ICD–10–CM
Are You Prepared? Part VI
Refraction, Muscles, Visual Disturbances

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With contributions from Doug Morrow OD & Harvey Richman OD
Overview

This webinar will provide an introduction to ICD–10–CM coding changes and begin your preparation.

There will be more information coming in the next few months to further prepare you for the change to ICD–10–CM.
Are You Well Connected??

Notice:
To hear the audio portion of this webinar–

Connect through your computer with a headset or through your telephone

If you cannot get connected, you may contact Erin Nichols AOA TPC staff member, for assistance:

EMNNichols@AOA.org
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Recorded presentation and webinar course handouts will be available at: [http://www.aoa.org/coding](http://www.aoa.org/coding)

Click ICD–10 on the right hand column and it will take you to all the available resources for ICD–10

Other helpful resources will soon be available as well
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• AT THE END OF THE PRESENTATION:
Questions will be answered at the end of the presentation, as time permits.
To ask a question that pertains to this presentation:
Click on the red arrow to maximize the webinar control panel and expand the ‘Questions’ section.
Type inquiries in the dialog box and press ‘Send’.

• AFTER THE WEBINAR
Please submit questions using the online submission form on www.aoa.org/coding.
AOA Third Party Center Coding Experts

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Outline for ICD–10–CM Webinars
Are you prepared? 10 Part Series

January 10, 2014  Introduction to ICD–10–CM Coding System
February 14, 2014  ICD–10–CM More Basics
March 21, 2014    ICD–10–CM Coding: Lids to Lens
April 11, 2014    ICD–10–CM Coding: Posterior Segment
May 23, 2014      ICD–10–CM Coding: Glaucoma–Optic Pathways
June 20, 2014     ICD–10–CM Coding: Refraction, Muscles, Disturbances
July 11, 2014     ICD–10–CM Coding: Diabetes and other systemic disease
August 8, 2014    ICD–10–CM Coding: Common Ocular Infection and Injury
September 5, 2014  ICD–10–CM Coding: Post-procedural Complications
October 3, 2014    ICD–10–CM Coding: Odds and Ends and Recap

All webinars are recorded and will be posted to the AOA Eyelearn site within 3–5 business days following the live presentation.
Topics for Tonight

Refraction, Muscles, Visual Disturbances

• HUGE ICD–10–CM news
• Brief Overview of Chapter 7
• Chapter 7 General Inclusions and Exclusions– Details
• Chapter 7 Details
• H49–H52→Disorders of ocular muscles, binocular movement, accommodation and refraction
• H53–H54→Visual disturbances and blindness
• Questions
• Resources
• Self Assessment Review Questions

With specific coding examples sprinkled throughout presentation
ICD-10-CM News!!

• Congress passes a one year delay in the implementation of ICD-10-CM
• What does this mean?

• AOA is still pushing you to prepare for this change
• Gives providers more time to prepare
• TAKE THE TIME NOW TO LEARN THIS NEW SYSTEM
• Breathing room for all involved
• Still need to PREPARE

• New date October 1, 2015
Tabular List Chapter 7 Categories
(Slightly different list than in very first webinar– Official USA Version for ICD–10–CM)

H00–H05 → Disorders of eyelid, lacrimal system, orbit
H10–H11 → Disorders of conjunctiva
H15–H22 → Disorders of sclera, cornea, iris, ciliary body
H25–H28 → Disorders of lens
H30–H36 → Disorders of choroid and retina
H40–H42 → Glaucoma
H43–H44 → Disorders of vitreous body and globe
H46–H47 → Disorders of optic nerve & visual pathways
H49–H52 → Disorders of ocular muscles, binocular movement, accommodation and refraction
H53–H54 → Visual disturbances and blindness
H55–H57 → Other disorders of eye and adnexa
H59 → Intraoperative and postprocedural complications and disorders
Chapter 7 Diseases of the eye and adnexa (H00–H59) Overall Notes and Exclusions

**Note:** Use an external cause code following the code for the eye condition, if applicable, to identify the cause of the eye condition

**Excludes2:**

- Certain conditions originating in the perinatal period (P04–P96)
- Certain infectious and parasitic diseases (A00–B99)
- Complications of pregnancy, childbirth and the puerperium (O00–O9A)
- Congenital malformations, deformations, and chromosomal abnormalities (Q00–Q99)
- Diabetes mellitus related eye conditions (E09.3–, E10.3–, E11.3–, E13.3–)
- Endocrine, nutritional and metabolic diseases (E00–E88)
- Injury (trauma) of eye and orbit (S05.–)
- Injury, poisoning and certain other consequences of external causes (S00–T88)
- Neoplasms (C00–D49)
- Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00–R94)
- Syphilis related eye disorders (A50.01, A50.3–, A51.43, A52.71)
Definition Reminder

• **Excludes1:**

  Excludes 1 note is pure excludes note—meaning “NOT CODED HERE!”

  Code excluded **should never be used at same time** as code above Excludes1 note

  Excludes1 used when **two conditions cannot occur together**

  (Example: congenital versus acquired form of same condition)

• **Excludes2**

  Excludes2 note means “Not included here”

  Excluded condition is not part of condition represented by code

  BUT patient may have both conditions at the same time

  Excludes2 used when it is **acceptable to use both code and excluded code together, when applicable**
Disorders of ocular muscles, binocular movement, accommodation and refraction (H49-H52)

- **H 49 Paralytic Strabismus**
  - Nerve Palsies
  - External Ophthalmoplegia
- **H50 Other Strabismus**
  - Tropia
  - Phorias
- **H 51 Convergence defects**
  - Insufficiency
  - Excess
  - Internal Ophthalmoplegia
- **H52 Refraction and Accommodation**
  - Refractive Errors
  - Accommodative Disorders
Disorders of ocular muscles, binocular movement, accommodation and refraction (H49-H52)

Excludes1 and Excludes2 Notes

**Excludes2:** nystagmus and other irregular eye movements (H55)

**H49** Paralytic strabismus

- Excludes2: internal ophthalmoplegia (H52.51-)
- internuclear ophthalmoplegia (H51.2-)
- progressive supranuclear ophthalmoplegia (G23.1)

**H50.0** Esotropia

- Convergent concomitant strabismus

- Excludes1: intermittent esotropia (H50.31-, H50.32)

**H50.1** Exotropia

- Divergent concomitant strabismus

- Excludes1: intermittent exotropia (H50.33-, H50.34)

**Chapter Heading Excludes Note**

**Can code both if appropriate**

**Intermittent Eso and Exo NOT coded here**
Paralytic Strabismus Example:
External Ophthalmoplegia → Alphabetic Index

Strabismus (congenital) (nonparalytic) H50.9
- concomitant H50.40
- - convergent — see Strabismus, convergent concomitant
- - divergent — see Strabismus, divergent concomitant
- convergent concomitant H50.00
- - accommodative component H50.43
- - alternating H50.05
...
- paralytic H49.9
- - abducens nerve H49.2-
- - fourth nerve H49.1-
- - Kearns-Sayre syndrome H49.81-
- - ophthalmoplegia (external)
- - - - progressive H49.4-
- - - - with pigmentary retinopathy H49.81-
- - - total H49.3-

Note that this heading is for Non paralytic
We want paralytic
External ophthalmoplegia further down in listing
Go to H49.4- in tabular listing
### Paralytic Strabismus Example: External Ophthalmoplegia → Tabular Listing

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H49.4</td>
<td>Progressive external ophthalmoplegia</td>
</tr>
<tr>
<td></td>
<td><em>Excludes</em>: Kearns-Sayre syndrome (H49.81-)</td>
</tr>
<tr>
<td>H49.40</td>
<td>Progressive external ophthalmoplegia, unspecified eye</td>
</tr>
<tr>
<td>H49.41</td>
<td>Progressive external ophthalmoplegia, right eye</td>
</tr>
<tr>
<td>H49.42</td>
<td>Progressive external ophthalmoplegia, left eye</td>
</tr>
<tr>
<td>H49.43</td>
<td>Progressive external ophthalmoplegia, bilateral</td>
</tr>
<tr>
<td>H49.88</td>
<td>Other paralytic strabismus</td>
</tr>
<tr>
<td></td>
<td>External ophthalmoplegia NOS</td>
</tr>
<tr>
<td>H49.881</td>
<td>Other paralytic strabismus, right eye</td>
</tr>
<tr>
<td>H49.882</td>
<td>Other paralytic strabismus, left eye</td>
</tr>
<tr>
<td>H49.883</td>
<td>Other paralytic strabismus, bilateral</td>
</tr>
<tr>
<td>H49.889</td>
<td>Other paralytic strabismus, unspecified eye</td>
</tr>
</tbody>
</table>

*Lists as “Progressive” but what is NOT progressive or do not know?*

*READ all code definitions to ensure you are choosing the correct code*
Convergence Insufficiency Example
Alphabetic Index

Conus (congenital) (any type) Q14.8
- cornea —see Keratoconus
- medullaris syndrome G95.81
Conversion hysteria, neurosis or reaction F44.9
Converter, tuberculosis (test reaction) R76.11

Insufficiency, insufficient
- accommodation, old age H52.4

- convergence H51.11
- coronary (acute or subacute) I24.8
- - chronic or with a stated duration of over 4 weeks I25.89
- corticoadrenal E27.40
- - primary E27.1
- dietary E63.9
- divergence H51.8

Convergence Insufficiency NOT under convergence

Go to Section H51.11 in Tabular Listing
Convergence Insufficiency Example
Tabular Listing

H51  Other disorders of binocular movement
    H51.0  Palsy (spasm) of conjugate gaze
    H51.1  Convergence insufficiency and excess
          H51.11  Convergence insufficiency
          H51.12  Convergence excess

Final code is H51.11
Note: Not per eye since this is a binocular condition only
Refractive Diagnoses
Alphabetic Index

Astigmatism (compound) (congenital) H52.20-
- irregular H52.21-
- regular H52.22-

Hypermetropia (congenital) H52.0-

Myopia (axial) (congenital) H52.1-
- degenerative (malignant) H44.2-
- malignant H44.2-
- pernicious H44.2-
- progressive high (degenerative) H44.2-

Presbyopia H52.4

 Majority under H52.- section

Note: Other Myopias are under H44.- section
Refractive Diagnoses
Tabular Listing

H49-H52 Disorders of ocular muscles, binocular movement, accommodation and refraction

H52 Disorders of refraction and accommodation

H52.0 Hypermetropia
   H52.00 Hypermetropia, unspecified eye
   H52.01 Hypermetropia, right eye
   H52.02 Hypermetropia, left eye
   H52.03 Hypermetropia, bilateral

H52.1 Myopia
   Excludes: degenerative myopia (H44.2-)
   H52.10 Myopia, unspecified eye
   H52.11 Myopia, right eye
   H52.12 Myopia, left eye
   H52.13 Myopia, bilateral

H52.4 Presbyopia

Myopia and hyperopia: OD OS or OU
Presbyopia: Not per eye

H52.4
Refractive Diagnoses
Tabular Listing

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H52.2</td>
<td>Astigmatism</td>
</tr>
<tr>
<td>H52.20</td>
<td>Unspecified astigmatism</td>
</tr>
<tr>
<td>H52.201</td>
<td>Unspecified astigmatism, right eye</td>
</tr>
<tr>
<td>H52.202</td>
<td>Unspecified astigmatism, left eye</td>
</tr>
<tr>
<td>H52.203</td>
<td>Unspecified astigmatism, bilateral</td>
</tr>
<tr>
<td>H52.209</td>
<td>Unspecified astigmatism, unspecified eye</td>
</tr>
<tr>
<td>H52.21</td>
<td>Irregular astigmatism</td>
</tr>
<tr>
<td>H52.211</td>
<td>Irregular astigmatism, right eye</td>
</tr>
<tr>
<td>H52.212</td>
<td>Irregular astigmatism, left eye</td>
</tr>
<tr>
<td>H52.213</td>
<td>Irregular astigmatism, bilateral</td>
</tr>
<tr>
<td>H52.219</td>
<td>Irregular astigmatism, unspecified eye</td>
</tr>
<tr>
<td>H52.22</td>
<td>Regular astigmatism</td>
</tr>
<tr>
<td>H52.221</td>
<td>Regular astigmatism, right eye</td>
</tr>
<tr>
<td>H52.222</td>
<td>Regular astigmatism, left eye</td>
</tr>
<tr>
<td>H52.223</td>
<td>Regular astigmatism, bilateral</td>
</tr>
<tr>
<td>H52.229</td>
<td>Regular astigmatism, unspecified eye</td>
</tr>
</tbody>
</table>

Astigmatism is more complicated
H53 Excludes1 and Excludes2 Notes

Visual disturbances and blindness (H53-H54)

H53.0 Amblyopia ex anopsia

   Excludes1: amblyopia due to vitamin A deficiency (E50.5)

H53.03 Strabismic amblyopia

   Excludes1: strabismus (H50.-)

H53.1 Subjective visual disturbances

   Excludes1: subjective visual disturbances due to vitamin A deficiency (E50.5)
   visual hallucinations (R44.1)

H53.12 Transient visual loss

   Scintillating scotoma

   Excludes1: amaurosis fugax (G45.3-)
   transient retinal artery occlusion (H34.0-)

H53.5 Color vision deficiencies

   Color blindness

   Excludes2: day blindness (H53.11)

H53.6 Night blindness

   Excludes1: night blindness due to vitamin A deficiency (E50.5)
Refractive Amblyopia OD Example

Alphabetic Index

Amblyopia (congenital) (ex anopsia) (partial) (suppression) H53.00-
- anisometropic — see Amblyopia, refractive
- deprivation H53.01-
- hysterical F44.6
- nocturnal — see also Blindness, night
- - vitamin A deficiency E50.5
- refractive H53.02-
- strabismic H53.03-
- tobacco H53.8
- toxic NEC H53.8
- uremic — see Uremia

First note terms included in code

This one is easy. Under Amblyopia
Go to H53.02- in Tabular Listing
Remember “ – “ at end of code
number indicates there should be
more digits to be a code!
Refractive Amblyopia OD
Tabular Listing

H53  Visual disturbances
    H53.0  Amblyopia ex anopsia
    Excludes1: amblyopia due to vitamin A deficiency (E50.5)
    H53.02  Refractive amblyopia
            H53.021  Refractive amblyopia, right eye
            H53.022  Refractive amblyopia, left eye
            H53.023  Refractive amblyopia, bilateral
            H53.029  Refractive amblyopia, unspecified eye

Review Excludes Notes for Section- none apply
Final Code is H53.021

American Optometric Association
Amblyopia Example
Alphabetic Index

Amblyopia (congenital) (ex anopsia) (partial) (suppression)
H53.00-
- anisometropic —see Amblyopia, refractive
- deprivation H53.01-
- hysterical F44.6
- nocturnal —see also Blindness, night
- - vitamin A deficiency E50.5
- refractive H53.02-
- strabismic H53.03-
- tobacco H53.8
- toxic NEC H53.8
- uremic —see Uremia

Note:
Toxic Amblyopia Code would be used if did not know exact source of toxicity creating condition
H53.8 is “Other Visual Disturbances”
Legal Blindness Diagnosis
Alphabetical Index

Blindness (acquired) (congenital) (both eyes) H54.0
- blast S05.8X-
- color —see Deficiency, color vision
- concussion S05.8X-
- cortical H47.619
- - left brain H47.612
- - right brain H47.611
- day H53.11
- due to injury (current episode) S05.9-
- - sequelae -- code to injury with seventh character S
- eclipse (total) —see Retinopathy, solar
- emotional (hysterical) F44.6
- face H53.16
- hysterical F44.6
- legal (both eyes) (USA definition) H54.8
H54 Excludes1 and Excludes2 Notes

Visual disturbances and blindness (H53-H54)

H54  Blindness and low vision

Note: For definition of visual impairment categories see table below.

Code first any associated underlying cause of the blindness.

Excludes1: amaurosis fugax (G45.3)

H54.8  Legal blindness, as defined in USA

Blindness NOS according to USA definition.

Excludes1: legal blindness with specification of impairment level (H54.0-H54.7)

Note: The table below gives a classification of severity of visual impairment recommended by a WHO Study Group on the Prevention of Blindness, Geneva, 6-10 November 1972.

The term 'low vision' in category H54 comprises categories 1 and 2 of the table, the term 'blindness' categories 3, 4 and 5, and the term 'unqualified visual loss' category 9.

If the extent of the visual field is taken into account, patients with a field no greater than 10 but greater than 5 around central fixation should be placed in category 3 and patients with a field no greater than 5 around central fixation should be placed in category 4, even if the central acuity is not impaired.

IMPORTANT NOTE: Currently→ official table in ICD-10-CM file is INCORRECT.
The first column is actually the rest of the second column and does not have the Category numbers
<table>
<thead>
<tr>
<th>Category of Visual Impairment</th>
<th>Visual Acuity with Best Possible Correction</th>
<th>Minimum equal to or better than</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6/18</td>
<td>6/60</td>
</tr>
<tr>
<td></td>
<td>3/10 (0.30)</td>
<td>1/10 (0.10)</td>
</tr>
<tr>
<td></td>
<td>20/70</td>
<td>20/200</td>
</tr>
<tr>
<td>2</td>
<td>6/60</td>
<td>3/60</td>
</tr>
<tr>
<td></td>
<td>1/10 (0.10)</td>
<td>1/20 (0.50)</td>
</tr>
<tr>
<td></td>
<td>20/200</td>
<td>20/400</td>
</tr>
<tr>
<td>3</td>
<td>3/60</td>
<td>1/60 (CF at 1 meter)</td>
</tr>
<tr>
<td></td>
<td>1/20 (0.05)</td>
<td>1/50 (0.02)</td>
</tr>
<tr>
<td></td>
<td>20/400</td>
<td>5/300 (20/1200)</td>
</tr>
<tr>
<td>4</td>
<td>1/60 (CF at 1 meter)</td>
<td>Light perception</td>
</tr>
<tr>
<td></td>
<td>1/50 (0.02)</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>No light perception</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Undetermined/unspecified</td>
<td></td>
</tr>
</tbody>
</table>

CF = central fixation

The term **low vision** in category H54 comprises categories 1 and 2 of the table, the term **blindness** categories 3, 4, and 5, and the term **unqualified visual loss** category 9.

If the extent of the visual field is taken into account, patients with a field no greater than 10 degrees but greater than 5 around central fixation should be placed in category 3; patients with a field no greater than 5 around central fixation should be placed in category 4, even if the central acuity is not impaired.
Legal Blindness Diagnosis
Tabular Listing

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H54.1</td>
<td>Blindness, one eye, low vision other eye</td>
</tr>
<tr>
<td></td>
<td>Visual impairment categories 3, 4, 5 in one eye, with categories 1 or 2 in the other eye.</td>
</tr>
<tr>
<td></td>
<td>H54.10  Blindness, one eye, low vision other eye, unspecified eyes</td>
</tr>
<tr>
<td></td>
<td>H54.11  Blindness, right eye, low vision left eye</td>
</tr>
<tr>
<td></td>
<td>H54.12  Blindness, left eye, low vision right eye</td>
</tr>
<tr>
<td>H54.2</td>
<td>Low vision, both eyes</td>
</tr>
<tr>
<td></td>
<td>Visual impairment categories 1 or 2 in both eyes.</td>
</tr>
<tr>
<td>H54.3</td>
<td>Unqualified visual loss, both eyes</td>
</tr>
<tr>
<td></td>
<td>Visual impairment category 9 in both eyes.</td>
</tr>
<tr>
<td>H54.4</td>
<td>Blindness, one eye</td>
</tr>
<tr>
<td></td>
<td>Visual impairment categories 3, 4, 5 in one eye [normal vision in other eye].</td>
</tr>
<tr>
<td></td>
<td>H54.40  Blindness, one eye, unspecified eye</td>
</tr>
<tr>
<td></td>
<td>H54.41  Blindness, right eye, normal vision left eye</td>
</tr>
<tr>
<td></td>
<td>H54.42  Blindness, left eye, normal vision right eye</td>
</tr>
<tr>
<td>H54.5</td>
<td>Low vision, one eye</td>
</tr>
<tr>
<td></td>
<td>Visual impairment categories 1 or 2 in one eye [normal vision in other eye].</td>
</tr>
<tr>
<td></td>
<td>H54.50  Low vision, one eye, unspecified eye</td>
</tr>
<tr>
<td></td>
<td>H54.51  Low vision, right eye, normal vision left eye</td>
</tr>
<tr>
<td></td>
<td>H54.52  Low vision, left eye, normal vision right eye</td>
</tr>
<tr>
<td>H54.6</td>
<td>Unqualified visual loss, one eye</td>
</tr>
<tr>
<td></td>
<td>Visual impairment category 9 in one eye [normal vision in other eye].</td>
</tr>
<tr>
<td></td>
<td>H54.60  Unqualified visual loss, one eye, unspecified</td>
</tr>
<tr>
<td></td>
<td>H54.61  Unqualified visual loss, right eye, normal vision left eye</td>
</tr>
<tr>
<td></td>
<td>H54.62  Unqualified visual loss, left eye, normal vision right eye</td>
</tr>
<tr>
<td>H54.7</td>
<td>Unspecified visual loss</td>
</tr>
<tr>
<td></td>
<td>Visual impairment category 9 NOS</td>
</tr>
</tbody>
</table>
Resources

CDC ICD–10–CM Official USA site
http://www.cdc.gov/nchs/icd/icd10cm.htm

2014 release of ICD-10-CM at bottom of page has all the downloads
  ICD-10-CM Guidelines  [PDF - 512 KB]
  ICD-10-CM PDF Format
  ICD-10-CM List of codes and Descriptions (updated 7/3/2013)

CMS ICD–10–CM information

American Optometric Association
www.aoa.org/coding

X World Health X
Use for general training only
http://apps.who.int/classifications/apps/icd/icd10training
ICD-10-CM 2015 Release

• Now available on the CDC website-
  2015 release of ICD-10-CM

• Note: This replaces the FY 2014 release.

• No changes to the FY 2015 ICD-10-CM
  Tabular Listing or Index files
QUESTIONS?

If you have a question after today please submit via submission form on
www.aoa.org/coding
Review Questions

Answers will be posted on ICD–10–CM AOA Page

1. You must use a table to determine the category of visual impairment from ICD-10-CM Tabular Listing. The table in the current (June 2015) version of ICD-10-CM is correct.
   a) True
   b) False

2. The correct diagnosis for Internal ophthalmoplegia of the right eye is:
   a) Is found in the H49- section of the tabular listing
   b) Is H49.4
   c) Is H51.21
   d) Is H51.29
Review Questions
Answers will be posted on ICD–10–CM AOA Page

3. The code for pseudophakia is found under which section
   a) H52 Disorders of Refractive and Accommodation
   b) H25 Disorders of the Lens
   c) Z96 Presence of other functional implants
   d) H56 Other disorders of Eye and Adnexa

4. H50.1 section for Exotropia has the following note
   a) Excludes 2 note for intermittent exotropia
   b) Excludes 1 note for intermittent exotropia
   c) Has no Excludes1 and Excludes2 notes
   d) Has both Excludes1 and Excludes2 notes
5. Color vision deficiencies are divided into different types in the Tabular Listing of ICD-10-CM
   a) True
   b) False

6. The correct code(s) choices for presbyopia are as follows:
   a) H52.40, H52.41, H52.42, H52.43
   b) H52.41, H53.42, H52.43, H52.49
   c) H52.4
   d) None of the above
THANK YOU