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Eye surgery instruments pictures and names pdf

compiled by Elizabeth Gauger, MD. Photo by Randy Verdick, FOPS Note: Catalog numbers are current as of April 2013. Note, however, that these numbers will change occasionally. Click on any image to see the highest resolution photo Instrument tray with lid, Storz E-7415 Description of the top tray, common name, catalog number Typical Use(s) Photo (aka Bonn Forceps) catalog number: Storz E1809 Holding delicate tissues like a scleral flap during glaucoma surgery; It has thin teeth smaller than the classic .12 (also known as Ultrara Forceps) catalogue number: Storz 2-719 Capsulorhexis; Remove the stuck haptic from the IOL optics (aka smooth forceps) catalog number: Storz E1400 Holding conjunctive toothless for glaucoma surgery (aka .12 forceps) catalogue number: Storz E1796 Ophthalmology workhorse; Holding sclera, eye fastening for suture, tie-tie platform (alias straight tie forceps) catalog number: Storz E1815S Slurry, placement and removal of iris hooks (alias angle tie forceps) catalog number: Storz E1815A Tying suture (aka Kellman's forceps) catalog number: Katena K5-5030 Very useful instrument; Substitution for angled draw; Removal of material from the catalog number AC (aka Cracker) Storz 2-800 Crack after grooving (alias Vannas scissors) catalogue number: Storz E-3386 Cut fine suture; Cut previous capsule; iridotomy (also known as Vannas Scissors) catalogue number: Storz E-3387 Cut fine suture; Cut previous capsule; iridotomy (also known as Westcott scissors) catalogue number: Storz E3320R Peritomy; Dissection (also known as Beaver) Holding blades; (Rarely used) (alias Gill knife) catalogue number: Storz E396 Scrape fabric remaining out of sclera (Sinsky) catalogue number: Storz E545 Rote IOL; Haptic position (aka Angled Kuglen) catalog number: Katena K3-5523 Position IOL and haptics; Fix eye with paracentesis; Retrieve AC suture (aka Kuglen hook) catalog number: Katena K3-5522 Position IOL and haptics; Fix eye with paracentesis; Recover ac suture (aka Old Chopper) catalogue number: Rhein AE-2517 Oldest helicopter ; (rarely used now) (alias Chopper) catalog number: Rumex 415R Nucleofracts; Sharp plate side (vertical); Side of the ball (horizontal); You can use to rotate IOL and lens (aka Lefty Chopper) catalog number: Rhein 08-14536R Nucleofracts; Sharp plate side (vertical); Side of the ball (horizontal); You can use to rotate IOL and lens (aka Drysdale) catalog number: Storz E0629 Very useful ; Centrifugation lens; Polish rear capsule catalog number (aka Fastening Ring) : Rhein AE-2198 Keep an eye while doing the incision (aka Cyclo Spatula) catalog number: Storz E489 Swept by vitri; Iris replacement catalog number: Storz E4106K Tray Click on any image to see the highest resolution photo Description, Common name, catalog number Typical Uses Photo (alias Lash Drape scissors) catalog number: Storz E3436 Cutting drape (alias Stevens) catalog number: Storz E3562 Dissection en quadrants (aka Big Scissors) catalog number: V Mueller SU1800 Tall drapes (alias Driver needle) catalogue number: Micra N303W Fine suture placement number: Codman 4140 Rarely used in cataract surgery; placement of 4-0 silk clamp suture (also known as mosquito forceps) catalog number: V Mueller SU2702 Holding suture to drape (aka Edwards) catalog number: Cardinal Health 200 Inc. 58425 Securing drape last update: 04/30/2013 Share this page: This is a list of instruments used in ophthalmology. [1] Instrument list A complete list of ophthalmic instruments can be found below: Instrument Uses toric marker to mark 0 to 180 degrees reference mark for the Toric IOL Pre-helicopter implant to cut the lens into pieces before the implantation of new lens and reduce the time of phaco Spectacles (glasses) to correct refractive errors of the eye; non-invasive contact lenses to correct refractive eye errors; some invasive Phoropter used in tonometer refraction tests used to determine intraocular pressure (OP) - useful in glaucoma; video link for various types of tonometers. Speculum: to keep your eyes open during any Universal eye speculum operation -do-; heavy instrument and cannot keep tabs off the field of operations •Watched eye speculum (left and right) -do-; heavy instrument, but can keep tabs off the operating field with your watch and therefore require left or right •Wire Speculum to keep your eyes open during any operation; Light wire instrument Needle door: holding the needle in position while applying sutures •Silcock needle door -do-, has a catch and is used for heavier meter needles; it is mainly used for skin, muscle and corneal incisions •Wrinkle needle door -do-; it has a catch (lock) and is used for heavier meter needles (thicker than 6-0); it is mainly used for skin, muscle and corneal incisions •Barraquer needle door -do-; small instrument with a dock action with or without capture used for thinner wide needles (5-0 or thinner); it is mainly used for Forceps intraocular incisions: to contain anything •Medium-sized artery fossils (haemostat), with a serrated tip and a catch; they are used to contain the bleeding vessels and compress them in order to stop them bleeding and also to maintain or crush structures. •Fastening orps have a few teeth at the tip; to sustain structures and restrict their movement or to contain small scovillons •Dissect the toothless forceps with a serrated tip; to sustain structures and restrict their movement or to contain small scovillons •Iris fine forceps (straight or otherwise) with small teeth; maintain iris tissue during procedures •Elschnig's intracapsular forceps force unformed force for the celebration of tissue, scovillons, etc.; removing things like clots, capsule fragments, lens, etc.; is used in cataract surgery •The intracapsular forceps of fine wrinkles without tuning holding tissue, swabs, sutures, etc.; removing things like clots, capsule fragments, lens, etc.; is used in cataract surgery •Colibri thin toothed forceps for holding cornea or sclera flaps and rarely iris •St. Martin's forces holding cornea or sclera flaps and rarely the upper iris •Upper rectus specially curved forceps (to fit into the orbit of the eye) forceps for the capture of the muscle bellies of the intraorbital muscles and sutures •Thin suture level forceps align the forceps without supporting to hold fine sutures or hair • Capsulotomy forceps to tear the anterior capsule off the lens during cataract surgery •Disc that holds the forceps used in glaucoma surgery (obsolete) •Capsulorhexis forceps thin untouched laps to make an incision continuous curvilinear and removal of the anterior lens capsule (continuous curvilinear capsulorhexis - ccc) •MacPherson's forces thin untouched vaults with an angulation to hold parts of the lens, intraocular lens, 10-0 (very thin) sutures, etc. •Chalazion forceps (clamp) self-retention with discoid ends; is used to sustain and prevent a chalazion of bleeding during his surgery Diamond knife used to perform microincisions on the cornea in radial keratotomy and Mini Radial Asymtreda Keratotomy (M.A.R.K.) •Epilate forceps (Cilia forceps) forceful forceps with a thick end to remove the eyelashes •Entropion forceps self-retention with large discoid ends used to sustain and prevent an entropion from bleeding during its scoop Chalazion surgery to remove granulation tissue from a chalazion during surgery Entropy clamps the right and left varieties exist; large clamp with two limbs; self-restraint with large discoid ends used to hold and prevent an entropion from bleeding during its surgery The netleship puncture dilator to dilate the tear puncture of the eye's tear apparatus by syringe or operations Cystitome a needle of 26 caliber bent twice used by incisive the anterior capsule of the lens in the extraction of lenses Wire vectis a loop of wire attached to a stack used to extract affected slow cataracts Watering vectis a small Empty instrument with one used to insert liquid into the anterior chamber to raise its pressure to aid the extraction of cataracts[2] Canula used to transport fluid •Canula of two irrigation aspirations effectively two small canulae fitted together, one to introduce fluid and the other to extract cortical materials, blood, etc. in eye operations •Small tear canula curved canula the size of a syringe needle used to introduce fluids or drugs into the nasolacrimal passage to test patence or during surgery (dacryocystography, dacryocystotomy, dacryocystorhinostomy(DCR)), etc. Lang's tear dissect with scoop for blunt dissections and cleaning during operations such as the dissection of rougine dissecting the retractor tear sac to remove and keep the tissue oversized outside the operations field •Muller's adjustable haemostatic retractable -do-; haestatic self-care •Pot retractor cat -do- •Desmarre lid retractor -do-; especially for uncooperative patients and to see the fornices (see human eye) Bone punch to pieces of fracture of a thin bone in facial surgery and during operations such as the evisceration of dacryocystorhinostomy dacryocystorhinostomy or scoop by removing all the contents of the eyeball during evisceration (complete removal of all structures within the eye in diseases such as endophthalmitis Large flat plate instrument that has a groove and is placed between the lid and the eyeball to provide solid support for hammer eyelid surgery, chisel and bone cutting and bowmen disscission needle microsurgery configuration of the lens capsule[3] Knives to cut structures •Surgical scalpel with small blades of general purpose instrument •von Graefe's cataract knife cutting the anterior chamber from the inside through the limbus •Prensa knife (sclero-corneal divider) making sclerocorneal tunnels in cataract surgery Small incision (SICS) and ker •Crescent knife (sclero-corneal divider) making sclerocorneal tunnels in small incision cataract surgery •Angular keratoma making sclerocorneal tunnels in small incision cataract surgery; larger is used to increase the size of the incision •Side port blade making lateral port sclerocorneal tunnels (a secondary tunnel) in small incision cataract surgery • Beer knife incise conjunctive or eyelid skin •Keratome small sheet triangular with two sharp edges used to incisively limbus (sclerocorneal junction) •Zeigler knife very small knife for intaacular manoeuvres especially when space is less Scissors • •Scissors of conjunctive sack small curved scissors for cut the conjunctive •Medium-open corneal spring scissors used to cut the outer side of the cornea, fine sutures; iris, etc. •de' Wecker iris scissors small slender scissors open in spring for intraocular maneuvers (irises and deeper and more delicate structures); it has two wings to operate it and a sharp blade and a blunt blade. •Vannas scissors small slender scissors opened in spring for intraocular maneuvers (iris and deeper and delicate structures); it has two wings to operate it and a sharp blade and a blunt blade. •Thick scissors of enucleation scissors used to cut the optic nerve in Bowman's tear probe enucleation operation testing the nasolacrimal duct lens expressor used to force the lens into extracting extracapsular or intracapsular McNamar' cataracts. s spoon used to force the lens in extraction of iris intracapsular cataracts repository two limb instruments used to remove the iris during subsequent maneuvers of the camera Sinsky intraocular hook angulated round hook with a handle used in the insertion of an intraocular lens Strabismus muscle hook or hook squint; sharp tip or sharp tip; used in squint surgery Strange body spud and spud needle to remove surface and needle for foreign bodies deep in the trefina of the eye Elliot with handle in the donation of cornea (eye donation) to cut the cornea in a circular way Castro The tweezers deVejjo take various measures of the corneal trefina of Castroviejjo used in corneal donation (eye donation) to cut the cornea in a circular way Pin-hole testing the visual acuity Red green (red - right side and green - left side) used in the point test Worth 4, diplopia test prisms to measure the degree of squints; in other instruments; refractive correction; Etc. Placido's disk to evaluate the state of the corneal surface Retinoscope objective determination of refractive error and to look inside the loupe eye used to look for the magnificent examination of the anterior segment of the eye (uniocular or binocular) cross cylinder Jackson used to check the power and axis of a maddox cylinder wand used to test for latent and retinal function Refraction box has lenses of different powers for the Slit bio microscope refraction test used to examine the structures previously placed in the eye; video link Graphics for vision • Distant vision to determine the visual acuity of distant vision •Snellen's distant vision graphic -do-; for those who can read in English •Regional language letters -do-; for those who can read in their local language •E Graphic -do-; for those who cannot read Landolt's broken ring chart -do-; for those who cannot read •Graphics of PR images of toys -do-; for children •Near vision -do-; to determine the visual acuity of the nearview •Jager Graphic -do- ••The printer types of series N -do- ••Snellen's close graph (1/17th distant chart reduction) -do-; standard alphabet chart; video link •Color vision: to test the color vision •Ishihara graphic to determine the type of color thread Detection stenopaec cutting of the axis of cylindrical power (astigmatism) of the eye; glaucoma testing Implants - •Prosthetic lenses of intraocular lenses implanted after removal of the lens (anatomy) •Artificial eyes such as non-functional cosmetic implants on the eye socket blade switch to break the single-use blade after use to prevent the reuse of thermos falls to clot the blood vessels and prevent cryoprobe bleeding by freezing and extracting the aluminum granate laser lens Yttrium (YAG laser) to correct posterior capsular opacification (especially after removal of a cataract), peripheral iridotomy, retinal surgery, laser-assisted subtheel lithology querectomy (LASEK)[4] etc. Electrolysis used for permanent electrocautery hair removal for phacoemulsification electrosurgery used for the extraction of a cataract-affected lens after emulsifying it using a high frequency ultrasonic probe (energy) [5] Image gallery Akahoshi Combo II PreChopper Glasses Contact Lenses Contact Lenses Dissecting Smooth Artery Forceps or Haemostat Mosquito Linen Force holding the tear gass probe of Bowman St Martin's forceps Eye Lens expressor Nettleship's punctum dilator Small scissors Scalpel with blade attached Conjunctival sack scissors Barraquer's Holder Lacrimal sack dilator with Muller retractor scoop, muller retractor top view, lower view Keratome angular Long dissect forceps Universal eye speculum Rougine Iris repository Irrigating vectis Lacrimal dissect with scoop Special blades cataract knife von Graefe Strange body spud and needle Cystitome Queratomes Barraquer Needles A needle of bone Callipers Spring Scissors corneal intraocular lenses in their cases Intraocular lenses in place Intraocular dialer lens or hook Sinsky watering bidnula bidnula bid-way Lenses used for refraction tests A retinoscope Suture tying forceps for fine sutures such as 8-0 Superior: Suture tying the forceps; Lower: Iris forceps; For the upper right comparison: Corneal spring scissors; Bottom left: Yanna scissors; to compare Yanna Wire's scissors speculum Wire vectis Planellas dissecting thermocautery phosphorus A standard illuminated E card A standard illuminated graphic of Snellen for distant vision A set of lenses used in refraction tests Ishihara Plate 9 Ishihara Plate 23 A phoropter NdYAG Laser Lacrimal canula References ^ Ophthalmology Oral & Practical 3rd edition, by Dr. Danesh ISBN 81-86793-66-6 ^ Watering Vectis - Patent 4479802 ^ Bilson FA, Thurgood R, Perriam DJ (December 1975). ^ Needle of Discission. 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