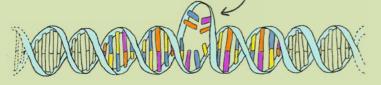
## Information about **Birt-Hogg-Dubé** syndrome (BHD)

Birt-Hogg-Dubé (BHD) is a rare hereditary syndrome. A syndrome is a combination of conditions that arise from one cause. BHD is caused by a **DNA abnormality** in the **FLCN gene**.



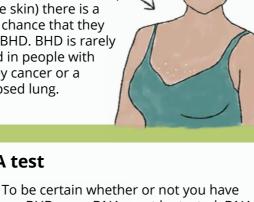
People with BHD often have non-cancerous skin lesions (fibrofolliculomas) and cysts in the lungs (air-filled sacs). In addition, there is an increased risk of a **collapsed lung** (pneumothorax) and **kidney** cancer.

#### How common is BHD?

We do not know exactly how common BHD is. In people with multiple fibrofolliculomas (bumps on the skin) there is a good chance that they have BHD. BHD is rarely found in people with kidney cancer or a collapsed lung.

### **DNA test**





BHD, your DNA must be tested. DNA testing is done with a sample of 1. BURNING your blood. Blood contains DNA, which is examined in a laboratory. HILI MAN UNANIMO IN 2 -

#### What complaints and symptoms might you experience?

# symptoms

Most people with BHD have skin symptoms. These are usually fibrofolliculomas: white bumps on the face, neck and upper torso.

Skin

Fibrofolliculomas are non-cancerous. Sometimes they are treated for cosmetic reasons.

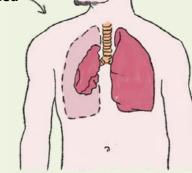


#### Pulmonary symptoms Most people with BHD have multiple lung cysts. Lung cysts are air-filled sacs in the lungs. These cysts usually do not cause any

About 1 in 3 people with BHD will develop a collapsed

complaints.

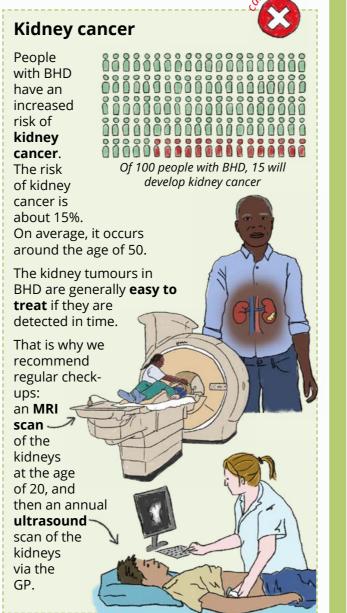
lung.



This means that one lung collapses. This can lead to **shortness of breath**.

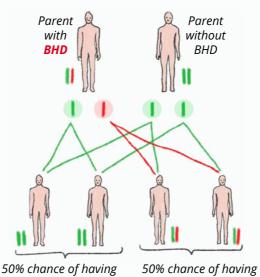
If you have BHD, but have never had a collapsed lung, it is not necessary to investigate whether you have lung cysts. We cannot prevent a collapsed lung.

If you have BHD and you do have a collapsed lung, we can try to prevent you from developing a collapsed lung again when treating the collapsed lung.



#### How is BHD inherited?

BHD is inherited in an **autosomal dominant** manner. Children of a parent with BHD each have a 50% chance (1 in 2) of also having BHD. This applies to both sons and daughters.



a child without BHD a child with **BHD** 

We advise you not



a collapsed lung. If you want to **dive**, ask a diving doctor or pulmonologist for advice. Diving is probably not wise for people with lung cysts.



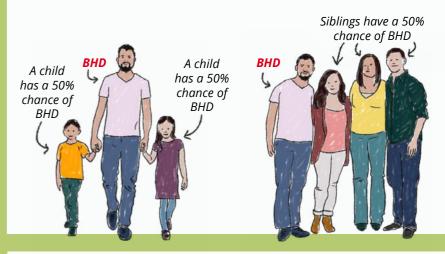
If you **fly** often (for example for your job), discuss this with a pulmonologist.



If you need general anaesthesia, tell your doctor that you have BHD as the risk of a collapsed lung is higher.



Parents, children and siblings of people with BHD have a 50% **chance** of also having this predisposition. For genetic advice and a DNA test, you can ask your GP to refer you to a clinical geneticist. DNA testing can be performed from (young) adulthood onwards.



#### What are the options if you want to have children?

More information about hereditary conditions when planning a family can be found at www.erfelijkheid.nl/kinderwens/ wat-als-je-een-erfelijke-ziekte-kunt-doorgeven.

For tailor-made information, you can make an appointment with a clinical geneticist.

### Psychosocial consequences

People who discover that they have a hereditary condition can find this a **shock**. Social workers or psychologists also work at clinical genetics outpatient clinics. They can help you with questions, doubts and problems.

It is often assumed that having a hereditary condition has consequences for taking out **insurance** policies. This is rarely the case. More information about this can be found at www. erfelijkheid.nl/ziektes-en-dan/verzekeringen-en-erfelijke-ziektes. You can also discuss this with your clinical geneticist.

## More information

www.kanker.nl (Dutch)

#### What does this mean for family members?



www.erfelijkheid.nl (Dutch) www.bhdsyndrome.org (English)



# Amsterdam UMC

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