8775.