Abortion: Risks and complications

The research studies described in this briefing examine the association between what is known as an ’exposure’ or ‘risk factor’ (eg induced abortion) and an outcome or health effect (eg premature birth). Even though the studies may show an association or link between the exposure variable and a health effect, the way that studies are designed mean that we cannot always be certain that the exposure definitely causes the health effect. Such studies can provide evidence of some relationship, but they may not always fully take account of other possible exposures that people encounter in day to day life, which may simultaneously influence the health effects. We therefore need to be cautious about stating that an exposure directly causes a health effect.

Mental health outcomes
There is no clear evidence of a mental health benefit from abortion compared to birth and some factors increase the risk of negative outcomes post abortion.

The most comprehensive review into the mental health outcomes of induced abortion, carried out in the UK in 2011, found that having an unwanted pregnancy is associated with an increased risk of mental health problems. However, the rates of mental health problems for women with an unwanted pregnancy were the same, whether they had an abortion or gave birth. Therefore, when a woman has an unwanted pregnancy, rates of mental health problems will be largely unaffected whether she has an abortion or goes on to give birth. In other words abortion made no difference to the outcome.

Women who have mental health problems before abortion are at greater risk of mental health problems after abortion. The same review concluded that the most reliable predictor of post-abortion mental health problems is having a history of mental health problems prior to the abortion. A range of other factors produced more mixed results, although there is some suggestion that stressful life events, pressure from a partner to have an abortion, a negative attitude towards abortions in general and a negative emotional reaction immediately following an abortion may all have a negative impact on mental health.

The results of this review were re-examined by Fergusson, who confirmed that there is no evidence that abortion reduces the mental health risks of unwanted pregnancy. He found that there were small to moderate increases in risks of some mental health problems post abortion.

A growing body of evidence suggests that women may be at an increased risk of mental health disorders (notably major depression, substance misuse and suicidality) following abortion, even with no previous history of problems. Researchers not associated with vested interest groups have published this growing scientific evidence. They include Fergusson in New Zealand and Pedersen in Norway.

Preterm births
There is strong evidence of a link between abortion and subsequent preterm birth.

There are more robust studies on the association between abortion and preterm delivery in later pregnancies than the current Royal College of Obstetricians and Gynaecologists (RCOG) guidance suggests.

The risk of a preterm birth in someone who has had a previous abortion is small but real. In 2013 a review of induced abortion and early preterm birth found ‘...a significant increase in the risk of preterm delivery in women with a history of previous induced abortion.’ Women who had one prior induced abortion were 45% more likely to have premature births by 32 weeks, 71% more likely to have premature births by 28 weeks, and more than twice as likely (117%) to have premature births by 26 weeks.

Another study in 2013 in Finland found a 28% higher risk of an extremely preterm birth. A review published in the American Journal of Obstetrics & Gynecology in 2010, found that terminations in the first and second trimesters are associated with a ‘very small but apparently real increase in the risk of subsequent spontaneous preterm birth’.
The link is supported by two European studies from 2005 and 2004 and a further two studies from 2009 by Swingle and Shah. Swingle et al. found a 64% increased risk of preterm birth at less than 32 weeks with just a single abortion. Shah et al. found an increased risk of preterm birth of 35% in patients with only one abortion. The risk increased as the number of abortions increased. There are now over 100 studies in the medical literature confirming this association.

Breast cancer risk

New evidence suggests that abortion may increase susceptibility to breast cancer.

The possible existence of a link between induced abortion and a subsequent risk of developing breast cancer has been dismissed by the RCOG but the evidence remains highly controversial. A meta-analysis of 36 studies on abortion published in 2014 by Huang et al. concluded that induced abortion is significantly associated with an increased risk of breast cancer – by as much as 44% after one induced abortion and even more as the number of abortions increases. This is consistent with the first systematic review of the link by Brind et al. in 1996. However, the findings of both Huang and Brind differ from those of another major meta-analysis, by Beral et al. in 2004. Beral’s analysis indicated that abortion does not increase the risk of breast cancer and this is one of the primary papers cited as evidence that there is no causal link.

Further research is needed to settle this issue but in the meantime women have a right to know that there is ongoing debate about it.

Short-term physical complications

There is a small but real risk of physical complications from abortion.

Government statistics report complications for 278 abortions out of 185,000 in England and Wales in 2012, with twice as many complications from medical abortions as surgical. Complications include haemorrhage, damage to the cervix, uterine perforation and/or sepsis but this only includes those reported up to the time of discharge from the place of termination. The RCOG reports complication rates of 1–2 per 1,000 abortions but warns that lack of standardisation in reporting hampers collection of accurate data. They also state that women are more likely to seek medical help for bleeding after medical abortion than after surgical abortion and to report heavier bleeding than they expected from a medical abortion.

References

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