

List of instruments used in ophthalmology

Instruments used specially in Ophthalmology are as follows: ^[1]

__Forcetoc__

Instrument list

Instrument	Uses
Spectacles (glasses)	to correct refractive errors of the eye; not invasive
Contact lenses	to correct refractive errors of the eye; a little invasive
Phoropter	used in refraction testing
Tonometers	used to determine the intraocular pressure (IOP) - useful in glaucoma; <i>vide link</i> for various types of tonometers.
Speculum:	to keep the eyes open during any operation
Universal eye speculum	-do-; heavy instrument and can not keep eyelashes out of the operating field
•Guarded eye speculum (left and right)	-do-; heavy instrument but can keep eyelashes out of the operating field with its "guard" and hence left or right ones are required
•Wire Speculum	to keep the eyes open during any operation; light wire instrument
Needle holders:	holding the needle in position while applying sutures
•Silcock's needle holder	-do-; has a catch and is used for heavier gauge needles; used mainly for skin, muscle and corneal incisions
•Arruga's needle holder	-do-; has a catch (lock) and is used for heavier gauge needles (thicker than 6-0); used mainly for skin, muscle and corneal incisions
•Barraquer's needle holder	-do-; small instrument with a spring action with or without a catch used for finer gauge needles (5-0 or finer); used mainly for intraocular ^[2] incisions
Forceps:	to hold anything
•Artery forceps (haemostat)	medium sized, with a serrated tip and a catch; used to hold bleeding vessels and compress them in order to make them stop bleeding and also to hold or crush structures.
•Fixation forceps	has a few teeth at the tip; for holding structures and restricting their movement or to hold small swabs
•Plain dissecting forceps	blunt untoothed with a serrated tip; for holding structures and restricting their movement or to hold small swabs
•Iris forceps	fine tipped (straight or otherwise) with small teeth; to hold the iris tissue during procedures
•Elschnig's intracapsular forceps	fine untoothed forceps for holding tissue, swabs, sutures, etc.; removing things like clots, capsule fragments, lens, etc.; used in cataract surgery
•Arruga's intracapsular forceps	fine untoothed forceps holding tissue, swabs, sutures, etc.; removing things like clots, capsule fragments, lens, etc.; used in cataract surgery
•Colibri forceps	fine toothed forceps for holding flaps of cornea or sclera and rarely the iris
•Saint Martin's forceps	holding flaps of cornea or sclera and rarely the iris
•Superior rectus holding forceps	specially curved (to fit into the orbit of the eye) forceps for catching hold of the muscle bellies of the intraorbital muscles and sutures
•Suture tier forceps	fine limbed untoothed forceps to hold fine sutures or hairs
•Capsulotomy forceps	to tear the anterior capsule of the lens during cataract surgery
•Disc holding forceps	used in glaucoma surgery (obsolete)

•Capsulorhexis forceps	fine sharp-tipped untoothed forceps for doing a continuous curvilinear incision and removal of the anterior capsule of the lens ("continuous curvilinear capsulorhexis - ccc")
•MacPherson's forceps	fine sharp-tipped untoothed forceps with an angulation for holding parts of the lens, the intraocular lens, 10-0 (very fine) sutures, etc.
•Chalazion forceps (clamp)	self-retaining with discoid ends; used to hold and prevent a chalazion from bleeding during its surgery
•Epilation forceps (Cilia forceps)	stout flat-ended blunt forceps with a thickened end to remove eyelashes
•Entropion forceps	self-retaining with big discoid ends used to hold and prevent an entropion from bleeding during its surgery
Chalazion scoop	to remove the granulation tissue from a chalazion during surgery
Entropion clamp	right and left varieties exist; large clamp with two limbs; self-retaining with big discoid ends used to hold and prevent an entropion from bleeding during its surgery
Nettleship's punctum dilator	to dilate the lacrimal punctum of the lacrimal apparatus of the eye for syringing or operations
Cystitome	a 26 gauge needle bent twice used for incising the anterior capsule of the lens in lens extraction
Wire vectis	a loop of wire attached to a stack used to extract cataract affected lenses
Irrigating vectis	a small hollow instrument with a used to introduce fluid into the anterior chamber to raise its pressure to aid cataract extraction ^[3]
Canula	used to carry fluid
•Irrigation-aspiration two-way canula	effectively two small canulae fitted together, one to introduce fluid and the other to extract the cortical materials, blood, etc. in eye operations
•Lacrimal canula	small curved canula the size of a syringe needle used to introduce fluids or drugs into the nasolacrimal passage to test its patency or during surgery (dacryocystography, dacryocystectomy, dacryocystorhinostomy(DCR), etc.
Lang's lacrimal dissector with scoop	for blunt dissections and cleaning during operations like dacryocystorhinostomy
Rougine	dissection of lacrimal sac
Retractor	to pull and hold overlying tissue out of the operating field
•Muller's self retaining adjustable haemostatic retractor	-do-; self retaining haemostatic
•Cat's paw retractor	-do-
•Desmarre's lid retractor	-do-; specially for noncooperative patients and to see the fornices (see human eye)
Bone punch	to fracture pieces from a thin bone in facial surgery and during operations like dacryocystorhinostomy
Evisceration spoon or scoop	removing all the contents of the eyeball during evisceration (complete removal of all structures within the eye in diseases like endophthalmitis)
Lid plate	flat large instrument that has a groove and is placed between the lid and globe of the eye to provide a solid support for eyelid surgery
Hammer, chisel and bone gouge	bone cutting and shaping
Bowmen's dissection needle	microsurgery of the lens capsule ^[4]
Knives	to cut structures
•Surgical scalpel with small blades	general purpose instrument
•von Graefe's cataract knife	cutting out of the anterior chamber from the inside through the limbus
•Tookes' knife (Sclero-corneal splitter)	making sclerocorneal tunnels in "small incision cataract surgery (SICS)" and keratoplasty
•Crescent knife (Sclero-corneal splitter)	making sclerocorneal tunnels in "small incision cataract surgery"

•Angular keratome	making sclerocorneal tunnels in "small incision cataract surgery"; larger one used to increase the size of the incision
•Side-port blade	making sclerocorneal "side port" (a secondary tunnel) tunnels in "small incision cataract surgery"
•Beer's knife	incise the conjunctiva or the eyelid skin
•Keratome	small triangular blade with two sharp edges used to incise the limbus (sclerocorneal junction)
•Zeigler's knife	very tiny knife for intaoocular maneuvers specially when space is less
Scissors	-
•Conjunctival sac scissors	flat small curved scissors to cut the conjunctive
•Corneal spring scissors	medium spring-open used to cut the external side of the cornea, fine sutures; iris, etc.
•de' Wecker's iris scissors	small slender spring-open scissors for intraocular maneuvers (iris and deeper and more delicate structures); has two wings to operate it and one sharp and one blunt blade.
•Vannas' scissors	small slender spring-open scissors for intraocular maneuvers (iris and deeper and more delicate structures); has two wings to operate it and one sharp and one blunt blade.
•Enucleation scissors	thick scissors used to cut the optic nerve in enucleation operation
Bowman's lacrimal probe	probing the nasolacrimal duct
Lens expressor	used to force out the lens in extracapsular or intracapsular cataract extraction
McNamar's spoon	used to force out the lens in intracapsular cataract extraction
Iris repositor	two limbed instrument used to remove the iris during posterior chamber maneuvers
Sinsky's hook intraocular lens dialler	angulated round hook with a handle used in insertion of an intraocular lens
Strabismus hook	muscle hook or squint hook; sharp tip or knobbed tip; used in squint surgery
Foreign body spud and needle	Spud to remove superficial and needle for the deep foreign bodies in the eye
Elliot's trephine with handle	used in corneal donation (eye donation) to cut out the cornea in a circular fashion
Castroveijo's calipers	various measurements are taken
Castroveijo's corneal trephine	used in corneal donation (eye donation) to cut out the cornea in a circular fashion
Pin-hole	testing visual acuity
Red green goggles	(red - right side & green - left side) used in Worth 4 dot test, diplopia testing
Prisms	to diagnose squints; in other instruments; refractive correction; etc.
Placido's disc	to assess the condition of the corneal surface
Retinoscope	objective determination of refractive error and for looking inside the eye
Loupe	used ot search for magnified examination of the anterior segment of the eye (uniocular or binocular)
Jackson's cross cylinder	used to check the power and axis of a cylindrical lens
Maddox rod	used to test for latent squint and retinal function
Refraction box	has lenses of different powers for refraction testing
Slit lamp bimicroscope	used for examining the anteriorly placed structures the eye; <i>vide link</i>
Charts for vision	-
•Distant vision	to determine visual acuity of distant vision
••Snellen's distant vision chart	-do-; for those who can read in English
••Regional language charts	-do-; for those who can read in their local language
••E Chart	-do-; for those who can not read
••Landolt's broken ring chart	-do-; for those who can not read

••Toys pr picture chart	-do-; for children
•Near vision	-do-; to determine visual acuity of near vision
••Jager's chart	-do-
••Printer's types of N series	-do-
••Snellen's near chart (1/17th reduction of distant chart)	-do-; standard chart of alphabets; <i>vide link</i>
•Colour vision:	to test colour vision
••Ishihara's chart	to determine the type of colour blindness
Stenopaic slit	detection of axis of the cylindrical (astigmatism) power of the eye; glaucoma testing
Implants	-
•Intraocular lens	prosthetic lenses implanted after lens (anatomy) removal
•Artificial eyes	as non-functional cosmetic implants into the eye socket
Blade breaker	to break disposable blade after use to prevent reuse
Thermo-cautery	to coagulate blood vessels and prevent haemorrhage
Cryoprobe	to freeze and extract the lens
Yttrium aluminium garnet laser (YAG laser)	to correct posterior capsular opacification (specially after removal of a cataract, if required), peripheral iridotomy, retinal surgery, laser-assisted sub-epithelial keratectomy (LASEK) ^[5] etc.
Electrolysis	used for permanent hair removal
Electrocautery	for electrosurgery
Phacoemulsification	used for extraction of a cataract affected lens after emulsifying it using a high frequency (energy) ultrasound probe ^[6]

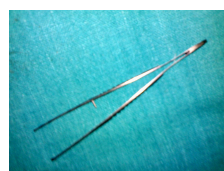
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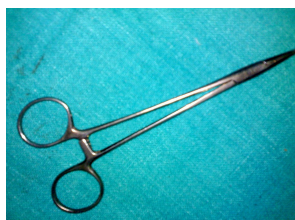
Glasses



Contact lenses



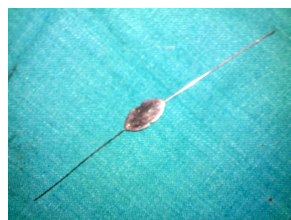
Plain dissecting forceps

Artery forceps or
Haemostat

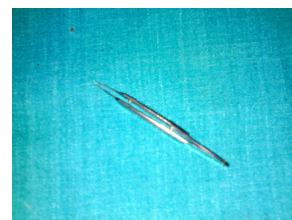
Mosquito forceps



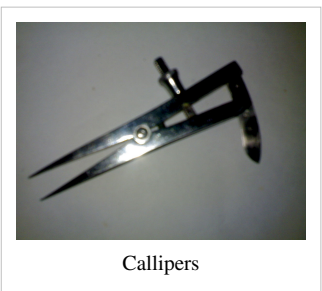
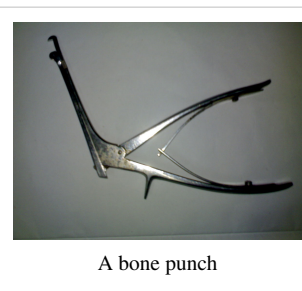
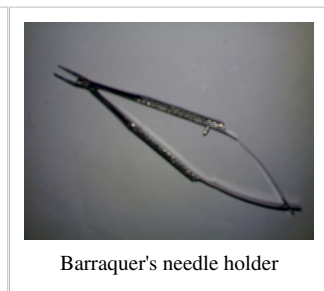
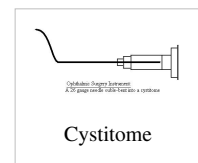
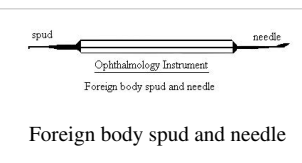
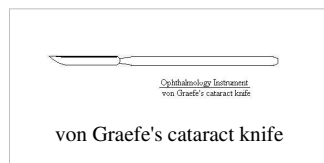
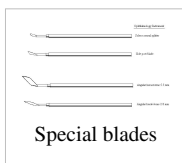
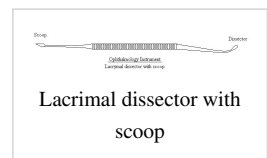
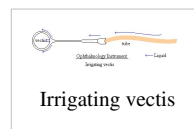
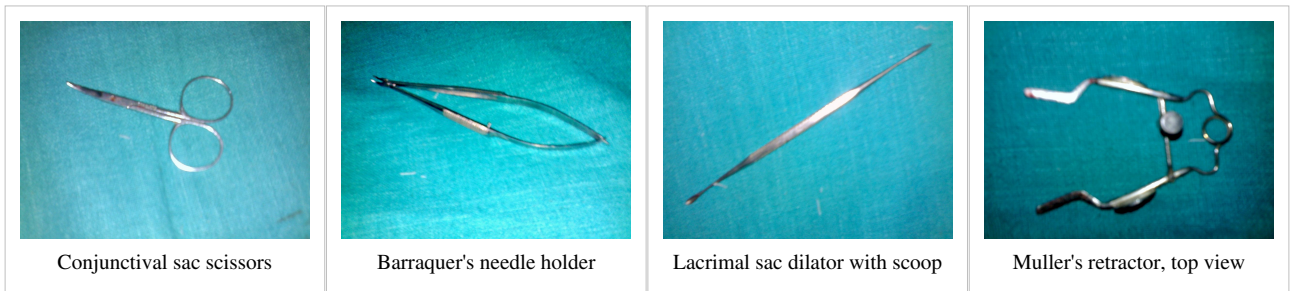
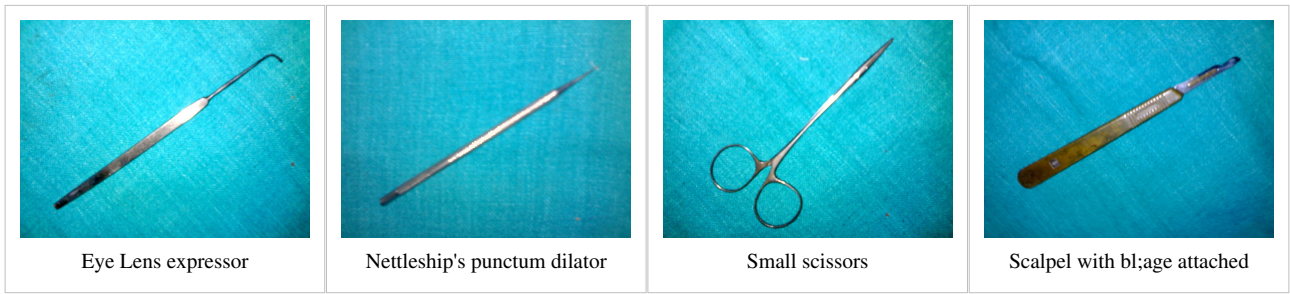
Linen holding forceps



Bowman's lacrimal probe



Saint Martin's forceps

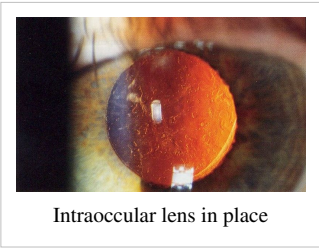




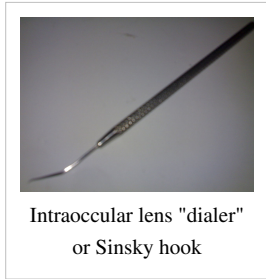
Corneal spring scissors



Intraocular lenses in their cases



Intraocular lens in place



Intraocular lens "dialer" or Sinsky hook



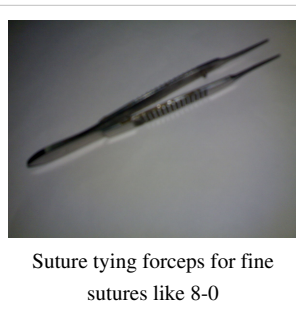
Irrigating aspirating bi-way cannula



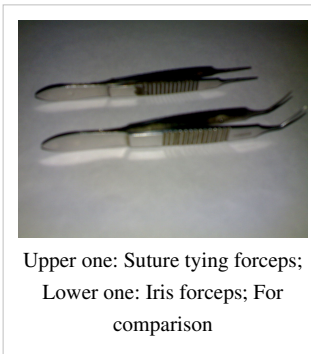
Lenses used for refraction testing



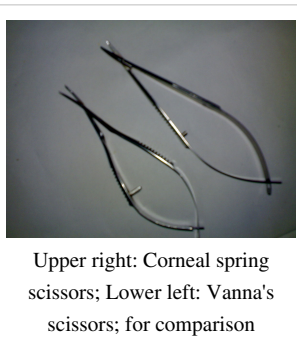
A retinoscope



Suture tying forceps for fine sutures like 8-0



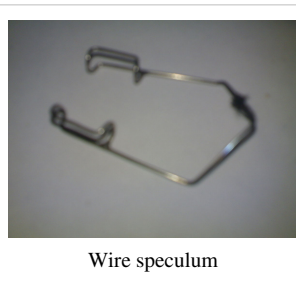
Upper one: Suture tying forceps; Lower one: Iris forceps; For comparison



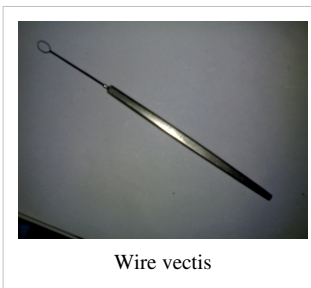
Upper right: Corneal spring scissors; Lower left: Vanna's scissors; for comparison



Vanna's scissors



Wire speculum



Wire vectis



Plain dissecting forceps



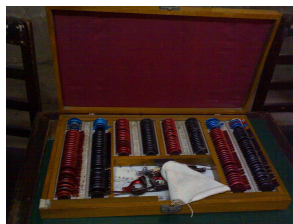
Thermocautery



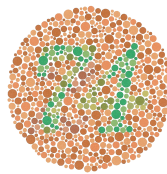
A standard illuminated E chart



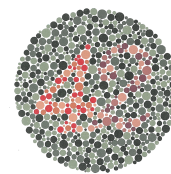
A standard illuminated Snellen's chart for distant vision



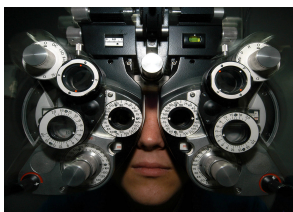
A set of lenses used in refraction testing



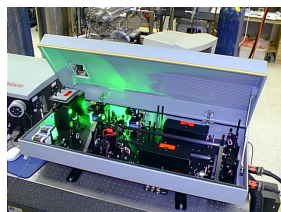
Ishihara Plate 9



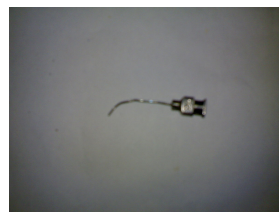
Ishihara Plate 23



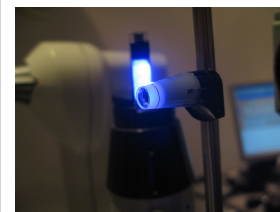
A phoropter



NdYAG Laser



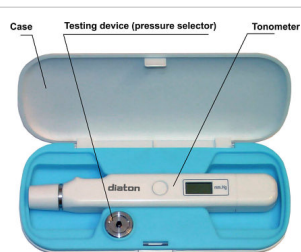
Lacrimal canula



Tip of Applanation Tonometer



Tonopen tonometer



Hand-held transpalpebral Diaton tonometer

References

- [1] Ophthalmology Oral & Practical 3rd edition, by Dr. Samar K. Basak, ISBN 81-86793-66-6
- [2] <http://en.wiktionary.org/wiki/intraocular>
- [3] Irrigating vectis - Patent 4479802 (<http://www.freepatentsonline.com/4479802.html>)
- [4] Billson FA, Thurgood R, Perriam DJ (December 1975). "Discission needle" (<http://bjo.bmj.com/cgi/pmidlookup?view=long&pmid=1218187>). *Br J Ophthalmol* **59** (12): 741. doi:10.1136/bjo.59.12.741. PMC 1017447. PMID 1218187. .
- [5] US FDA/CDRH: LASIK - Learning About LASIK (<http://www.fda.gov/CDRH/LASIK/>)
- [6] Untitled Document (http://www.eyesurgeryinstitute.com/surgical_treatments.html)

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