

Scheme's success at stopping mums-to-be smoking

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Credit: Vera Kratochvil/public domain

Pregnant women are almost twice as likely to quit smoking if they are supported from their first midwife appointment - and then are more likely to have heavier, healthier babies.

Newcastle University researchers evaluated the "BabyClear" programme which follows the National Institute for Health and Care Excellence

(NICE) guidance around [smoking](#) in pregnancy by screening all pregnant women for smoking using [carbon monoxide](#) monitoring.

Any woman still smoking when she first saw a midwife, at around eight weeks into pregnancy, was given information about the risks to their unborn baby. She was then put in contact with agencies who could help her quit.

Publishing today in *Tobacco Control*, the research team report that in the study of 40,000 [mothers](#)-to-be, the number of women helped to stop smoking almost doubled.

Dr Ruth Bell, senior lecturer in the Institute of Health and Society at Newcastle University, who led the study, said: "This shows that if we help make it routine for midwives to ask about smoking and screen every mother-to-be for carbon monoxide, we can double the number of women who [quit smoking](#) in pregnancy and substantially increase the number of healthy babies."

The team found the women who did not smoke in pregnancy, went on to have babies that were more than half-a-pound heavier (260 grams or 0.57lb) at full term, than those who continued to smoke.

Even women who quit smoking during their pregnancy were shown to have heavier babies (by around 210 grams or 0.46lb) than those of mothers who smoked throughout pregnancy. This is an indicator of a healthier infant that is likely to need less medical help.

Effective

The large study in NHS maternity units across the north east of England, included 10, 594 women who were smokers. Every woman was offered carbon monoxide (CO) monitoring and anyone with high carbon

monoxide readings, indicating smoking, was routinely referred to Stop Smoking Services within 24 hours, where they received help to stop from a trained smoking cessation adviser.

Dr Bell said: "Training midwives particularly on how to start a conversation about smoking, along with providing clear routes for women to get support to help stop smoking, ensured that national guidance was followed. This package proved to be highly effective in helping mothers to stop smoking, equivalent to nearly 100 extra quitters per year in a maternity unit delivering 3,000 babies."

The study was funded by the NIHR School for Public Health Research (SPHR) and Fuse, the Centre for Translational Research in Public Health.

Findings

The study examined the records of 37,726 births of single babies across the North East, including 10,594 to mothers who smoked during pregnancy. The authors report that the referral rate more than doubled (2.5 times higher) across all the trusts in the first three months after the introduction of the new approach.

The introduction of the programmes was associated with a substantial increase in quitting during pregnancy, and quitting was associated with referral to [stop smoking](#) services. Further analysis of birthweight revealed that babies were significantly heavier if a mother quit smoking during pregnancy.

Professor Eugene Milne, a co-author of the study and Director of Public Health at Newcastle City Council, said: "It is hard to overstate the impact that being smoke free can have on babies, mothers and families.

"Reducing smoking reduces the risk of stillbirth, low birth weight, and of problems with health not only in childhood but into adult life and even old age. There is clear evidence that heavier babies have lower rates of heart disease in later life.

"This new study provides important evidence that giving the right care to help pregnant mothers quit smoking is an effective and important intervention, and provides the information and help that mothers want.

"We are working to ensure that all prospective mothers receive this standard of care and support in Newcastle and the North East."

Economic analysis revealed that the additional cost of the intervention per delivery was £31.

The work was possible as the North East has a regional approach to reducing smoking during pregnancy, embedding NICE guidance using the BabyClear approach developed by Improving Performance in Practice (iPiP). This was rolled out in the North East by Fresh, the North East's regional tobacco control programme, working with all of the North East's hospital foundation trusts and Stop Smoking Services.

Smoking at the time of delivery rates have fallen in the North East since 2009/10 when 22.2% of [women](#) smoked at the time they gave birth, down to 16% in 2016.

Reducing harm from tobacco

Ailsa Rutter, Director of Fresh, which supported the introduction of the approach across the region said: "These findings and the drastic decline in smoking in pregnancy in the North East by around a third since 2009 shows the vital role the NHS can play in reducing harm from tobacco. But it is vital this work continues.

"There is a lack of awareness around just how smoking harms unborn babies and midwives played an important role in communicating this. Women overwhelmingly supported this approach, even if some initially found the facts shocking.

"There has also been demand for this approach to be rolled out nationally by leads from the national Smoking in Pregnancy Challenge Group, a coalition working to reduce the harm caused by tobacco."

Professor Linda Bauld, Co-Chair of the Smoking in Pregnancy Challenge Group and Professor of Health Policy at the University of Stirling said: "The North East of England has taken a lead in implementing recommendations from NICE and the Smoking in Pregnancy Challenge group, and progress achieved is impressive.

"These results show the vital role health professionals can play when they raise the issue of smoking. These changes have undoubtedly saved lives and have implications that go beyond [pregnancy](#) for the role front line NHS professionals can play."

Dr Bell adds: "Our analysis shows that by improving the links between midwives and smoking cessation services we can really help mothers give their [babies](#) the best start in life."

More information: Ruth Bell et al, Evaluation of a complex healthcare intervention to increase smoking cessation in pregnant women: interrupted time series analysis with economic evaluation, *Tobacco Control* (2017). [DOI: 10.1136/tobaccocontrol-2016-053476](https://doi.org/10.1136/tobaccocontrol-2016-053476)

Provided by Newcastle University

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