

飛秒激光切割

全球最先進矯視及
角膜手術科技



二零零四年十月，養和醫院陳蔭榮視力矯正中心率先引入全球最先進的矯視科技 — Intralase 飛秒激光切割器，進一步提升矯視手術的準確性和安全水平。多年來中心與時並進，不斷更新儀器，務求令激光技術盡善盡美。時至今日，飛秒激光早已廣泛應用於各類複雜的眼部手術，如角膜移植及植入角膜環，縮短康復時間之餘，復原效果亦佳。

LASIK、角膜移植及移植角膜環手術 全面激光化 全面自動化

• LASIK 矯視手術

本中心是全港首間引入並應用LASIK技術治療近視、遠視及散光的視力矯正中心。手術分為兩個部份：

1. 切割角膜
2. 以激光打磨角膜，改善弧度

飛秒激光利用紅外線激光切割角膜，準確程度遠高於傳統的微形切割器，有效避免切除過多組織，減低角膜退化的風險。手術全程由電腦控制，有效提升準確度和精細度，既可進一步減低手術風險，亦令手術效果更趨完美。

• 角膜移植

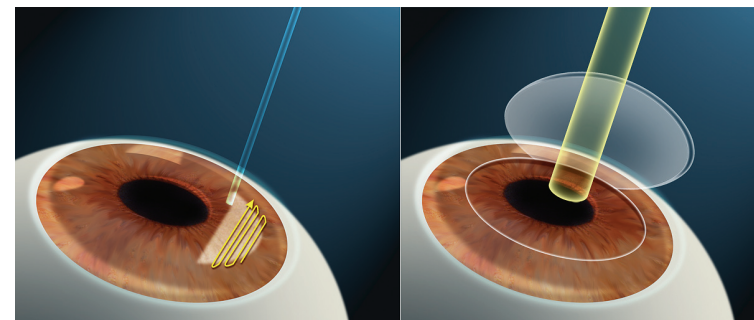
醫生以往會用鋒利的環鋸切割角膜，要多次縫合傷口，康復需時超過一年，延緩視力復原。時至今日，醫生已可透過專利電腦介面控制飛秒激光，將紅外線聚焦於病變角膜及移植組織的某一點，切割弧度精確，讓病人原有組織與移植組織能穩定結合，加快復原進度，恢復最佳視力。

• 植入角膜環

角膜環是一個半圓膠環，專門用於植入角膜手術，改善角膜弧度，期間無須切除任何組織。

利用飛秒激光在角膜造出基質通道，可大大提高治療錐形角膜的安全及準確度。相比於過去用環鋸進行手術，在作深層切割時，飛秒激光可減低穿破組織的風險，準確移植角膜環。

手術亦能舒緩病人手術後的不適，加快復原，有效恢復視力。



Intralase 激光切割角膜瓣

準分子激光打磨

飛秒激光優點一覽

- 全新激光科技切割角膜薄片
- 全自動化控制
- 準確性極高
- 手術風險極低
- 矯視效果更加完美
- 根據病人的不同情況進行最佳角膜切割
- 尤其適合高度近視及角膜薄之人士

給您最佳選擇

醫生會因應不同人士的情況和需要，建議是否採用有關技術，以達到最佳的手術效果。

查詢或預約，歡迎聯絡我們

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養和醫院
陳蔭榮視力矯正中心

Femtosecond Laser

The World's Leading Technology
in Refractive Surgery &
Corneal Surgery



Femtosecond laser is the world's leading laser technology in refractive surgery. It can provide higher accuracy and safety in the vision correction surgery. As a local pioneer in LASIK surgery, Guy Hugh Chan Refractive Surgery Centre first introduced Intralase Femtosecond Laser in October 2004. Over the last few years, we have been keeping abreast of the latest advance in the technology with continuous updates. To date, femtosecond laser is widely used in such complicated surgeries as corneal transplantation and ICR (Intracorneal Ring) implantation, achieving faster healing and better visual results.

All-Laser, Computer-Controlled Approach to LASIK, Corneal Transplantation & ICR Implantation

- **LASIK**

Our Centre is the first one in Hong Kong to employ LASIK surgery techniques to correct refractive errors including myopia, hyperopia and astigmatism. It is carried out in two steps:

1. Cutting corneal flap
2. Removing corneal tissue with excimer laser to reshape corneal curvature.

Compared with microkeratomes, femtosecond laser can now cut the corneal flap with micron level accuracy, resulting in far less tissue wastage and reduced risk of corneal degeneration.

Each single step is controlled by computer with unparalleled precision to minimize flap complications and achieve better visual results.

- **Corneal Transplantation**

Before the advent of femtosecond laser, corneal transplantation was performed using a bladed trephine. The transplanted tissue requires multiple sutures, which usually stay in the eye for over a year and delay full visual recovery. To date, surgeons can control the laser using a patented computer interface. The laser's infra-red beam is focused upon a point within both the diseased cornea and transplant tissue to create precise, interlocking edges. The transplanted graft and existing tissue will have much better stability and strength, allowing faster recovery and better sight restoration.

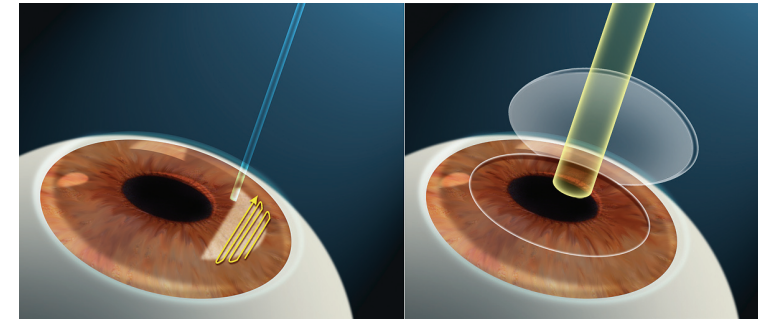
- **ICR Implantation**

ICR is a semicircular plastic ring, specially made for implantation within the cornea to reshape corneal

curvature. It is effective in correcting irregular cornea without tissue removal.

In the treatment of keratoconus, femtosecond laser can achieve better safety and precision with the creation of corneal stromal tunnels. Compared with mechanical microkeratomes, femtosecond laser can reduce the risk of perforation in deep dissections and allow more accurate placement during ICR implantation. The laser channel carving also allows symmetry of ring placement.

Using femtosecond laser, ICR implantation is better tolerated with less postoperative discomfort, faster recovery and better restoration of visual acuity.



Intralase Laser Corneal Flap Cutting

Excimer Laser Application

Benefits of Femtosecond Laser

- Revolutionary laser technology for flap cutting
- Completely computer - controlled
- Extremely precise
- Excellent safety profile
- Surgical outcome further improved
- Customizable for each patient
- Specially beneficial to patients with high myopia and thin cornea

A Better Choice for You

Your doctor will discuss the technology with you on the basis of your situation and needs for your best interests and best visual results.

For enquiries and appointment, please contact us at :

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