



LASER EYE SURGERY

SMILE® pro

Small incision lenticule extraction (SMILE) and its successor SMILE pro represent the latest generation of laser eye surgery. More than 10 million eyes have been treated using SMILE/SMILE pro since it was introduced in 2011.

SMILE is a bladeless, one-step, one-laser procedure performed with the ZEISS VISUMAX® 500 laser. An access opening of less than 3 mm is created in the cornea and a precise amount of corneal tissue shaped like a disc is removed to correct the patient's vision. The disc of tissue is called a lenticule.

SMILE pro is the most recent advancement in laser eye surgery. It performs the same bladeless, one-step, one-laser procedure as SMILE but uses the VISUMAX 800 laser to halve the laser treatment time to 10 seconds per eye. By shortening the laser treatment time, SMILE pro helps reduce patient anxiety during laser eye surgery.

Initial recovery is quick due to the minimally invasive, keyhole nature of the surgery. However, the visual recovery for SMILE pro may take slightly longer to stabilise when compared to LASIK.

Who SMILE pro is used for

SMILE pro is an alternative to LASIK and PRK for patients with regularly shaped corneas.

It is particularly suited to patients with a high degree of short-sightedness (myopia).

SMILE pro may be an option for patients who have previously been told they don't meet the criteria for LASIK. The procedure has less impact on the corneal nerves, making it a better option for those who are at risk of, or suffer mild dry eyes. And because the cornea heals more quickly after SMILE pro keyhole surgery compared to the flap created for LASIK, it's an ideal option for people who want to return to contact sports as soon as possible.

The procedure

You will be at the clinic for about 2 hours. The actual procedure takes about 20 minutes.

Make sure you wear warm, comfortable clothes but avoid jumpers that need to be pulled over your eyes. The laser suite can be cold because laser technology requires the room to remain at a constant, cool temperature.

You will be given anaesthetic eye drops to numb your eyes and offered a mild oral sedative to help ease any anxiety. You'll need to wait for a short period of time to allow your medication to take effect. Following this, you'll be taken into the laser suite.

After you lie down on the treatment bed, the laser will be moved into place so your eye will be in the line of the laser beam.

Your surgeon will secure your eyelids with a prop called a speculum to ensure that your eye remains open during the laser eye surgery procedure. This allows you to 'blink' without actually closing your eyelids.

Your surgeon will tell you what's going on at all times, including when the process is about to begin. You may feel slight pressure on your eye and see a bright light. Because your eyes have been numbed, you won't feel any pain.

The computer-guided, highly focused laser creates a lens-shaped disc of tissue within the cornea, before making a sub-3 mm keyhole entry point. Referred to as a lenticule, the size and shape of the lasered cornea corresponds precisely to your refractive error.

The lenticule is removed through the incision. The procedure only takes a few minutes.

The eyelid prop will then be removed.

Recovery

Following the surgery, you will be moved to the recovery room for about half an hour. This is to allow your eyes time to adjust and you time to recover from the effects of the sedative. A friend or relative will need to take you home, where you should rest for the remainder of the day.

You will be discharged with eye drops to use at home. You will receive a phone call the next day to make sure you're recovering as expected.

Patients typically experience a quick recovery following a SMILE pro procedure because it is minimally invasive. While most people can see well the next day, it generally takes a few weeks for your vision to stabilise. You will be checked two weeks after your surgery to monitor your progress.

Make sure to keep water away from your eyes for a couple of days and avoid rubbing your eyes for a few weeks.

You should be able to return to work and resume driving 2 to 3 days after surgery.

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