Reviewer’s report

Title: Designing an implementation intervention with the Behaviour Change Wheel for health provider smoking cessation care for Australian Indigenous pregnant women

Version: 0 Date: 15 Aug 2017

Reviewer: Janet Long

Reviewer's report:

Dear Authors,

Thank you for the opportunity to review this manuscript. It describes the development of a program of interventions to address the high smoking rate of pregnant indigenous women using the Behaviour Change Wheel and the TDF. As the authors point out failure of HCPs to address how to cease smoking and support women contributes significantly to the gap between indigenous and non-indigenous health and life expectancy.

The paper is beautifully written to explain the process and results, and I really can't fault anything. The step by step process outlined by the Behaviour Change Wheel is excellent and the authors have followed the steps (making it easy for a reader to follow) and have demonstrated the BCW's logical structure and utility in this multifactorial context.

I can imagine some reviewers being sceptical about this paper and asking "where are the results of the interventions" (as happened to us recently) but I disagree with this stance. There is a huge amount of work that has gone into the development of the ICAN QUIT program. This work was well thought out and thorough and the reporting of it is logically set out. It is vitally important that papers outlining how to properly address failures to provide appropriate care linked directly to outcomes, be published. The art and science of developing interventions is very often underrated, with education sessions or posters being a default option even when the barriers are obviously in another domain. This paper adds to a few other well-structured papers that explain the process in easy to follow language, backed up at every step by psychosocial theory, qual and quant data and Cochrane meta-analyses. As such it adds to the literature in the field of implementation science. The follow up paper reporting the results of the planned RCT will be very interesting to read.

Best wishes in your future research

JL
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An article of importance in its field

**Quality of written English**
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Acceptable

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