

Information about Hereditary Leiomyomatosis and Renal Cell Carcinoma (HLRCC)

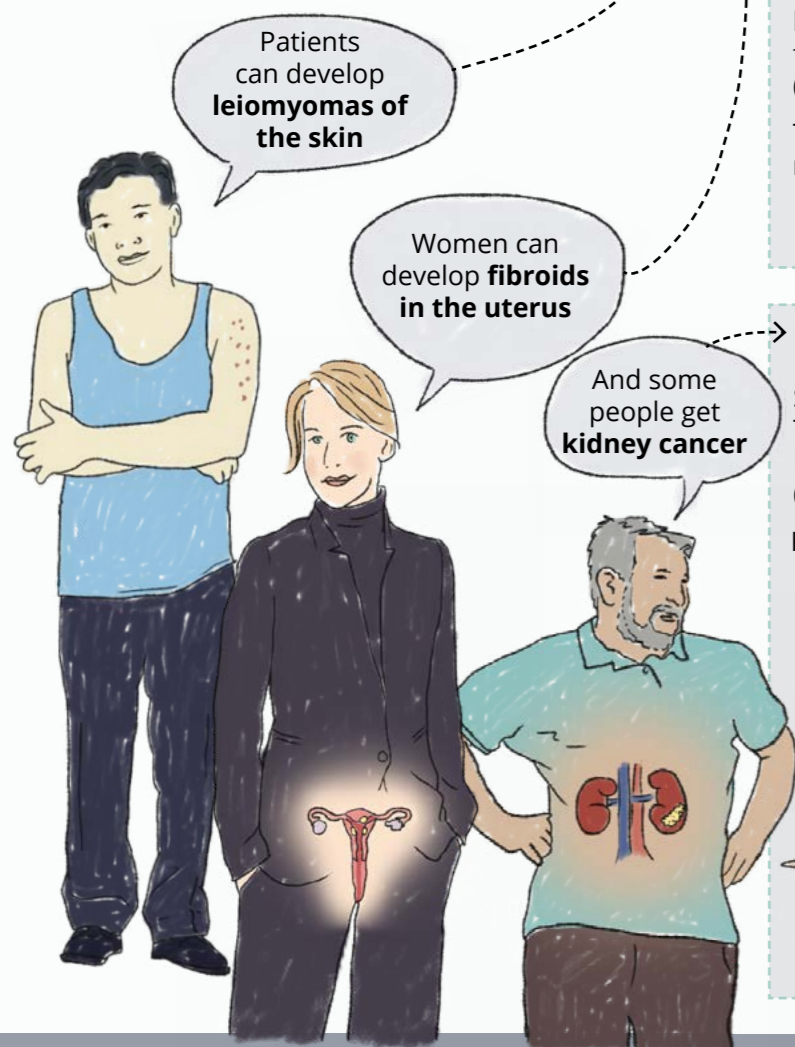
HLRCC is a **rare hereditary syndrome**. A syndrome is a combination of conditions that arise from one cause. HLRCC is caused by a **DNA abnormality** in the FH gene.



In the Netherlands we know of about **100 families** that have HLRCC.

What complaints and symptoms might you experience?

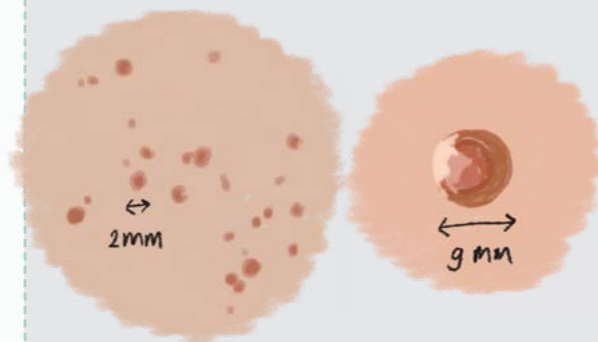
HLRCC can manifest in different ways.



Leiomyomas of the skin

Our skin contains small muscle cells that raise the hairs when someone gets goosebumps. Leiomyomas are **non-cancerous tumours** in these muscle cells.

The leiomyomas can **differ in size**.



Leiomyomas occur generally between the ages of 20 and 40. The leiomyomas are skin-coloured or red **bumps**, usually on the arms, legs or torso. Sometimes there are a few, sometimes more than 100. They can be **painful** when touched or exposed to cold.

A doctor can diagnose them by their appearance and by examining a sample of tissue (biopsy).

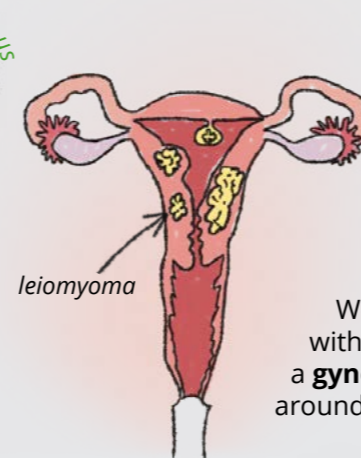
Treatment is **not necessary**, however if the leiomyomas cause a lot of pain we would consider removing them. The risk of a malignant tumour of the skin (leiomyosarcoma) is very small.



Leiomyomas in the uterus (fibroids)

Most women with HLRCC develop **fibroids in the uterus**. There can be many and they may be large. The average age at which fibroids are diagnosed is 30 years (range 18-53 years).

The fibroids may lead to serious **menstrual disorders**.



Many women require **surgery** to remove fibroids or the uterus. Half of the women who undergo surgery are younger than 30 years old.

The risk of a malignant tumour of the uterus (leiomyosarcoma) is very small.

We refer women with HLRCC to a **gynaecologist** around the age of 20.

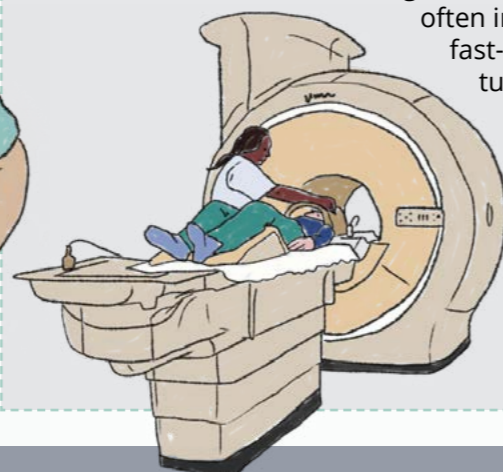


Kidney cancer

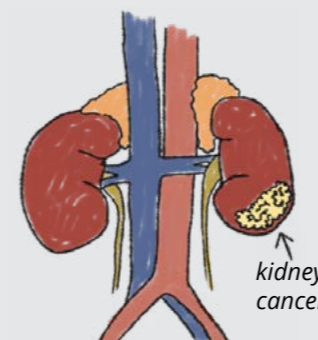
Some people with HLRCC develop **kidney cancer**. The risk of kidney cancer is approximately 15%. Usually it is a specific type of kidney tumour (type II papillary kidney cancer).

Kidney cancer in HLRCC can develop at a young age. Because HLRCC often involves fast-growing tumours, **surgery is usually performed immediately**.

The advice is to have an **MRI scan** of the kidneys every year from the age of 16.

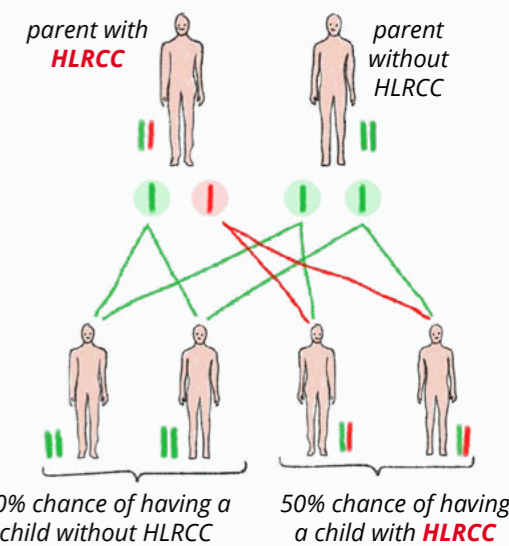


Of 100 people with HLRCC, 15 will develop kidney cancer



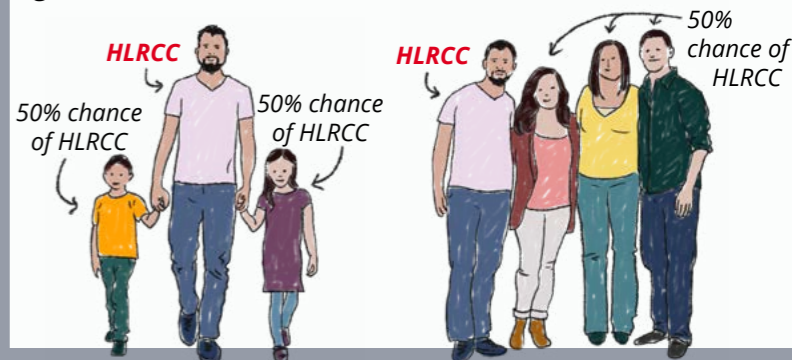
How is HLRCC inherited?

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



What does this mean for family members?

Children and siblings of people with HLRCC 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.



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**.



More information

For more information, please visit:
www.kanker.nl (Dutch)
www.erfelijkheid.nl (Dutch)
www.hlrccinfo.org (English)

