

Ophthalmology Department

Micropulse Cyclodiode Laser

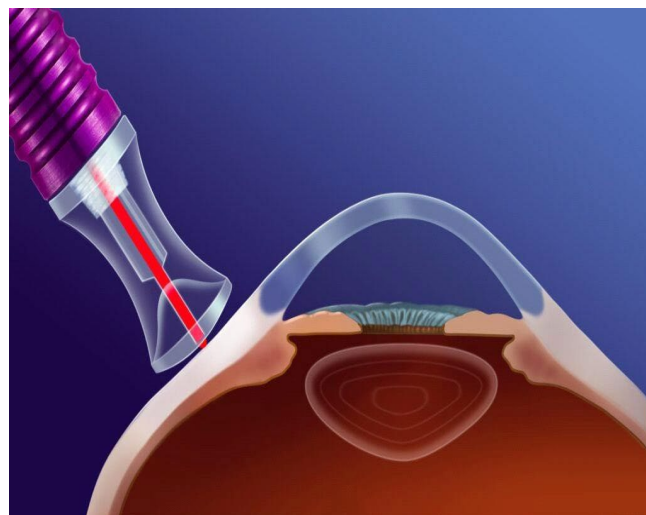
Micropulse Cyclodiode laser is a procedure performed to decrease the pressure inside the eye (intraocular pressure) by applying laser to the outside layer of the eye over the area that is producing the fluid.

The intraocular pressure is due to a balance of the production of fluid and its drainage. With the help of laser, the production can be reduced, helping to lower the pressure inside the eye. The procedure does not penetrate the eye and can be safely carried out in a clean room under local anaesthesia. The advantage of Micropulse laser is that it uses a laser which produces small pulses that do not damage the surrounding structure.

What are the benefits?

The benefit of the treatment is to reduce the intraocular pressure to prevent or delay the damage to the nerve and in some cases decrease the pain associated with the high intraocular pressure.

Studies also show that Micropulse laser reduces the eye pressure in 7 in 10 (73%) of patients, reducing the amount of glaucoma medication required for the patient. The Micropulse laser can also be safely repeated in cases where the efficacy has waned off after the initial treatment.



What to expect on the day?

The procedure is a day case procedure, which means you will be able to go home the same day after the procedure is done.

The Micropulse laser is applied under local anaesthesia. Initially the eye is numbed with drops and then a small amount of local anaesthetic is injected around the eye. It can give a sense of pressure around the eye. The anaesthetic effect can last for several hours and might also affect your vision during this time.

After this the micropulse laser is applied at the white part of the eye (figure 1) with the pen like applicator. You will be aware of the laser application. It can be applied in a sweeping movement individually to the four quadrants (figure 2) or can be applied with sweeping movement to half to the eye and then repeated for the other half (figure 3). The procedure itself takes 10-15 minutes.

After the procedure your eye will be covered with either an eye pad or a plastic shield. You will be given an anti-inflammatory drop to take home. A follow up appointment will be booked in 3 - 4 weeks to check for the effect of laser.

The After Care:

The eye can be sore after the effect of local anaesthesia wears off. The vision can also remain blurry for the initial 1-2 weeks.

Drops to make the eye comfortable will be advised and painkillers can also be used if the discomfort is more.

The glaucoma drops that were in use will go in as usual as the laser takes 5 - 6 weeks to take full effect. The doctor will, in the follow up visit, advise cessation of drops accordingly.

It might be advisable to take 1-2 weeks off from work to recover.

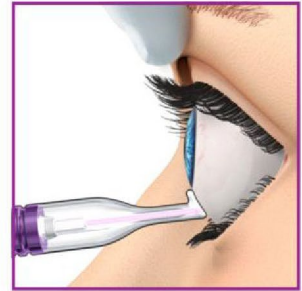


Figure 1



Figure 2



Figure 3

What are the risks?

A second procedure may be required if the initial laser treatment fails to control the intraocular pressure.

The eye still feels sore and red following the procedure which is normally expected and drops to control the inflammation in the eye will be prescribed. If required pain killers can also be used.

Vision can be reduced in the eye due to inflammation which does resolves in the following 1 - 2 weeks.

Rarely inflammation can affect the other eye.

Alternatives:

The alternative to the procedure is glaucoma drops and surgeries including trabeculectomy and shunt procedure. If no treatment is done with time it can lead to irreversible loss of vision and occasionally patient can develop pain in the eyes.

If you require URGENT advice in the first 24 hours following surgery please telephone the hospital on 01423 885959 and ask to speak to the 'eye doctor on call'.

If after this time you are concerned about anything regarding your operation, please contact the Ophthalmic Outpatient Department on 01423 542217

Out of office hours please contact 01423 885959

If you would like this information in another format or language contact the above.

Potřebujete-li tyto informace v jiném formátu nebo jazyce, obraťte se prosím na výše uvedené oddělení

Jeżeli są Państwo zainteresowani otrzymaniem tych informacji w innym formacie lub wersji językowej, prosimy skontaktować się z nami, korzystając z ww. danych kontaktowych

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بالقسم

المذكور أعلاه "