

Topography

This hospital is equipped with Eye Sys 2000 Corneal Topography Instrument. Topography is used to test the strength and form of cornea. Using topography, the images processed with computer can show the refractive power of cornea, probability and rate of astigmatism and its axis and irregular astigmatism especially *Keratoconus*. The most important application of topography is examination before and after refractive surgeries such as RK, PRK and Lasik operations.

Pachymetry

Pachymetry is an ultrasonic method for measuring the thickness of cornea. Using this instrument we can measure the thickness of cornea in the center and 8 mid-periphery points.

One of the applications of mid periphery is before Lasik operation. Using Pachymetry, the maximum removable thickness can be estimated using Excimer laser during operation.

Perimetry

Perimetry is used to examine the visual field of eyes and it is used in glaucoma, Optic neuritis and optic nerves because of brain diseases. Using this instrument 10,20 and 30 grades of visual field can be examined using threshold method and it has different techniques for analysis of visual field. This hospital has one Zeiss computer perimetry device and one Topcon manual perimetry device.

OCT

OCT is a device to determine the thickness of different layers of retina and the optic nerve head. Using this device we can determine *macular edema (in diabetic patients and after cataract surgery, existence of fluid under the retina (in CSR and AMD) and also measuring CPU in glaucoma.*

Angiography

Considering that the retinal artery system is directly observable using slit lamp, a florescent substance is injected from the front arteries of elbow in this method and then imaging is done using a special camera. Optic angiography is used for diagnosing occlusion of retinal arteries, CSR, AMD, diabetic retinopathy and other arterial, choroidal and ischemic diseases of retina. This hospital has two Topcon and Canon Angiography instruments.

Laser Therapy

Alavi Hospital has argon, krypton and diode laser devices that are used for treatment of diseases such as diabetic macular edema, diabetic retinopathy, AMD, LSR, retinal arteries occlusion and macula edema resulting from it and other retinal diseases with their destructive effect on arteries and tissues of retina.

4- Emergency

Emergency ward is in the entrance part of the treatment building of hospital and offers ophthalmology emergency services such as foreign object, eye burns, eye strokes, acute eye infections and eye allergies. This ward is open round the clock and trained and skilled general practitioners offer ophthalmology emergency services to clients.

Perspective

Alavi Educational Treatment Center is decisive to create a proper background for establishment of the standards of modern health system and increase the satisfaction level of clients and accomplish the following objections within five years:

- Take the required actions for construction of new building of hospital to offer standard treatment services
- Be one of the pioneer centers in offering proper residence services and facilities towards customer-orientation
- Use its maximum capacity to use patient safety standards and be one of patient safety friendly centers