

TOBACCO & INFERTILITY

Most people understand that smoking / tobacco chewing increases the risk for heart, vascular, and lung disease. Many do not realize that smoking / tobacco chewing can also lead to problems with fertility in both men and women. Erectile dysfunction and pregnancy complication rates are also increased with smoking.

Will smoking/tobacco affect my eggs or sperm?

Chemicals (such as nicotine, cyanide, and carbon monoxide) in cigarette smoke / tobacco speed up the loss rate of eggs. Unfortunately, once eggs die off, they cannot regenerate or be replaced. This means that menopause occurs 1 to 4 years earlier in women who smoke (compared with non-smokers).

Male smokers/tobacco chewers can suffer decreased sperm quality with lower counts (numbers of sperm) and motility (sperm's ability to move) and increased numbers of abnormally shaped sperm. Smoking / tobacco chewing might also decrease the sperm's ability to fertilize eggs.



How can smoking/tobacco impact my ability to conceive?

Women who smoke/chew tobacco do not conceive as efficiently as nonsmokers. Infertility rates in both male and female smokers, tobacco chewers are about twice the rate of infertility found in nonsmokers. The risk for fertility problems increases with the number of cigarettes smoked daily.

Even fertility treatments such as IVF may not be able to fully overcome smoking's effects on fertility. Female smokers need more ovary-stimulating medications during IVF and still have fewer eggs at retrieval time and have 30% lower pregnancy rates compared with IVF patients who do not smoke.

Because smoking / tobacco chewing damages the genetic material in eggs and sperm, miscarriage and offspring, birth defect rates are higher among patients who smoke. Smokeless tobacco also leads to increase miscarriage rates. Women who smoke are more likely to conceive a chromosomatiy unhealthy pregnancy (such as pregnancy affected by Down syndrome) than nonsmoking mothers. Ectopic pregnancies and preterm labor also occur more often among female smokers.

Can smoking/tobacco affect my children?

Men whose mothers smoked half a pack of cigarettes (or more) a day had lower sperm counts, Smoking during pregnancy also can lead to growth restriction of the baby before birth. Children born with lower-than expected birth weights are at higher risk for medical problems later in life (such as diabetes, obesity, and cardiovascular disease). Children whose parents smoke are at increased risk for sudden infant death syndrome (SIDS) and for developing asthma.

I don't smoke but my partner does. Could this secondhand smoke affect my fertility?

Women exposed to secondhand smoke can suffer all the above health risks.

Does smoking/tobacco chewing affects endometrial growth?

Yes, Nicotine in tobacco adversely affects the decidualization process. They also cause decrease in endometria proliferation. They are also related to aberrant regulation of angiogenic process, resulting in thin endometrium.

If I stop smoking/tobacco chewing, will my chances for conceiving and having a healthy pregnancy improve?

Yes. Quitting smoking/tobacco chewing can improve fertility though the decrease of the egg supply cannot be reversed. The rate of pregnancy complications due to smoking decreases the longer a person has not smoked.

Quitting smoking can be very, very difficult but studies show that the chance for success is much higher if you work with your health-care provider and/or a support group. Sometimes, temporary use of a nicotine replacement (such as nicotine gum or patch) and/or prescription medication called bupropion can improve quitting smoking rates, and you can use these while trying to conceive, if needed. Though it generally isn't advised to use these during pregnancy, you and your health-care provider might consider their use during pregnancy after weighing the risks and benefits.

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