Of the predicted nearly 2 million adults with congenital heart disease (CHD) in the United States, more than half are women, and as one of them, you need to be able to plan if and when to have children.

The risk of pregnancy for women with CHD ranges widely. For some women, their risk is no different from that of the general population. For others it carries a prohibitive risk of death for the woman and/or the baby. For these women, birth control is more than just a method to conveniently space babies. It may prevent a life-threatening pregnancy.

This handout discusses the available methods of birth control (also called contraception) available in the United States and describes which methods may be suitable for women with different types of CHD. This is not a definitive guide. Each woman has her own risks. You should ask your adult congenital heart disease (ACHD) doctor which method is best for you.

Who can advise me about contraception?
Finding a doctor who knows about both heart defects and birth control is a problem for many women with CHD. As a result, women with CHD may be denied birth control options, leaving them with a greater chance of a high-risk pregnancy. They also may be prescribed a birth control method that carries a risk to their heart condition. Thus, all women with CHD should have access to an ACHD specialist who is also an expert in contraception. One place where women with CHD can be assured to receive expert advice about birth control methods is an ACHA ACHD Accredited Center. One of the pieces of criteria for reproductive services at an accredited centers states, “Policy/plan for discussion with patients of appropriate birth control methods and sexual function as it relates to CHD.” If an ACHD accredited center is not available, a board certified ACHD cardiologist would be able to provide information and/or make an appropriate referral.

What do I need from my contraceptive?
Every woman with CHD needs to speak to an ACHD cardiologist who knows the latest information on birth control, pregnancy, and CHD. Advice should be specific to the individual. Risks can vary greatly even among women with the same diagnosis. This is why personal advice is so important. For every method of contraception, two factors must be considered:

- How effective is it? (i.e., How well does it work?)
- How safe is it for my heart?

Many women also use hormonal contraceptive options to help regulate their menstrual cycles, to reduce menstrual blood loss, or to treat intrusive menstrual disorders such as PMS, endometriosis, polycystic ovary syndrome, etc.

What methods are available?
There are four main types of birth control methods available:
1. Barrier methods (i.e., condom, diaphragm)
2. Hormonal methods, including:
   - Combined oral contraceptive pill (estrogen and progestin)
   - Combined hormonal vaginal ring (NuvaRing)
   - Progestin-only options:
     - Pills (norethindrone): Micronor, Nor QD, and generics
     - Emergency contraception: Plan B One-Step (levonorgestrel)
   - Long-acting contraceptives, such as:
     - Injection: Depo-Provera lasts three months
     - Implant: Nexplanon lasts three years
3. Intrauterine devices
   - Traditional copper IUD (ParaGard): Lasts for 10 years
   - Progestin-releasing IUD: Mirena lasts up to seven years; Skyla lasts three years; Kyleena is smaller in size but similar to Skyla and lasts for five years; Liletta lasts for six years
4. Sterilization (surgical)

Can I use a condom or diaphragm by itself?
These are safe for all users. Condoms have the added advantage of preventing STDs (sexually transmitted diseases). The effectiveness of these “operator-dependent” methods depends on consistent use, so they may not be a good choice if you are at high cardiac risk from an unplanned pregnancy.

Can I take birth control that contains estrogen?
The combined oral contraceptive pill is one of the most popular methods of birth control. It is reliable and causes few side effects. It can also make your period more regular. However, the estrogen in the pill increases the risk of blood clots (thrombosis). Women whose heart condition or general health puts them at risk of blood clots should not use it. The vaginal ring (NuvaRing) is self-inserted and left in place for three weeks. It provides combined hormonal contraceptive benefit. Risks are similar to combined oral contraceptive pills.

The risks of the estrogen-containing birth control will depend on your heart condition. Estrogen should be avoided by women with the following:
- History of blood clots (thrombosis) or a known blood clot disorder
- Poor heart function
Can I use an injectable or implantable method?
Depo-Provera is a highly effective injectable method of contraception. It must be given consistently every three months. It is safe for all women with CHD. The main side effect is menstrual irregularities and spotting, as well as weight gain. Menstrual bleeding may stop altogether after the first few months of use. It is important to know that fertility returns to normal rapidly if you stop taking it. You can get pregnant even before your period returns.

Nexplanon is an extremely effective implantable contraceptive method. Safe for all women with CHD, it is a small plastic rod inserted under the skin of the upper arm. Side-effects include headache, acne, and weight gain. It lasts for three years.

Can I use an IUD?
A copper intrauterine device, or IUD (ParaGard), and a progestin-releasing IUD (Mirena or Skyla) are very effective and safe forms of birth control. The copper IUD carries a higher risk of increased uterine bleeding and infection. If you have an active STD, abnormal Pap smear, or pelvic infection, you should not use either of these. There is also pain when the IUD is put in, particularly in women who have not previously given birth. Some women feel faint during this procedure. Before having the IUD put in, if you have complex CHD (i.e. Fontan, pulmonary hypertension) you should ask your gynecologist to talk to your ACHD cardiologist. This is to see if there are precautions that should be taken to make the insertion free of complications.

Mirena and Skyla IUDs release progestin, which makes the uterine lining less susceptible to pregnancy. Progestin can also slow and eventually stop menstrual bleeding. Skyla was FDA-approved in 2013. It is slightly smaller in size than the Mirena. It is more comfortable during insertion in women who have a smaller cervix or uterine cavity. Skyla contains a smaller amount of progestin—it is only effective for three years. Mirena is effective for five years. IUDs should be put in by a gynecologist who is skilled with this procedure.

What about sterilization?
If you have decided to never have a baby, this is an option. Surgical sterilization (tubal ligation or tubes tied) is done under general anesthetic. A telescope is put into a small incision near the navel (laparoscope). This carries a risk if you have severe CHD. Long-term contraception methods such as implantable progestin or an IUD should be explored first.

What about sterilization for my partner?
This is 100% safe for you, but only if you have no other sexual partners. Like all sterilization, it is not 100% effective. You and your partner also need to consider the difficult issue of how he might feel in the future if something happened to you.

And finally . . .
There are many birth control methods available for women with CHD. This means that however complicated your heart is, there is a method that is safe and effective for you. If your doctors cannot advise you or refer you to someone who can, please contact the Adult Congenital Heart Association.