Glyceryl trinitrate to reduce the need for manual removal of retained placenta following vaginal delivery: the GOT-IT RCT

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Declared competing interests of authors: Fiona C Denison has received funding from Dilafor AB (Solna, Sweden) outside the submitted work. Jane E Norman has received funding from Dilafor AB and GlaxoSmithKline plc (Middlesex, UK) outside the submitted work and declares membership of the National Institute for Health Research (NIHR) Health Technology Assessment (HTA) Maternal Newborn and Child Health Panel. Jane Norman was a member of the HTA and Efficacy and Mechanism Evaluation (EME) Editorial Board. John Norrie declares grants from the University of Aberdeen and the University of Edinburgh during the conduct of the study and membership of the following NIHR boards: Cardiopulmonary Resuscitation Decision-making Committee, HTA Commissioning Board, HTA Commissioning Sub-Board (Expression of Interest), HTA Funding Boards Policy Group, HTA General Board, HTA post-board funding teleconference, NIHR Clinical Trials Unit Standing Advisory Committee, NIHR HTA and EME Editorial Board and Pre-exposure Prophylaxis Impact Review Panel. Julia Lawton declares membership of the HTA General Board.
Plain English summary

The GOT-IT RCT
Health Technology Assessment 2019; Vol. 23: No. 70
DOI: 10.3310/hta23700

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A retained placenta is diagnosed when, following the birth of a baby, the placenta is not delivered. When this situation occurs, women are at risk of bleeding heavily. The only way to treat a retained placenta is for a trained doctor to remove it by an operation in theatre. This procedure can be painful and upsetting. Furthermore, the timing of the operation can interrupt mother–baby bonding immediately after giving birth.

The study tested if the use of glyceryl trinitrate spray, given as two puffs under the woman’s tongue following the diagnosis of retained placenta, may help the placenta to deliver without an operation. The study also tested if glyceryl trinitrate was safe, assessed what women thought about the treatment and compared the costs of glyceryl trinitrate with those of current operative management.

This study included 1107 women diagnosed with retained placenta following the birth of their baby. Half of the women were treated with glyceryl trinitrate spray and the other half were treated with a dummy spray, which looked identical but did not contain the active treatment. If the placenta delivered within 15 minutes of the study treatment being taken, this was considered a success. However, if the placenta did not deliver within 15 minutes and the woman had to have her placenta removed by an operation, then this was viewed as unsuccessful. Neither the woman nor the clinical staff knew if the treatment given was the glyceryl trinitrate spray or the dummy spray.

The results indicate that, although women were happy to be involved in the trial and the treatment was safe, the use of glyceryl trinitrate spray did not reduce the need for the placenta to be manually removed by an operation in theatre. Furthermore, glyceryl trinitrate spray was not cost-effective.
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This report

The research reported in this issue of the journal was funded by the HTA programme as project number 12/29/01. The contractual start date was in July 2014. The draft report began editorial review in May 2018 and was accepted for publication in December 2018. The authors have been wholly responsible for all data collection, analysis and interpretation, and for writing up their work. The HTA editors and publisher have tried to ensure the accuracy of the authors’ report and would like to thank the reviewers for their constructive comments on the draft document. However, they do not accept liability for damages or losses arising from material published in this report.

This report presents independent research funded by the National Institute for Health Research (NIHR). The views and opinions expressed by authors in this publication are those of the authors and do not necessarily reflect those of the NHS, the NIHR, NETSCC, the HTA programme or the Department of Health and Social Care. If there are verbatim quotations included in this publication the views and opinions expressed by the interviewees are those of the interviewees and do not necessarily reflect those of the authors, those of the NHS, the NIHR, NETSCC, the HTA programme or the Department of Health and Social Care.

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