We are writing to congratulate the authors of the recently published detailed evaluation of an app (Baby Buddy) designed to support parents during pregnancy and the early years (1). Building on the existing data on the limited effectiveness of mobile health applications in pregnancy and the postnatal period (2,3), this paper is a valuable addition to the current literature in the field. We note that no differences were found in the primary measure of parenting self-efficacy using the TOPSE tool or the secondary outcome of the Warwick Edinburgh Mental Wellbeing Scale (WEMWBS), and this was appropriately recorded in the abstract of the paper.

Interestingly, despite the issues with retention [only 114/296 (38.5%) of those assessed at 3 months had used the app], which the authors acknowledge, there was a difference noted in the post-hoc analysis of breastfeeding rates. On adjusted analysis (for IMD decile, education, technology use, use of pregnancy apps and baseline intention to breastfeed), the researchers found a significant increase in any breastfeeding at 1 month [aOR: 3.08 (95% CI: 1.49 to 6.35)] and in exclusive breastfeeding at 3 months [1.79 (95% CI: 1.02 to 3.16)].

Secondary to the short, medium and long-term benefits that increased breastfeeding confers on individual and population health (4), we believe that an intervention that increased breastfeeding 3-fold at 1 month and exclusivity 1.8-fold at 3 months deserves some consideration in the commentary of the results. This behavior change component of the Baby Buddy app has been considered in relation to the COM-B framework and the behavior change wheel (BCW) and aligns well (5,6). Video content related to breastfeeding focuses on developing capability through enhancing both skills and knowledge, drivers of motivation both automatic and reflective and physical and social opportunities to breastfeed. Further, the functionality of the app addresses the intervention functions of the BCW such as enablement, incentivization, education and modelling. This behavior change framework may contribute to the differences seen for this outcome compared with the primary outcome for this particular study.

We would therefore encourage future research into mobile health applications such as Baby Buddy, using such a theoretical framework, to consider their effect on breastfeeding as well as duration and exclusivity.

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Footnote

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Conflicts of Interest: All authors have completed the ICMJE uniform disclosure form (available at http://dx.doi.org/10.21037/mhealth-19-233). Dr. MB reports he acts as RCPCH advisor for Baby Buddy and have been involved in its development for at least 10 years. Ms. LM is conducting
collaborative research with the charity Best Beginnings. Dr. AG reports that LM and AG have assessed the quality of the baby buddy app and also mapped its content to the Behavior Change Wheel as part of LM PhD. The other authors have no other conflicts of interest to declare.

Ethical Statement: The authors are accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

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