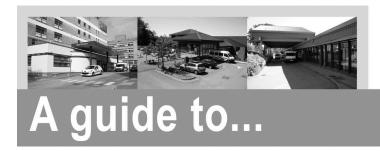
Further information

Information on who to contact, ie web sites / telephone numbers of other departments / organisations which may be of help.

How to contact us Orthopaedics Department Watford General Hospital West Hertfordshire Hospitals NHS Trust

Vicarage Road Watford Hertfordshire WD18 0HB





If you need this leaflet in another language, large print, Braille or audio version, please call **01923 217 187** or email **pals@whht.nhs.uk**







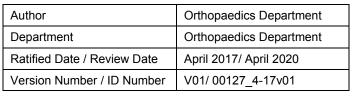


Carpal Tunnel Release

Patient information

Name of Department or Ward

[Location] Watford General Hospital Hemel Hempstead Hospital St Albans City Hospital





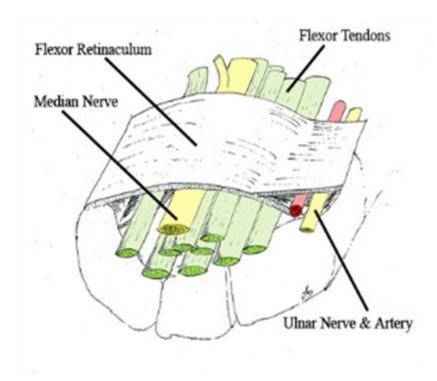
What is Carpal Tunnel?

Carpal tunnel syndrome (CTS) is a condition caused by compression of the median nerve as it passes through the carpal tunnel. The carpal tunnel is an arch formed by the bones of the wrist which has a fibrous roof called the flexor retinacaulum.

The carpal tunnel contains tendons that bend the fingers and thumb as well as the median nerve.

See diagram below

NOTE: Anything that reduces the space available in the tunnel will squash the softest thing in there, which unfortunately is the median nerve.



Symptoms of CTS include tingling, pins & needles or numbness especially in the thumb, index and middle fingers. Clumsiness and pain in the hand and forearm can also occur. These symptoms are often worse at night, or with the hand raised, for example reading a book, driving or using a phone. With severe symptoms wasting of the muscles at the base of the thumb can occur.

Making the diagnosis

The diagnosis of CTS is normally made on the basis of the history (what you tell the doctor) and the clinical examination. Sometimes if it is not clearly CTS then it is necessary to perform further tests. These may include nerve conduction tests, ultrasound scan or blood tests.

What treatments are available?

No treatment

Some cases of CTS, especially those related to pregnancy will resolve with no treatment, particularly after the baby is born.

Correcting thyroid problems can also improve CTS.

Night splints

A removable splint used at night can help relieve symptoms, in many cases without the need for further treatment.

Carpal tunnel release

A surgical procedure to release the fibrous roof of the carpal tunnel. This relieves the symptoms by providing more space for the nerve and taking the pressure off it.

What to expect from surgery?

In most cases carpal tunnel release (CTR) is performed as a day case under a local anaesthetic. This means that you will be awake during the procedure and should be able to go home shortly afterwards. The local anaesthetic is normally given a few minutes before the procedure but may be earlier as the effects will last for several hours. The local anaesthetic used contains a small dose of adrenaline, this is to help control bleeding and avoids the need for a tourniquet.

In theatre your hand will be cleaned with an antiseptic solution and covered with sterile drapes. An incision will be made on the hand. **See diagram below**. The surgical procedure usually takes around 10 minutes but this can vary. At the end of the procedure the wound will be closed with dissolvable sutures. There will be a sticky dressing and then a big bulky dressing.



Following the operation you can go home as soon as you are comfortable. Your fingers will be free and you can use your hand but avoid heavy lifting.

The bulky dressing comes down after 5 days and then remove the sticky dressing at 10 days. Either you or your GP can do this. After this you can get the hand wet. The stitches will drop out in a few more days.

After the operation

After the surgery you can use your hand almost immediately, but try to keep it dry and avoid heavy lifting for the first 2 weeks. You can drive when the bulky dressing comes down and **you can safely control the car.** You can return to sports such as tennis and golf after about 3 weeks. You will be contacted after 6 weeks to review your progress.

What are the risks?

All operations carry some risk, these include, **infection** (fortunately low risk for this surgery), **bleeding**, and there will be a **scar**.

Complex Regional Pain Syndrome (CRPS)

This can lead to a generalised pain, stiffness and swelling, can occur with any surgery. It can be identified in 2-5% of patients after CTR, though fortunately most of these are mild. Taking Vitamin C 500-1000mg per day for 2 days before and 50 days after the operation can help to reduce the risk.

There are some more specific risks:

Pillar pain is an aching pain, which is felt in the heal of the hand. This can be made worse with gripping and pressure, but you are not doing any harm by using the hand. This can go on for several months.

The operation relieves the compression of the nerve but if there is internal scaring there may be **only partial or no recovery**. As we are operating over the nerve and tendons there is a small risk of

Department of Orthopaedics

- Mr Neil Davies
- Mr Roderick Coull
- Mr Peter Dyson
- Mr Andrew Irwin
- Mr Jagajeevan Ram
- Mr Ben Rudge
- Mr Tim Waters
- Mr James Langdon
- Mr Jeremy Read
- Mr Paul Whittingham-Jones

Contact numbers

DACTS

01442 287 255

Mr Read's Secretary 01923 217 155

Notes
