When your baby is born with genitals that look different...

The first days
When your baby is born with genitals that look different and doctors are looking into the causes, it might feel like you are the only parents this has ever happened to. That is not the case.

Worldwide, this occurs in approximately 1 in 5,500 births.

The following information has been put together by parents and specialists to guide you through the first days and weeks.

When your baby is born with genitals that look different…

we need to look at the bigger picture

The development of your baby in the womb is likely to have been affected by one of many conditions that together are called Disorders — or Differences — of Sex Development (DSD).

Sex development is a complex process, and the sex of a baby is not determined by one thing.

There’s a much bigger picture, and many things together influence the sex of a baby, such as:

- how the genitals look on the outside
- how the baby’s reproductive organs developed on the inside
- hormones and how your baby’s body responds to them
- genetic information

Most of the time, these things come together in such a way that the sex of a baby is not in question.

However, when we have questions about the child’s sex, it is important to look at all these aspects of sex development.

By working together with health care professionals and by talking with other families, parents can get the information they need to understand how their baby has developed and how to raise a happy, healthy child.

Why might DSD happen?

Sex development is a complex process, and there are many different variations that can happen on the way. A good way to think about this is to imagine how babies in the womb follow different paths to develop.

Some of the most common reasons for a DSD are hormone imbalances, congenital adrenal hyperplasia (CAH), or variations in the baby’s chromosomes.

Understanding which condition (or ‘diagnosis’) your baby has can be important when deciding if your baby is best brought up as a girl or a boy (gender of rearing) and for their long-term care and wellbeing.
What happens next?
Diagnosis requires a team, takes time and involves various steps and tests

The best care for children with DSD involves a health care team which would ideally include specialists from various disciplines. These may include specialists in endocrinology (hormones) and urology/gynecology (kidneys, bladder, genitals).

Other team members may include nurses, social workers, geneticists, neonatologists, and people who work in the laboratories. These ‘multi-disciplinary’ teams are based in some larger hospitals.

When a baby with DSD is born, the medical/midwifery team in the local hospital are not usually experts in determining which condition your baby has. The local team will likely focus on safely caring for your baby, and arranging for some initial tests be done (see the section entitled What Tests Are Usually Done?). More specialist tests are usually arranged by the multi-disciplinary team and often involve going to the hospital where they are based.

You, as the parents, play a key role in this whole process.

Once all necessary results are available, the health care team will discuss these, and the ongoing plan, with you.

Sometimes the whole process, including making a decision about gender of rearing, takes a few days. Sometimes it can take longer.

Try not to focus your energy too much on how to fill out the birth registration forms. In British Columbia (BC), you have 30 days to register your baby’s birth, after which time there is a modest fee. This will allow you time to get to know your baby and think of names. Birth registration requirements may vary in other provinces or countries. If you live outside of BC, consult with your health care team for local registration requirements.

No one is expecting families to take in all the information at once. Spending time at this stage asking questions and for information to be repeated is important. Just as important — for both parents — is being with your baby. You need time to recover from the birth, establish feeding, learn to bathe a newborn, and most importantly try to get some sleep.
A social worker helps ordinary families in extraordinary circumstances

A social worker is a key member of the team. The social worker and endocrine nurse can be very helpful in going over the information you have been told. They can help provide some perspective when various tests and medical discussions seem overwhelming.

They will also give you support — both in the short and the long term — in dealing with what can be tricky or stressful situations, such as how to manage news about your baby’s birth, how to discuss your child’s condition with other people and, importantly, in the future how you might talk to your child about their condition.

Arriving at a decision regarding gender of rearing of your child and discussing his/her long-term care plans are not just done on the basis of biological and physical aspects. They are also based on your baby’s psychological wellbeing, what we know about gender development and the feelings of other people with similar conditions.

What tests are usually done?

Your baby’s doctors will examine your baby and ask about your family’s medical history.

Doctors will check your baby’s chromosome pattern with a blood test. The chromosome pattern (also known as ‘karyotype’) helps doctors understand the background to your child’s development and helps them consider in which direction to take the further tests. The initial karyotype result usually takes up to one week to come back.

Many babies are kept in hospital for the first few days so that salt and sugar levels in the blood can be monitored. Doctors will also measure hormone levels in the blood, and possibly in the urine, to see how the adrenal glands (glands above the kidneys) and gonads are working.

Ultrasound tests and scans can sometimes show the internal sex organs (such as the womb/uterus). These are best performed in specialist centres as they can sometimes be difficult to interpret.

Sometimes, doctors might look at the bladder and opening of the vagina with a special ‘telescope’ (cystoscope) and very rarely they might look at the gonads with a laparoscope and examine tissue samples (biopsies) from them.
Hormones:
hormones are chemical messengers that tell certain cells in different parts of your body what to do.

Hormones can influence many things, including when you feel hungry or full, when and how thirsty you are, how strong your bones are, whether you are tall or petite and a whole lot more.

Sex hormones, such as estrogen and testosterone, are chemicals made by the body that influence the development of the genitals.

Androgens: a general name for hormones that promote typically male development. Testosterone is an androgen. Both men and women have androgens, but in different amounts.

Endocrine/endocrinology/endocrinologist: related to hormones; a doctor who specializes in hormones and how they affect changes in our bodies.
DSD Terminology for beginners

Chromosomes: each person usually has 46 chromosomes, including two sex chromosomes. A person’s chromosome pattern can also be called their ‘karyotype’ (e.g. 46,XY or 46,XX).

We usually get one X from our mothers, and an X or Y from our fathers.

There are various combinations of sex chromosomes:

Genes/ Genetic testing: chromosomes are made up of many segments called genes, which carry genetic codes (DNA) that influence many things, such as the colour of the eyes. Genes can influence sex development, and changes in specific genes can sometimes be the reason for a DSD.

Genitals: genitals are the external sex organs. This includes: the penis, the scrotum (the bag of skin containing the testes/testicles), the vulva, (all of the external female sex organs), including the clitoris (a female sexual organ that is small, sensitive, and located on the outside of the body above the opening of the vagina) and the labia (any of the folds of skin bordering the vulva and vaginal opening).

All genitals develop from the same basic structures.

Genitals can develop along a spectrum, depending on the amount of androgens they are exposed to (see diagram, right).

Gonads: a general name for testes and ovaries. In DSD these can sometimes be streak (underdeveloped) gonads or, rarely, ovotestes (a mixture of ovarian and testicular tissue).

Ovaries: organ where eggs and sex hormones are typically produced

Testes: organ where sperm and sex hormones are typically produced

Urethra: the pathway from the bladder used to expel liquids (urine) usually opens at the tip of the penis in boys or between the clitoris and vagina in girls.

Uterus: the uterus is the space inside the abdomen in which a baby grows (also called: womb). Just like the genitals, the development of the uterus is controlled by hormones.

Urologist/ Urology: a doctor who specializes in the kidneys, bladder & genitals.

Hypospadias: a fairly common condition (1 in every 300 baby boys) where the urethra does not open at the tip of the penis. There are different degrees of hypospadias.
Talking about your baby in the first days or weeks...

...with friends and family

One of the first things family and friends ask is “boy or girl?” It can be very difficult to deal with this when there is no clear answer, when you have never heard about DSD, and when you are tired after the birth of your baby.

Each family deals with these questions very differently. What you choose to say and who you choose to tell are personal decisions, and there is no right or wrong way to disclose information.

Some parents will say “We can’t tell you yet whether our baby is a boy or a girl, because our baby has been born with a hormone condition that affects what the private parts look like. Doctors are doing further checks and are making sure our baby is healthy and well. We will get in touch soon with more news.”

Other parents will inform family and friends in a general way and not provide any details, for instance, “the doctors have some questions about our baby’s physical development. It's complicated to talk about, and we will be in touch soon.” You may be concerned that people might ask other questions, but just be really firm: “I can't explain it myself at this time” and move on: “Let's talk about something else, how are you doing?” If afterwards anyone whom you don’t want to share information with asks: “What was the problem? We were so worried”, you can say “We just needed to make sure everything was ok, all is well.”

Some parents will ask a friend or a member of their family to take phone calls. You can agree on a simple explanation that everyone sticks to and which can be as simple as “mother and baby are doing fine — a few tests need to be done, and an update will follow.” Feel free to turn off your phone.

Other parents will want to wait for the diagnosis before sharing information with families and friends. If you are not ready to talk about it you can say “We have a lovely, beautiful baby. It was a really difficult birth and I/we just need a little family time. Please don’t be hurt if we seem to drop off the grid for a while.” It is ok to keep things private until you are comfortable talking about your baby.

...with people who are supporting you and your baby in the hospital and at home

DSDs are a large group of rare conditions. For some people involved in your post-natal care and in the care of your baby, it will be the first time they come across these conditions.

They might be unfamiliar with DSDs and avoid talking about your baby; or they might be talking about your boy/girl instead of your baby. Try to keep in mind that they are trying to care for you and your family the best they can.

Sometimes caregivers might have had some experience with another family, and want to share this with you. However, there are so many different reasons why a baby might have a DSD, and their experience may not always be helpful and can sometimes add to confusion. Looking for information on the internet before having initial details on the reasons for your baby’s DSD can also add to confusion and sometimes misunderstanding. The best thing to do in the case of conflicting information is to remember that this is rare enough that medical information about what happened to another family may not apply to you. At the same time, family’s worries and hopes for the future are often very similar and shared.
What do we call our baby in the meantime?

Until doctors are able to help determine how to bring up your baby, you could use a simple endearing name, like ‘sweetheart’, ‘honey’, ‘munchkin’, or ‘darling’... A couple whose baby was born on Halloween called their baby ‘pumpkin’, until a few days later ‘pumpkin’ became ‘Max’.

It is also common for parents to say that they just have not found the right name, and that they are waiting to see what name best fits their baby.

If your faith requires your baby to be named within the first few days, and when this is not possible, talk to your religious leader about the best way forward.

What do we tell our other children?

If you have older children, they will likely ask whether they have a brother or a sister.

Depending on their age, you can tell them what is happening or — as they might be worried why their new baby needs various tests — try to reassure them without giving too much information. Remember that children accept things much easier than adults, and always try to use simple and honest language.

Make certain there are foundations of truth in what you say, so that you can later build on what you tell your child. For example, you could say “The baby is so new, the doctors can't tell us yet.” Or you could say “The baby first needs to be examined by doctors. So we are going to wait for a few days to name the baby. When we're ready, we'd really like you to help choose the nicest name.”

“But we’ve already told everybody”

In some rare cases, for example if baby’s genitals look fairly typically male or female, doctors and midwives will say at the birth of a baby “you have a boy” or “you have a girl”. However, a few hours later — sometimes after you have texted family and friends — doctors pick up on a variation of genital development and advise you that the sex of your baby is uncertain. In some cases, after all the necessary investigations, you may decide to raise your child in the other sex of what has been announced.

One effective way to approach this is first to learn about — and learn to talk about — the diagnosis and the causes of it. Practice explaining this with your partner. This is also where a social worker and specialist nurses can really be of great help. Next you can provide friends and relatives (by phone, or by email) with a clear explanation as to why you and your doctors think the baby will grow up to feel more comfortable in a different sex.

Remember: if you are comfortable and confident about this, then your family and friends will be too. Stand tall!

Another way to handle this is to simply let friends and family know that there has been a mistake. You can say “Her/his bits were small/tucked away/swollen and we/they got it wrong”.

"Welcome Baby"
In other cases, an antenatal scan or tests might have suggested you are having a boy or a girl, and you have shared this information with friends before the birth. Then, when your baby is born, sex is not so clear. If these are your circumstances, there is no urgent reason to confirm or revisit this while you are getting more information. Use some of the strategies above and concentrate on questions regarding health and feeding.

Another idea you might use if you have decided to raise your child a different sex from what you have announced, and you don’t want to share much information with friends and possibly relatives, is just to say that the ultrasound was mistaken and you have had a lovely surprise. “These things happen!”

What happens in the next weeks?

Having a newborn baby is a joyous time, but when there is some concern about the baby’s health, joy can share a space with worry.

Privacy is not the same thing as secrecy!
One of the main challenges of DSD conditions is that many parents feel they must look after their child’s privacy until he/she is ready to decide what others may know. But this can leave parents feeling isolated.

Having a friend to confide in can give you more time to get familiar with and be more confident about discussing your baby’s wellbeing. You can also ask your team of doctors and nurses whether they host family days, or to put you in touch with other local families who have gone through similar experiences; ask about family groups (such as a support group) or online forums.

All questions are good questions!
Very few parents are able to take in all of the complexities around DSD in one go. And sometimes we worry about asking ‘a stupid question’. There is no such thing as a stupid question, and you should feel comfortable to ask your medical team to repeat information. Use drawings and notes to help you remember. If things are not clear, ask your team to go over it all again.

After meeting your healthcare team, it is helpful to establish who your point of contact is, and how you can approach them when you have an urgent question (for example, by email or telephone). This could be a specialist nurse, or another member of the team.

When you are at home with your baby, keep a notebook to jot down any questions that might come to you.
## Timeline of care in the first days and weeks?

<table>
<thead>
<tr>
<th>What the health team does</th>
<th>What you can do</th>
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</thead>
<tbody>
<tr>
<td><strong>Step 1</strong></td>
<td>The health team will look after the immediate health of your baby and make sure you recover well from giving birth.</td>
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<tr>
<td></td>
<td>Recover from birth and try to get some sleep!</td>
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<td></td>
<td>Concentrate on feeding: it's normal to feel worried and anxious after having a baby, and concentrating on something practical and important like feeding your little one is a good way to focus on and spend time with your baby.</td>
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<td></td>
<td>Like with any newborn, keep your beautiful new baby close if you can. Bonding is the first step in raising confident and happy children. Bonding does not just happen at birth, or just in the first few weeks — so try not to worry if you don’t have a chance to focus on this straightaway.</td>
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<tr>
<td></td>
<td>Children need bonding at any age: hold them close, play with them, listen to them, and make time for them. That way you make them feel that you really love them and always will.</td>
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<tr>
<td><strong>Step 2</strong></td>
<td>The health team will look for the reasons behind your baby’s DSD. They will discuss their findings with you and advise you on bringing up your baby as a boy or a girl.</td>
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<td></td>
<td>In this world of text, email and Facebook and with everyone wanting to know whether you gave birth to a boy or a girl… you may feel pressure to let people know about the sex of your baby.</td>
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<td></td>
<td>If people don’t hear from you right away, they will probably assume that you are tired or have just forgotten to say.</td>
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<td></td>
<td>Not posting anything on Facebook is a safe option.</td>
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<td></td>
<td>Some parents talk openly about the development of their baby to family and friends, others don’t — there is no right or wrong.</td>
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<tr>
<td><strong>Step 3</strong></td>
<td>The health team will help you in looking after your child’s overall health and wellbeing, and support your family in the long term.</td>
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<td></td>
<td>Enjoy your lovely baby and do all the things new families do.</td>
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<td></td>
<td>Take time to recover from the birth and from the stress of the diagnostic process.</td>
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<td></td>
<td>Take time to inform yourself about DSD and the specific type of DSD your child is diagnosed with (if a diagnosis has been reached / if diagnosis is possible). Don’t hesitate to ask the social worker, nurse, or other doctors to explain again what the diagnosis is, and what this means for your child — and remember that all questions are good questions. Always!</td>
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<td></td>
<td>If you feel like talking with other families, check with your doctors if they host family days, or if they can connect you with a family or family group (e.g. support group or on-line forum). Social workers or psychologists who have expertise in DSDs can help you understand and talk about the diagnosis and help you think about when and how to share information with your child.</td>
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### Moving forward…
#### …What happens the next few months? And then?

What happens next depends to a large part on your baby as an individual.

If your baby is diagnosed with CAH, your healthcare team will help and support you as you learn about timing and dosages of medication.

Once you and your baby are at home, further questions about how best to support your baby, how to talk with your child about his/her condition, how and when your child may be involved in care decision in the future, etc. will arise.

It can be helpful to have a detailed review meeting after a year or so with some members of your medical team to go over events after the birth, to talk about the diagnosis and what it means, and to prepare a long-term care plan.

Children with a DSD grow up to be happy individuals. Just like all kids, they need love and support from their parents and the thoughtful care of a healthcare team that places the long-term wellbeing of your child at the heart of all they do.
We asked other parents to share with you what they would have liked to know in those first days and weeks after their baby was born...

It’s going to be ok. DSDs are actually quite common and there is more and more information and support available, for the parents and the child. Don’t rush into decisions. Very few issues having to do with a DSD need to be handled immediately. Take time to bond and get to know your baby. The rest can be dealt with later. Find someone you trust to talk to face-to-face. There is a lot of online information, but having one person for face-to-face conversations is very helpful.

You are not alone: whenever you are ready there are plenty of families to connect with via groups and online forums. Honestly, it is good to talk with other families about what happened, about worries you might have, and about your parenting successes. Our babies, toddlers, pre-schoolers, pre-teens, teens... are not extra-ordinary — they are just as much hard work as all the other kids!

The first days, maybe weeks, when all information seems behind closed doors, are the worst; then you start to understand, and it all gets better. Now, we have decided to have another baby.

If I were in the same situation again, I’d say to the doctors “Stop, I have no clue what you are talking about. Explain it again from the very beginning.”

Bonding was difficult, at first. But from having had other babies, and from speaking about this afterwards with other families, I understood that this is common outside of DSD, too...part of post-natal hormones and surprise (about my baby who was different than expected) and worry and tiredness. I wish I would have known that, how common it is to feel like that — and that it is ok to feel like that.

I suppose I could not imagine raising a kid with genitals that look different. To be honest, I was intimidated by what other people would think. I ended up having a confidential chat with the nursery and said “This is how my baby is born, and he is all checked out and healthy. Any questions?”

I have another son, who does not have a DSD. He insists on wearing his Ben Ten hoodie towel to change into and out of his swimming trunks. “Why do you do this?” I asked him. “Because penises and bums are private” he tells me.

What makes the difference is how we choose to live with the things that happen to us. That is what I learned in those first weeks, and that is what I want to teach my daughter.
Further resources


http://www.dsdfamilies.org: Resource and support for families of children, teens and young adults who have a DSD
http://heainfo.org: Hypospadias & Epispadias Association
http://aisdsd.org: AIS – DSD Support Group


Notes

This brochure is endorsed by:

Supported by

This brochure was produced by Ellie (dsdfamilies.org) and John Achermann (UCL/GOSH, London) with lots of input and advice from parents, various members of multidisciplinary healthcare teams and family groups: Amber, Siobhan, Charlie, Elizabeth, Laurie, Joanne, Lizzy, Arlene, Alexander, Jenn, and Angela (parents whose children have a DSD); Polly Carmichael, Julie Alderson, Caroline Sanders, Sarah Creighton, Martine Cools, Santiago Vallasciani, Nils Krone, Katy Auckland and Sten Drop (specialists in DSD); Sue (‘Living with CAH’), John (Hypospadias Forum) and Margaret (AISSG UK)

This version was edited for a Canadian audience by Susan Murphy RN, Mabel Tan RN, Rebecca Brooke RN, and the Endocrine Staff at BC Children’s Hospital. February 2017

This information has been produced to guide you through the first days. All families’ and children’s circumstances are individual, and your doctors and healthcare professionals can provide you with exact information for your circumstances.

If you would like to take part in developing this brochure further, and/or adapt it to local needs, please contact John Achermann at UCL or Ellie at info@dsdfamilies.org

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