Chapter 15

Eye and Ocular Adnexa, Auditory Systems

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Objectives

- Understand the components of the eye and of the ear
- Define key terms
- Understand the most common pathologies affecting these sense organs
- Understand eye surgeries and ear surgeries and how they relate to pathologies
- Recognize common eponyms and acronyms for these specialties
- Identify when other sections of CPT® or ICD-9-CM should be accessed
- Know when HCPCS Level II codes or modifiers are appropriate

Anatomy: Eye and Ocular Adnexa

- Eyeball
- Optic nerve
- Ophthalmology/ophthalmologist
- Optometry/optometrist
- Ophthalmoscope
Anatomy: Eye and Ocular Adnexa

Eyeball – an inch (25mm) in diameter
- Sclera – white of the eye
- Cornea – transparent
- Pupil and Iris
- Choroid – vascular layer
- Retina – pigmented nerve layer

Optic nerve and Optic disc

Anatomy: Eye and Ocular Adnexa

- Iris – regulates light entering
- Pupil
- Vitreous humor – fills posterior segment
- Ciliary body – suspensory ligaments of lens
- Lens – changes shape

Anterior chamber
Anatomy: Eye and Ocular Adnexa

- Conjunctiva
  - pink eye
  - cul-de-sac
- Muscles
  - external

Anatomy: Eye and Ocular Adnexa

- Lacrimal gland
- Glaucoma
  - intraocular pressure
- Refraction
- 20/20
Anatomy: Ear and Auditory System

• Otolaryngology
• Otolaryngologists – ENTs
• Otoscope
• External ear
  -tragus
  -auricle or pinna

Anatomy: Ear and Auditory System

• Middle ear
  -Tympanic membrane
  -Ossicles – malleus, incus, stapes
  -Eustachian tube
• Oval window
Anatomy: Ear and Auditory System

Inner ear
- Labyrinth
- Membranous labyrinth – hair cells
- Vibrations into nerve impulse
- Cochlea, Vestibule, Semicircular canal
- Balance – utricle, saccule
- Oval window, round window

ICD-9-CM

- Alphabetic index; Tabular List
- Disorders of the Eye and Adnexa (360-379)
- Diseases of the Ear and Mastoid Process (380-389)
- Table of Neoplasms
Eye and Ocular Adnexa

- Disorders of the globe (360)
- Retinal detachments and defects (361)
- Other retinal disorders (362)
- Diabetic retinopathy (362.0x)

Eye and Ocular Adnexa

- Glaucoma (365)
  - intraocular pressure
  - congenital (743.2x)
  - angle – reflection of iris joins cornea
- Cataract (366)
  - congenital (743.3x)
Eye and Ocular Adnexa

• Disorders of refraction and accommodation (367)
  - Myopia (367.1)
  - Astigmatism (367.2x)
• Visual disturbances (368)
  - Diplopia (368.2) “double vision”

Eye and Ocular Adnexa

• Blindness and low vision (369)
  - visual impairment
  - visual disability
  - visual handicap
• ICD-9-CM Defined Levels of Visual Impairment - Table
Eye and Ocular Adnexa

• Keratitis (370)
• Corneal opacity and other disorders of cornea (371)
• Disorders of conjunctiva (372)
• Inflammation of eyelids (373)
• Other disorders of eyelids (374)
  -Nystagmus

Ear and Mastoid Process

• Diseases of the Ear and Mastoid Process (380-389)
• Anatomy of ear
  -external
  -middle
  -internal
• Infectious disease
Ear and Mastoid Process

- Table of Neoplasms
  - acoustic neuroma, vestibular schwannoma (225.1)
- Injury and Poisoning chapter
- Disorders of external ear (380)
  - infective otitis externa (380.1x)
  - Impacted cerumen (380.4)

Ear and Mastoid Process

- Nonsuppurative otitis media and Eustachian tube disorders (381)
  - acute (381.0x)
  - chronic (381.1x)
- Mastoiditis and related conditions (383)
Ear and Mastoid Process

- Other disorders of tympanic membrane (384)
  - Perf. of tympanic membrane (384.2x)
- Vertiginous syndromes and other disorders of vestibular system (386)
  - Vertigo
- Otosclerosis (387)
  - Tinnitus (388.3)

Ear and Mastoid Process

- Hearing loss (389)
  - Conductive hearing loss (389.0x)
  - Sensorineural hearing loss (389.1x)
  - Mixed conductive and sensorineural hearing loss (389.2x)
CPT®: Eye and Ocular Adnexa

Eye and Ocular Adnexa (65091-68899)

- Laser Surgery
  - Laser is short for: light amplification stimulated emission of radiation
    - Carbon Dioxide
    - Nd:Yag
    - Argon

CPT®: Eye and Ocular Adnexa

- Eyeball (65091-65290)
  - Evisceration (65091-65093)
  - Evisceration (65101-65105)
  - Enucleation (65110-65114)

- Secondary Implant(s) Procedures (65125-65175)
CPT®: Eye and Ocular Adnexa

- Removal of Foreign Body (65205-65265)
- Anterior Segment (65400-66999)
  - Cornea (65400-65782)
    Opaque and opacity
- Removal or Destruction (65430-65600)
- Keratoplasty (65710-65757)

CPT®: Eye and Ocular Adnexa

Anterior Chamber (65800-66030)
- Incision (65800-65880)
- Goniotomy (65820)
- Trabeculotomy ab externo (65850)
  - Schlemm’s canal
- Anterior Sclera (66130-66250)
  - Excision of lesion, sclera (66130)
CPT®: Eye and Ocular Adnexa

- Iris, Ciliary body (66500-66770)
- Iridotomy (66761-66770)
- Lens (66820-66940)
  - cataracts
- Intraocular Lens Procedures (66982-66986)

CPT®: Eye and Ocular Adnexa

Posterior Segment (67005-67999)
- Vitreous (67005-67043)
- Implantation of intravitreal drug delivery system (67027)
- Retina or Choroid (67101-67229)
- Posterior Sclera (67250-67225)
CPT®: Eye and Ocular Adnexa

- Ocular Adnexa (67229-67999)
  - strabismus
    - horizontal (67311-67312)
    - vertical (67314-67316)
    - transposition (67320)
- Orbit (67400-67599)

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CPT®: Eye and Ocular Adnexa

Eyelids (67700-67999)
  - Hordeolum externum
  - Excision of chalazion; single (67800)
  - Repair of brow ptosis (67900)
  - Blepharoptosis (67901-67908)
CPT®: Eye and Ocular Adnexa

- Conjunctiva (68020-68899)
  - conjunctivoplasty
- Lacrimal System (68400-68899)
- Excision of lacrimal sac (68520) (dacryocystectomy)

CPT®: Eye and Ocular Adnexa

Medicine section

Ophthalmology (92002-92499)
  - General Ophthalmology Services (92002-92014)
  - Special Ophthalmological Services
  - Contact Lens Services
  - Spectacle Services (Including Prosthesis for Aphakia)
CPT®: Eye and Ocular Adnexa
Medicine section

- Special Ophthalmological Services (92015-92140)
- Determination of refractive state (92015)
- Ophthalmoscopy (9225-92260)
  - direct
  - indirect

CPT®: Eye and Ocular Adnexa
Medicine section

- Contact Lens Services (92310-92326)

- Spectacle Services (Including Prosthesis for Aphakia) (92340-92371)
  - aphakia (92353-92358)
CPT®: Auditory System

Auditory System (69000-69979)

• Removal foreign body from external auditory canal (69200-69205)
  - both ears (69210)

CPT®: Auditory System

Middle Ear (69400-69799)

• Tympanostomy (69433-69436)
• Mastoidectomy; complete (69502)
  - modified radical (69505)
  - radical (69511)
• Tympanoplasty (69635-69646)
CPT®: Auditory System

Inner Ear (69801-69949)
- Labyrinthectomy (69905)
- Temporal Bone, Middle Fossa Approach (69950-69979)
- Microsurgery

CPT®: Auditory System

Medicine Section

- Special Otorhinolaryngologic Services (92592-92700)
- Otolaryngologic examination under general anesthesia (92502)
- Vestibular Function Tests (92531-92548)
- Audiologic Function Tests with Medical Diagnostic Evaluation (92559-92597)
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Medicine Section

• Evaluative and Therapeutic Services (92601-92633)
• Cochlear implants

HCPCS and Modifiers

HCPCS Level II
- injectable or implantable drug
- prostheses, visual aids, contact lenses, glasses and hearing aids

Modifiers
-50 Bilateral procedure
-RT, LT