



MotherToBaby

Medications & More During Pregnancy & Breastfeeding  
Ask The Experts

Fact Sheet

by the **Organization of Teratology Information Specialists (OTIS)**

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## Exercise and Pregnancy

In every pregnancy, a woman starts out with a 3-5% chance of having a baby with a birth defect. This is called her background risk. This sheet talks about whether exposure to exercise may increase the risk for birth defects above that background risk. This information should not take the place of medical care and advice from your health care provider.

### *Is exercise safe for all pregnant women?*

Most women are able to maintain an exercise program throughout pregnancy, although some activities may need to be changed.

You may not be able to exercise while pregnant if you: have experienced preterm labor, have ongoing vaginal bleeding, feel contractions, or have other pregnancy related complications.

If you have a history of any medical problems such as heart problems or high blood pressure, you should also check with your health care provider before starting or continuing an exercise program.

### *Does exercise harm the developing baby in any way?*

Currently, there is no evidence that exercise has harmful effects on the baby. It has not been shown to increase risk of miscarriage, birth defects, or premature labor. Studies show no relationship between exercise and fetal distress, type of delivery, or fetal heart rate changes.

One study found that moderate to high intensity exercise in the later stages of pregnancy can lead to smaller, leaner babies that are still within the “normal range”.

### *Will exercise be more difficult during pregnancy?*

Your body will go through many changes throughout pregnancy that may affect its response and tolerance to exercise.

Your body works harder to give enough oxygen to the baby as it develops, so you have less oxygen available for exercise. This may leave you feeling breathless and less energetic.

As the baby grows and your womb gets larger, your sense of balance shifts so that you may need to adjust your posture. Joints around your pelvis loosen to make room for the birth of the baby; so there's a greater chance of straining or spraining muscles.

Also, your blood volume and heart rate increase to allow nutrients and oxygen to be transported to the baby. This change in blood flow may make you feel lightheaded.

### *What are the benefits of exercising during pregnancy?*

Exercise can play an important role in health and wellbeing during pregnancy. It has been shown to allow faster weight loss after pregnancy, and improve mood and sleep patterns. Recent early data suggests that exercise may help prevent or treat gestational diabetes.

Exercise may also ease many of the common discomforts of pregnancy such as constipation, backache, fatigue, leg swelling, and varicose veins.

### *What are some guidelines for exercising safely during pregnancy?*

The following guidelines apply if your pregnancy is low risk and you have checked with your health care provider to make sure you can continue an exercise program.

- Regular exercise, at least 3 times a week if not daily, is preferable to more random activity.

- During the second and third trimesters, avoid exercise that involves lying flat on your back because this allows less blood flow to your womb.
- Avoid exercising to the point of exhaustion or breathlessness. This is a sign that your baby and your body are getting less oxygen.
- Be aware that loss of balance could be harmful.
- Avoid exercises that may cause trauma to the abdomen.
- Especially in the first trimester, drink plenty of fluids before and during exercise to avoid overheating.
- Include relaxation and stretching both before and after you exercise.
- Eat a healthy diet that includes plenty of fruits, vegetables, and complex carbohydrates. Exercise may require you to eat more calories.

### ***What types of exercise are best during pregnancy?***

Most pregnant women can continue their pre-pregnancy exercise routine, although you may need to modify some activities. Listen to your body, and stop when you feel too tired or if you experience dizziness, headaches, muscle weakness, nausea, chest pain, decreased fetal movement or contractions. Don't get discouraged: even mild to moderate exercise can help your fitness level and your mood.

It may be preferred for pregnant woman to continue activities they are most familiar with and most likely to continue long term.

In general, you can safely participate in a wide range of recreational activities. Non-weight bearing exercises such as stationary cycling, swimming, or water aerobics are easiest on your body throughout your entire pregnancy.

Contact sports such as ice hockey, soccer, and basketball could result in trauma to both you and your baby. Also, your risk of falling during activities such as gymnastics, horseback riding, and downhill skiing may be higher during pregnancy as a result of balance changes.

Because of decreased oxygen, scuba diving and exercising at altitudes above 6,000 feet may not be recommended.

### ***When can I begin to exercise after giving birth?***

Your body may still experience changes as a result of your pregnancy for at least 6 weeks after your baby is born. Listen to your body and start slowly. You can gradually start exercising again as soon as you feel able to. Walking is a good way to get back into exercising. Regular brisk walks will prepare you for returning to your normal exercise routine. Women who have had a cesarean delivery may need to delay their return to exercise. Physical activity after giving birth has been associated with less depression as long as the exercise is stress relieving and not stress causing.

### ***If I am training at an elite level, will pregnancy hinder my performance?***

Pregnancy used to signal the end of a woman's sporting career, but more female athletes are returning to compete at elite levels following the birth of a baby.

As an elite athlete, you will have to make psychological adjustments along with physical ones to modify your training program for safe participation in each stage of pregnancy. Accepting that pregnancy and birth will interrupt sporting goals will reduce feelings of frustration and resentment. Try to view pregnancy as positive, and be flexible and prepared to change training programs and expectations.

While there may be risk involved in physical activity for some pregnant women, most health care providers believe that the benefits of being active far outweigh the risks, even for those who wish to continue participation at an elite level. Your pre-pregnancy levels of fitness, as well your particular sport, must be taken into account when planning the intensity, duration, and frequency of exercise during pregnancy. Both you and your baby will respond to exercise on an individual basis. If you regularly consult with medical advisors, and comply with medical advice regarding your training program, it is unlikely that playing a sport will cause problems. It is however, advised that you not exercise at greater than 75% of your maximum heart rate.

Most studies report that over half of elite athletes use supplementation to enhance performance. Few studies have been done to demonstrate the effects or safety of various supplements during pregnancy. Be sure to consult a sports nutritionist as well as your physician if you are taking any sort of supplementation.

***Does exercise affect breastfeeding?***

Exercise has not been found to affect breastfeeding. In general, you will still produce the same amount of milk whether you exercise or not. However, it is extremely important to drink a lot of water when breastfeeding, especially if you are exercising. Be sure to discuss all your choices for breastfeeding with your health care provider.

**References Available By Request**

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