ICD·10·CM
Simplifying the Complex

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I. Introduction
A. ICD·10·CM will be implemented on 10/1/2014
   1. Major (total) revision to the codes themselves
   2. Significant revision to the organization of the codes
   3. Extensive expansion of coding capabilities
   4. Significantly enhanced specificity
B. Purpose of this course
   1. Review the necessity of the change to ICD·10·CM
   2. Explore all aspects of this new diagnostic coding system
      a. Compare what is the same with ICD·9·CM
      b. Compare where it is different and new
   3. Recommend steps to take to be prepared for 10/1/2014

The American Medical Association (AMA) estimates the cost of implementing ICD·10·CM ranges from $83,290 (three person practice) to more than $2.7 million.

C. The road to implementation has been a rocky one
   1. 1979: ICD·9·CM was adopted in the USA
   2. 1990: ICD·10 was first developed
   3. 1994: Came into use by WHO member states
   4. 1997: ICD·10·CM was first introduced in the US
   5. 2007: Proposed to the HHS for implementation on 10/1/2011 in 2007
   6. 1/2009: Recommended for implementation by the HHS Secretary with implementation on 10/1/2013
   7. 1/2009: The White House puts on hold any implementation
   8. 3/2009: The White House hold is lifted
   9. 2/2012: HHS requested a delay in implementation
   10. 8/2012: HHS announced the implementation is moved to October 1, 2014.
   11. 12/2012: The AMA petitioned CMS to permanently delay ICD·10·CM
      a. Cosigned by 80 more State Medical Associations and Professional Specialty Societies
      b. Including AAO and the ASCRS
   12. 2/2013: The request by the AMA was denied
   13. 5/2013: Several US Senators introduced a bill to halt implementation
   14. As of today, implementation is still set for 10/1/2014

D. Ownership
   1. ICD© is owned and copyrighted by the WHO
   2. WHO authorized the “Clinical Modification” for purposes of the United States Government
   3. ICD·9·CM
      a. Centers for Disease Control and Prevention (CDC)
      b. National Center for Health Statistics (NCHS)
      c. Coordination and Maintenance Committee
      d. American Hospital Association (AHA) – liaison between the government and public
E. Role of HIPAA

1. The Health Insurance Portability and Accountability Act was passed in 1996
   a. HIPAA amended Title XI of the Social Security Act
   b. This section was titled “Administrative Simplification”
   c. Herein are mandated standards applicable to:
      1) Health plans
      2) Healthcare clearinghouses
      3) Healthcare providers who transmit any information in electronic form in connection with a
         transaction for which the HHS Secretary has adopted a standard
   d. This section of HIPAA is where such standards are set
2. HIPAA stipulates the actual code set: ICD-9-CM or ICD-10-CM

II. The Need for ICD-10-CM

A. Problems with ICD-9-CM

1. Out of space
   a. ICD-9-CM has ~14,000 codes
   b. Additional codes are having to be assigned to inappropriate sections
2. Lack of specificity
3. Inadequate ability to monitor biosurveillance
4. Compatibility of data with other countries

B. ICD-10 vs. ICD-10-CM

1. “Clinical Modification” for use in the US
2. Greater specificity
3. Examples – See Appendix A

C. Goals of ICD-10-CM

1. Expand the capacity for new codes: ICD-10-CM will have ~69,000 codes and allow ~155,000 codes
2. Reorganize current diagnoses into better and current understanding of pathophysiology of disease
3. Allow greater levels of specificity
   a. Add laterality
   b. Provide greater detail on socioeconomic issues
      1) Family relationships
      2) Ambulatory care conditions
      3) Problems related to lifestyle
      4) Results of screening tests
   c. Add new post-procedural disorders
   d. Major expansion of injury codes
   e. Expand distinctions for ambulatory and managed care encounters
4. **Higher level of data gathering, for management and analysis**

III. What’s the same in ICD-10-CM?

A. General content

1. Tabular List
   a. Body system divisions
   b. Type of condition
2. Alphabetical Index
   a. Index to Disease Conditions
      1) Contains a Neoplasm Table
      2) Contains a Table of Drugs and Chemicals
   b. Index to External Causes of Injury
3. Procedure Codes – ICD-10-PCS (Procedure Coding System)
   a. Used in the hospital setting only
   b. Office/ASC procedures use CPT-4 (AMA)
B. Coding principles are the same
   1. Code to the highest degree of accuracy and completeness
      a. If a further subclassification is available use it
      b. The best code is the actual disease, if known
      c. The next best code is a symptom, if the diagnosis is not yet definitive
      d. The next best code is an “Other” code
         1) Known disease
         2) Without a specific code
         3) “Wastebasket” code
      e. The least best code is an “Unspecified” code...but it is still valid
         1) Insufficient information to know
         2) While valid, try to avoid – some carriers will not pay
   2. Do not code “probable”, “suspected”, “questionable”, or “rule out” conditions until they are established
   3. Do not code conditions that no longer exist
      a. It is not always clear when a condition ceases to exist
      b. How do you code a follow up visit when the condition is now resolved?
      c. Code the reason that best justifies the encounter: “Medical Necessity”
   4. Remember: proper coding rules may be different than proper reporting rules
      a. Coding rules are set in ICD-10-CM
      b. Reporting rules can vary from carrier to carrier
      c. Always follow the carrier’s instructions when they differ from defined coding rules
   5. Avoid using refractive codes for medical conditions
   6. Always match the appropriate diagnosis (ICD-10-CM) with the corresponding procedure (CPT-4)
   7. Syndromes
      a. Unless the syndrome is specifically listed, code the manifestation of the syndrome
      b. If there are multiple manifestations, pick the most pertinent to justify medical necessity

<table>
<thead>
<tr>
<th>Ocular Ischemia Syndrome</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Causes</strong></td>
</tr>
<tr>
<td>Impaired internal and external carotid circulation</td>
</tr>
<tr>
<td>Reduced circulation to the whole eye</td>
</tr>
<tr>
<td><strong>Findings</strong></td>
</tr>
<tr>
<td>retinal microaneurysms ........ H35.04- Retinal micro-aneurysms NOS</td>
</tr>
<tr>
<td>retinal hemorrhage ........... H35.6- Retinal hemorrhage</td>
</tr>
<tr>
<td>retinal A/V shunts ............. H35.09 Other intraretinal microvascular abnormalities</td>
</tr>
<tr>
<td>iris neovascularization ......... H21.1x- Other vascular disorders of iris and ciliary body</td>
</tr>
<tr>
<td>neovascular glaucoma .......... H40.5- Glaucoma secondary to other eye disorders</td>
</tr>
</tbody>
</table>

C. Abbreviations are mostly the same
   1. NEC – “Not elsewhere classifiable”
      a. Found in the Alphabatical Index
      b. Equivalent to “Other” or “Other specified” in the Tabular List

<table>
<thead>
<tr>
<th>Anomaly, anomalous Q89.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>pupil Q13.2</td>
</tr>
<tr>
<td>function H57.00</td>
</tr>
<tr>
<td>specified type NEC H57.09</td>
</tr>
<tr>
<td>H57 Other disorders of eye and adnexa</td>
</tr>
<tr>
<td>H57.0 Anomalies of pupillary function</td>
</tr>
<tr>
<td>H57.09 Other anomalies of pupillary function</td>
</tr>
</tbody>
</table>
2. NOS – “Not otherwise specified”
   a. Found mostly in the Alphabetical Index
   b. Equivalent to “Unspecified” in the Tabular List

   **Conjunctivitis (staphylococcal) (streptococcal) NOS H10.9**

<table>
<thead>
<tr>
<th>H10</th>
<th>Conjunctivitis</th>
</tr>
</thead>
<tbody>
<tr>
<td>H10.9</td>
<td>Unspecified conjunctivitis</td>
</tr>
</tbody>
</table>

D. Punctuation
1. Brackets “[ ]”
   a. Tabular List – synonyms, alternative wording, explanatory phrases
   b. “Nonessential modifier”
   c. The list of terms is not necessarily all inclusive

   **H11.13 Conjunctival pigmentation**
   **Conjunctival argyrosis [argyria]**

2. Parentheses “( )”
   a. Supplementary words that may be present or absent without affecting the code
   b. “Nonessential modifier”
   c. The list of terms is not necessarily all inclusive

   **H21.231 Degeneration of iris (pigmentary), right eye**
   **Translucency of iris**

3. Colon “:”
   a. Found in the Tabular List
   b. Used after an incomplete term that needs one or more modifiers to make it assignable to a given category
   c. The list of terms is not necessarily all inclusive

   **H28 Cataract in diseases classified elsewhere**
   **Code first underlying disease, such as:**
   - Hypoparathyroidism (E20.-)
   - Myotonia (G71.1-)
   - Myxedema (E03.-)
   - Protein-calorie malnutrition (E40-E46)

4. Comma “,”
   a. The words following a comma must be present for the code to be used.
   b. “Essential modifier”

   **H31.32 Choroidal rupture**
   **H31.321 Choroidal rupture, right eye**
   **H31.322 Choroidal rupture, left eye**
   **H31.323 Choroidal rupture, bilateral**
   **H31.329 Choroidal rupture, unspecified eye**

E. Terminology
1. “And” - the term “And” should be interpreted to mean either “and” or “or” (i.e. “and/or”)
   **H26.0 Infantile and juvenile cataract**

2. “With”
   a. Alphabetical Index the word “with” is sequenced immediately following the main term and not in alphabetical order
   b. You will find this far more frequently in the ICD-10-CM code set with the addition of combination codes

   **Hypertension, hypertensive**
   with
   heart involvement
ICD·10·CM: Simplifying the Complex

3. “—see”
   a. Found in the Alphabetical Index
   b. Referenced term is not the “preferred” term
   c. No coding options are given
   d. This is a mandatory instruction

   **Ablatio, ablation**
   retinæ — see Detachment, retina

4. “—see also”
   a. Found in the Alphabetical Index
   b. Another term that *may* also be referenced
   c. Coding option may or may not be provided

   **Proptosis (ocular) — see also Exophthalmos**
   thyroid — see Hyperthyroidism, with goiter

   **Abnormal**
   hemoglobin (disease) (~see also Disease, hemoglobin) D58.2–

5. “Includes”
   a. Usually found at the section level or the category level (3 digit code level)
   b. Applies to everything at that level and below
   c. Provides examples of what is included in the entire category
   d. The list is not necessarily all inclusive

   **H44 Disorders of globe**
   *Includes:*
   disorders affecting multiple structures of eye

F. Etiology / Manifestation / Sequencing instruction

1. The concept
   a. Some diseases have an underlying condition with multiple systemic manifestations
   b. ICD-10-CM conventions require both the underlying condition and the manifestation be coded
      1) The underlying condition or etiology is always coded first (primary code)
      2) The manifestation of the condition is always coded second (secondary code)

2. “Code first”
   a. This instruction is found with any *manifestation* of an underlying condition
   b. The code where the “Code first” instruction is found is always a *secondary code*
   c. Directions are given for where to find the underlying condition
   d. The suggested list may not be all inclusive

   **H28 Cataract in diseases classified elsewhere**
   *Code first underlying disease, such as:*
   - hypoparathyroidism (E20.-)
   - myotonia (G71.1-)
   - myxedema (E03.-)
   - protein-calorie malnutrition (E40-E46)

3. “Use additional code”
   a. This instruction is found with the underlying condition (etiology)
   b. The condition with the “Use additional code” instruction is always the primary code
c. Directions are given for where to look for the manifestations of the underlying condition
d. An addition code should be used to provide a more complete description

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H20.1</td>
<td>Chronic iridocyclitis</td>
</tr>
<tr>
<td></td>
<td>Use additional code for any associated cataract (H26.21-)</td>
</tr>
<tr>
<td>H26.1</td>
<td>Traumatic cataract</td>
</tr>
<tr>
<td></td>
<td>Use additional code (Chapter 20) to identify external cause</td>
</tr>
</tbody>
</table>

4. “Code also”
   a. “Code also” indicates that two codes may be required to fully describe a condition
   b. This note allows discretion on sequencing

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H18.03</td>
<td>Corneal deposits in metabolic disorders</td>
</tr>
<tr>
<td></td>
<td>Code also associated metabolic disorder</td>
</tr>
</tbody>
</table>

5. A caveat
   a. These are mandatory coding instructions
   b. They may or may not be mandatory for reporting to the carrier

G. Assigning codes not found in ICD-10-CM, either in the Tabular List or the Alphabetical Index involves:
   1. Understanding the pathophysiology of the disease
   2. Knowing the organization of ICD-10-CM and where to look
   3. Manually searching the appropriate section(s) for the best match
   4. Select the option which best explains “medical necessity”

<table>
<thead>
<tr>
<th>Dysphotopsia</th>
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</thead>
<tbody>
<tr>
<td><strong>Pathophysiology</strong></td>
</tr>
<tr>
<td>Visual phenomenon from an IOL</td>
</tr>
<tr>
<td><strong>ICD-10-CM applicable sections</strong></td>
</tr>
<tr>
<td>Vision section</td>
</tr>
<tr>
<td>Surgical complication section</td>
</tr>
<tr>
<td>eye section</td>
</tr>
<tr>
<td>trauma/surgery section</td>
</tr>
<tr>
<td><strong>Options</strong></td>
</tr>
<tr>
<td>H53.71 Glare sensitivity</td>
</tr>
<tr>
<td>H59.09 Other disorders following cataract surgery</td>
</tr>
<tr>
<td>T85.29 Mechanical complication of intraocular lens</td>
</tr>
<tr>
<td>T85.89X Other specified complication of internal prosthetic devices, implants and grafts, not elsewhere classified</td>
</tr>
</tbody>
</table>

IV. What’s new with ICD-10-CM?
   A. The key differences: ICD-9-CM vs. ICD-10-CM
      1. Organization and reorganization
         a. Proper placement of all codes
         b. Expansion of external causes
         c. Combination codes
         d. Late effects
      2. Alpha-numeric system
         a. Up to six (or seven) characters/digits
         b. Code extension modifiers (7th character)
         c. Placeholders
         d. Laterality
         e. Allows expansion for ~14,000 codes to ~68,000 codes
      3. Miscellaneous issues
         a. Excludes1 and Excludes2
         b. Stages of glaucoma
c. The dash “-”
d. With / without standardization
e. Unspecified standardization
f. Sequencing notations in the Alphabetical Index

B. Tabular List: organization and reorganization

1. Twenty-one chapters (italics indicates chapters where eye code may likely be found)
   a. Each chapter represents
      1) Body/organ systems; or
      2) Disease type
   b. Some chapters entail only part of an alpha character (Chapter 7 and 8 are both H)
   c. Other chapters take more than one alpha character (Chapter 19 and 20)

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Code Range</th>
</tr>
</thead>
</table>
   1       | Certain Infectious and Parasitic Diseases               | A00-B99          |
   2       | Neoplasms                                              | C00-D49          |
   3       | Disease of the Blood and Blood-forming Organs and Certain |                    |
       | Disorders Involving the Immune Mechanism               | D50-D89          |
   4       | Endocrine, Nutritional, and Metabolic Diseases         | E00-E89          |
   5       | Mental and Behavioral Disorders                        | F01–F99          |
   6       | Diseases of the Nervous System                         | G00-G99          |
   7       | Diseases of the Eye and Adnexa                         | H00-H59          |
   8       | Diseases of the Ear and Mastoid Process                | H60-H95          |
   9       | Diseases of the Circulatory System                     | I00-I99          |
  10      | Diseases of the Respiratory System                     | J00-J99          |
  11      | Diseases of the Digestive System                       | K00-K94          |
  12      | Diseases of the Skin and Subcutaneous Tissue           | L00-L99          |
  13      | Diseases of the Musculoskeletal System and Connective Tissue | M00-M99          |
  14      | Diseases of the Genitourinary System                   | N00-N99          |
  15      | Pregnancy, Childbirth, and the Puerperium              | O00-O9A          |
  16      | Certain Conditions Originating in the Perinatal Period | P00-P96          |
  17      | Congenital Malformations, Deformations, and Chromosomal Abnormalities | Q00-Q99          |
  18      | Symptoms, Signs, and Abnormal Clinical and Laboratory Findings, NEC | R00-R99          |
  19      | Injury, Poisoning, and Certain Other Consequences of External Causes | S00-T88          |
  20      | External Causes of Morbidity                           | V00–Y99          |
  21      | Factors Influencing Health Status and Contact with Health Services | Zoo-Z99          |

d. “E Codes” are Chapter 20
   1) External Causes of Morbidity
   2) V00 – Y99
e. “V Codes” become Chapter 21
   1) Factors Influencing Health Status and Contact with Health Services
   2) Zoo – Z99

2. Divided into
   a. Categories – three characters
   b. Subcategory – 4 or 5 characters
   c. Subclassification – 6 characters
   d. Character #1 is always alpha
   e. Characters 2 – 6 are usually numeric but can be alpha
f. “Codes” are the final level of subdivision
   1) A usable codes is any one that is not further subdivided
   2) A valid code can contain only 3 or up to 7 characters

3. Subcategories of Chapter 7, The Eye
   a. See Appendix B
   b. Progression from external (lids) to posterior segment
   c. Glaucoma follows retina – indicating it’s relation to the retina and optic nerve
   d. Ending with some miscellaneous issues
      1) Vision
      2) Eye movements
      3) Surgery complications
   e. Knowing this organization will make manual searches more efficient

4. Reorganization of many codes to different, more appropriate sections
   a. Some congenital disorders have been moved to the eye section
      
   b. Some PO conditions are now placed in the eye section
      
5. Expansion of the External Causes of Morbidity – Chapter 20
   a. No national mandate to use
   b. May be state of local mandates
   c. Place of occurrence and/or activity
      1) i.e. Pedestrian, pedal cycle, motorcycle, car, pickup, bus, etc.
      2) i.e. Intentional harm, assault, war, terrorism
      3) i.e. Misadventures to patients during surgical and medical care
         a) i.e. Failure of sterile precautions
         b) i.e. Failure of dosage
         c) Y77 Ophthalmic devices associated with adverse incidents
            i) Diagnostic devices
            ii) Therapeutic devices
iii) Prosthetic devices
iv) Surgical instruments

d. External Cause of Injury Index

6. Combination codes
a. A single code is used to classify:
   1) Two diagnoses; or
   2) A diagnosis with an associated manifestation; or
   3) A diagnosis with an associated complication
   4) Both must be present
   5) Both should never be unbundled

b. Diabetic retinopathy
   1) Moved from the eye section to the diabetes section (endocrine)
   2) Combined with the underlying diabetes mellitus
   3) Diabetes mellitus is divided into:
      a) E08 – due to underlying condition
      b) E09 – drug or chemical induced
      c) E10 – Type 1
      d) E11 – Type 2
      e) E13 – other specified diabetes mellitus
   4) Each of the above is further subdivided into the same subcategories, i.e.
      a) E**.0 – with hyperosmolarity
      b) E**.1 – with ketoacidosis
      c) E**.2 – with kidney complications
      d) E**.3 – with ophthalmic complications
      e) E**.4 – with neurological complications
      f) E**.5 – with circulatory complications
      g) E**.6 – with other specified complications
      h) E**.8 – with unspecified complications
      i) E**.9 – without complications
   5) Subcategory 3 “with ophthalmic complications” is further subdivided:
      a) E**.31 – with unspecified diabetic retinopathy
      b) E**.32 – with mild nonproliferative diabetic retinopathy
      c) E**.33 – with moderate nonproliferative diabetic retinopathy
      d) E**.34 – with severe nonproliferative diabetic retinopathy
      e) E**.35 – with proliferative retinopathy
      f) E**.36 – with diabetic cataract
      g) E**.39 – with other diabetic ophthalmic complication
   6) Finally each retinopathy code is further subdivided into
      a) E**.31 – with unspecified diabetic retinopathy
         i) E**.311 …with macular edema
         ii) E**.319 …without macular edema
      b) E**.32 – with mild nonproliferative diabetic retinopathy
         i) E**.321 …with macular edema
         ii) E**.329 …without macular edema
      c) E**.33 – with moderate nonproliferative diabetic retinopathy
         i) E**.331 …with macular edema
         ii) E**.339 …without macular edema
      d) E**.34 – with severe nonproliferative diabetic retinopathy
         i) E**.341 …with macular edema
         ii) E**.349 …without macular edema
      e) E**.35 – with proliferative retinopathy
         i) E**.351 …with macular edema
         ii) E**.359 …without macular edema
### E11.3 Type 2 diabetes mellitus with ophthalmic complications

- **E11.31** Type 2 diabetes mellitus with unspecified diabetic retinopathy
  - **E11.311** Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema
  - **E11.319** Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema

- **E11.32** Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy
  - **Type 2 diabetes mellitus with nonproliferative diabetic retinopathy NOS**
  - **E11.321** Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema
  - **E11.329** Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema

- **E11.33** Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy
  - **E11.331** Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema
  - **E11.339** Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema

- **E11.34** Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy
  - **E11.341** Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema
  - **E11.349** Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema

- **E11.35** Type 2 diabetes mellitus with proliferative diabetic retinopathy
  - **E11.351** Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema
  - **E11.359** Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema

- **E11.36** Type 2 diabetes mellitus with diabetic cataract

- **E11.39** Type 2 diabetes mellitus with other diabetic ophthalmic complication

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7) Diabetes: what you must know at the time of billing (exam)

a) The type of diabetes
   - i) Due to underlying condition
   - ii) Drug or chemical induced
   - iii) Type 1
   - iv) Type 2
   - v) Other specified

b) How it is affecting the eye
   - i) Retinopathy
   - ii) Cataract
   - iii) Other complication

c) The severity of the retinopathy
   - i) Unspecified retinopathy
   - ii) Mild nonproliferative retinopathy
   - iii) Moderate nonproliferative retinopathy
   - iv) Severe nonproliferative retinopathy
   - v) Proliferative retinopathy

d) Whether there is macular edema or not
C. The alpha-numeric system

1. The basics
   a. Every code begins with an alpha character
   b. There are a minimum of 3 characters/numbers
   c. There are a maximum of 7 characters/numbers
   d. Character 2 through 7 are usually numeric but can be alpha
   e. Standardized conventions: certain codes in certain positions are always the same

2. 7th Character extension
   a. Further qualify something about the diagnosis and the encounter
   b. Found primarily in orthopedic, obstetrics, injuries, and external causes
   c. It will apply to all codes in the section it is found
   d. Mandatory: if available the 7th character must be used
   e. If there is no 6th character, a placeholder "X" must be used in the 6th position

<table>
<thead>
<tr>
<th>T15</th>
<th>Foreign body on external eye</th>
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<tbody>
<tr>
<td>A</td>
<td>initial encounter</td>
</tr>
<tr>
<td>D</td>
<td>subsequent encounter</td>
</tr>
<tr>
<td>S</td>
<td>sequela</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>T15.0</th>
<th>Foreign body in cornea</th>
</tr>
</thead>
<tbody>
<tr>
<td>T15.00</td>
<td>Foreign body in cornea, unspecified eye</td>
</tr>
<tr>
<td>T15.01</td>
<td>Foreign body in cornea, right eye</td>
</tr>
<tr>
<td>T15.02</td>
<td>Foreign body in cornea, left eye</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>T15.1</th>
<th>Foreign body in conjunctival sac</th>
</tr>
</thead>
<tbody>
<tr>
<td>T15.10</td>
<td>Foreign body in conjunctival sac, unspecified eye</td>
</tr>
<tr>
<td>T15.11</td>
<td>Foreign body in conjunctival sac, right eye</td>
</tr>
<tr>
<td>T15.12</td>
<td>Foreign body in conjunctival sac, left eye</td>
</tr>
</tbody>
</table>

3. Placeholder character "X"
   a. May be used for use with the 7th character extension

<table>
<thead>
<tr>
<th>S05</th>
<th>Injury of eye and orbit</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>initial encounter</td>
</tr>
<tr>
<td>D</td>
<td>subsequent encounter</td>
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<td>sequela</td>
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<table>
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<tr>
<th>S05.7</th>
<th>Avulsion of eye</th>
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<tr>
<td>S05.70</td>
<td>Avulsion of unspecified eye</td>
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<tr>
<td>S05.71</td>
<td>Avulsion of right eye</td>
</tr>
<tr>
<td>S05.72</td>
<td>Avulsion of left eye</td>
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</tbody>
</table>

   b. May be used in anticipation of future expansion

<table>
<thead>
<tr>
<th>H21.1</th>
<th>Other vascular disorders of iris and ciliary body</th>
</tr>
</thead>
<tbody>
<tr>
<td>H21.1x</td>
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</tr>
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<td>Other vascular disorders of iris and ciliary body, right eye</td>
</tr>
<tr>
<td>H21.1x2</td>
<td>Other vascular disorders of iris and ciliary body, left eye</td>
</tr>
<tr>
<td>H21.1x3</td>
<td>Other vascular disorders of iris and ciliary body, bilateral</td>
</tr>
<tr>
<td>H21.1x9</td>
<td>Other vascular disorders of iris and ciliary body, unspecified eye</td>
</tr>
</tbody>
</table>

   | H21.2 | Degeneration of iris and ciliary body |

   "The appropriate 7th character is to be added to each code from category"
4. Laterality
   a. Typical nomenclature for laterality
      1) Right, left, bilateral, unspecified
      2) Found when conditions are not generally considered bilateral
   b. Standardized conventions
      1) Right = 1
      2) Left = 2
      3) Bilateral = 3
      4) Unspecified = 0 for position #5; 9 for position #6
      5) Unless it is combined with upper and lower, then the rules are thrown out

   c. Lack of laterality
      1) Laterality is never specified in “Other” and “Unspecified” conditions
      2) Laterality is not specified in hereditary conditions that are generally bilateral
      3) Laterality is not specified in systemic conditions with ophthalmic manifestations, i.e. diabetes with ophthalmic complications
      4) Laterality is not specified in some unpredictable situations: primary open angle glaucoma
5. Upper and lower
   a. With eye conditions it is combined with right and left
   b. Conventions: last character:
      1) 1 = right upper
      2) 2 = right lower
      3) 3 = right unspecified
      4) 4 = left upper
      5) 5 = left lower
      6) 6 = left unspecified
      7) 9 = unspecified eye, unspecified eyelid

D. Miscellaneous new features
   1. Excludes1 and Excludes2
      a. The concept
         1) Some codes may or may not be used together
         2) Excludes details which codes
         3) Excludes details the circumstance
         4) Shows where to find the excluded code(s)
         5) Applies to the entire section where the instruction is found
      b. Excludes1
         1) Means “NOT CODED HERE!”
         2) The excluded code is NEVER used with the code listed above it
         3) Found when two codes cannot coexist; i.e. a congenital vs. an acquired condition

   c. Excludes2
      1) Means “not included here”
      2) The excluded condition is not part of the code listed above it
      3) It is possible that both conditions could be found simultaneously in the same patient
      4) It is acceptable to use both codes at the same time, when appropriate
H46  Optic neuritis

*Excludes2:*
- ischemic optic neuropathy (H47.01-)
- neuromyelitis optica [Devic] (G36.0)

H46.0  Optic papillitis
  - H46.00  Optic papillitis, unspecified eye
  - H46.01  Optic papillitis, right eye
  - H46.02  Optic papillitis, left eye
  - H46.03  Optic papillitis, bilateral

2. Stages of glaucoma
   a. The severity of most (not all) of the glaucomas is defined with a 7th character code extension
      1) 0 = stage unspecified
      2) 1 = mild stage
      3) 2 = moderate stage
      4) 3 = severe stage
      5) 4 = indeterminate stage
   b. May require the use of the “X” place holder

H40.12  Low tension glaucoma

*One of the following 7th characters is to be assigned to each code in subcategory H40.12 to designate the stage of glaucoma*
  - 0 = stage unspecified
  - 1 = mild stage
  - 2 = moderate stage
  - 3 = severe stage
  - 4 = indeterminate stage

H40.121  Low-tension glaucoma, right eye
H40.122  Low-tension glaucoma, left eye
H40.123  Low-tension glaucoma, bilateral
H40.129  Low-tension glaucoma, unspecified eye

c. Coding glaucoma: if
   1) Bilateral same type of glaucoma same stage: use one single code
   2) Bilateral same type of glaucoma different stage: use two different codes
   3) Bilateral different type of glaucoma: use two different codes

3. Headache
   a. Some of the headache codes differentiate between “intractable” and “not intractable”
   b. Migraine headaches differentiate between with and without “status migrainosus”
   c. Note and document this during your clinic evaluation

G44.2  Tension-type headache
  - G44.21  Episodic tension-type headache
    - G44.211  Episodic tension-type headache, intractable
    - G44.219  Episodic tension-type headache, not intractable
    *Episodic tension-type headache NOS*

4. Dash “-”
   a. Found in the Alphabetical Index
   b. Found at the end of a code
   c. Indicates additional characters are required as specified in the Tabular List

Blepharoconjunctivitis H10.50-
  - angular H10.52-
  - contact H10.53-
  - ligneous H10.51-
5. “With” / “Without” in the Tabular List
   a. 5th character
      1) 0 = without
      2) 1 = with

      | Code  | Description                                      |
      |-------|--------------------------------------------------|
      | G43.B | Ophthalmoplegic migraine                        |
      | G43.B0| Ophthalmoplegic migraine, not intractable        |
      |       | *Ophthalmoplegic migraine, without refractory migraine* |
      | G43.B1| Ophthalmoplegic migraine, intractable            |
      |       | *Ophthalmoplegic migraine, with refractory migraine* |

   b. 6th character
      1) 1 = with
      2) 9 = without

      | Code  | Description                                      |
      |-------|--------------------------------------------------|
      | E11.33| Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy |
      | E11.331| Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy *with* macular edema |
      | E11.339| Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy *without* macular edema |

6. “Unspecified”
   a. Standard conventions:
      1) 4th digit = 9
      2) 5th digit = 0
      3) 6th digit = 9

      | Code  | Description                                      |
      |-------|--------------------------------------------------|
      | H30.9 | Unspecified chorioretinal inflammation           |
      | H30.90| Unspecified chorioretinal inflammation, unspecified eye |
      | H30.91| Unspecified chorioretinal inflammation, right eye |
      | H30.92| Unspecified chorioretinal inflammation, left eye  |
      | H30.93| Unspecified chorioretinal inflammation, bilateral |

      | Code  | Description                                      |
      |-------|--------------------------------------------------|
      | H30.0 | Focal chorioretinal inflammation                 |
      | H30.00| Unspecified focal chorioretinal inflammation     |
      | H30.001| Unspecified focal chorioretinal inflammation, right eye |
      | H30.002| Unspecified focal chorioretinal inflammation, left eye |
      | H30.003| Unspecified focal chorioretinal inflammation, bilateral |
      | H30.009| Unspecified focal chorioretinal inflammation, unspecified eye |

   b. Alphabetical Index: code listed with main condition is usually “unspecified”

      | Code  | Description                                      |
      |-------|--------------------------------------------------|
      | H20.9 | Iridocyclitis                                   |
      |       | acute H20.0-                                    |
      |       | hypopyon H20.05-                                 |
      |       | primary H20.01-                                  |
      |       | recurrent H20.02-                                |
      |       | secondary (noninfectious) H20.04-                |
      |       | infectious H20.03-                               |
      | H20.9 | Unspecified iridocyclitis                        |

7. Injury codes
   a. Chapter 19 – Soo-T88
   b. Most S codes = body part
   c. Most T codes = type of injury
   d. Don’t forget the new section H59.-
S00-S09 Injuries to the head
  S00.1 Contusion of eyelid and periocular area
  S00.2 Other and unspecified injury to eyelid and periocular area
  S01.1 Open wound of eyelid and periocular area
  S02.3 Fracture of orbital floor
  S05 Injury of eye and orbit
S10-S19 Injuries to the neck
S20-S29 Injuries to the thorax
S30-S39 Injuries to the abdomen, lower back, lumbar spine, pelvis and external genitals
S40-S49 Injuries to the shoulder and upper arm
S50-S59 Injuries to the elbow and forearm
S60-S69 Injuries to the wrist, hand and fingers
S70-S79 Injuries to the hip and thigh
S80-S89 Injuries to the knee and lower leg
S90-S99 Injuries to the ankle and foot
T07 Injuries involving multiple body regions
T14 Injury of unspecified body region
T15-T19 Effects of foreign body entering through natural orifice
  T15 Foreign body on external eye
T20-T32 Burns and corrosions
  T26 Burn and corrosion confined to eye and adnexa
T20-T25 Burns and corrosions of external body surface, specified by site
T26-T28 Burns and corrosions confined to eye and internal organs
T30-T32 Burns and corrosions of multiple and unspecified body regions
T33-T34 Frostbite
T36-T50 Poisoning by, adverse effect of and underdosing of drugs, medicaments and biological substances
  T49.5 Poisoning by, adverse effect of and underdosing of ophthalmological drugs and preparations
T51-T65 Toxic effects of substances chiefly nonmedicinal as to source
T66-T78 Other and unspecified effects of external causes
T79 Certain early complications of trauma
T80-T88 Complications of surgical and medical care, not elsewhere classified
  T85.2 Mechanical complication of intraocular lens
  T85.3 Mechanical complication of other ocular prosthetic devices, implants and grafts
  T86.84 Complications of corneal transplant

D. Table of Drugs and Chemicals – See Appendix C
   1. An alternate index to the Tabular List
   2. Codes T36 – T65
   3. Mixture of class of medications, generic names and even trade names
   4. Indexed according to chemical/medication
      a. Poisoning, accidental (unintentional)
      b. Poisoning, intentional self-harm
      c. Poisoning, assault
      d. Poisoning, undetermined
      e. Adverse effect
      f. Underdosing
   5. This table can be very helpful
E. Table of Neoplasms – See Appendix D
   1. An alternate index to the Tabular List
2. Organized according to
   a. Body part/organ
   b. Tissue type
3. Classifies if the neoplasm is:
   a. Malignant, primary
   b. Malignant, secondary
   c. Ca in situ
   d. Benign
   e. Uncertain behavior
   f. Unspecified behavior
4. **This table can be very helpful**

V. Preparing for ICD·10·CM

A. Planning the transition: getting everyone on board
1. Many courses, workshops and publications (sometimes very confusing)
2. The process varies considerably depending on size and complexity
   a. Assess your needs
      1) Look at every area of your practice
         a) Front office
         b) Back office
         c) Clinic
         d) Surgery
         e) Outreach (PR)
         f) Forms
            i) Patient registration
            ii) Superbill
            iii) Laboratory orders
            iv) Eligibility forms
      2) Look at electronic systems and vendors
         a) EHR
         b) Practice Management
         c) ERx
         d) Billing services
         e) Clearing houses
      3) Identify all staff who work with diagnosis codes
b. Making appropriate changes
   1) Redesign clinic data gathering
      a) Severity of glaucoma
      b) Type and complications of diabetes
      c) Upper and lower lids
      d) Nature of headaches
   2) Contact the vendors
      a) New software?
      b) New hardware?
   3) Redesign forms – especially your “Quick Code List”
   4) Work with billing systems
      a) Clearing houses
      b) Billing services
    c. Perform staff training
       1) Who?
       2) How?
       3) How much?
       4) When?
Perform dry runs
Implement – October 1, 2014
  1) Code set used is determined by date of service
  2) If service provided prior to 10/1/2014, use ICD-9-CM even if submitted after 10/1/2014

Be prepared that not all carriers will be ready
Be prepared for the overlap of the two systems
3. Allow time

B. Resources
1. All major coding publishers
   a. Hard copy
   b. Electronic search programs
2. CMS (free): http://www.cdc.gov/nchs/icd/icd10cm.htm
   a. The entire ICD-10 code set in .pdf format
   b. The entire ICD-10 code set in XML format
4. Planning
   a. AMA:
      1) http://www.ama-assn.org/go/icd-10
      2) http://www.ama-assn.org/resources/doc/washington/icd-10-project-plan-template.xls
   b. CMS: http://cms.gov/Medicare/Coding/ICD10

C. ICD-10-CM code set
1. Tabular List
2. Alphabetical Index
   a. Table of Drugs and Chemicals
   b. Table of Neoplasm
3. ICD-10-CM Guidelines
   a. Here are all the official rules for ICD-10-CM
   b. There are specific, unique guidelines for many sections, chapters, conditions or organ systems

D. GEMs – General Equivalence Mapping
1. The GEM’s are the ICD-10-CM committee’s attempt to match ICD-9-CM codes with equivalent ICD-10-CM codes
2. This is done mainly for professionals in industry rather than the medical practice
3. Provides tables for both:
   a. Forward mapping: ICD-9-CM to ICD-10-CM

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<thead>
<tr>
<th>ICD-9</th>
<th>ICD-10</th>
<th>Rule</th>
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<td>H4020</td>
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</tbody>
</table>

365.00 Preglaucoma, unspecified
  H40.0 Glaucoma suspect
365.12 Low tension glaucoma
  H40.129 Low-tension glaucoma, unspecified eye
b. Backward mapping: ICD-10-CM to ICD-9-CM

<table>
<thead>
<tr>
<th>ICD-10</th>
<th>ICD-9</th>
<th>Rule</th>
</tr>
</thead>
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<td>10000</td>
</tr>
<tr>
<td>H2523</td>
<td>366.18</td>
<td>10000</td>
</tr>
</tbody>
</table>

H25.10 Age-related nuclear cataract, unspecified eye
366.16 Nuclear sclerosis cataract
H25.21 Age-related cataract, Morgagnian, right eye
366.18 Hypermature cataract

c. The cross-walk is not precise
   1) There may be combination codes
   2) There may be a higher level of specificity
   3) Rules
      a) Approximate flag
      b) No map flag
      c) Combination flag
      d) Scenario
         i) the number of variations of diagnosis combinations included in the source system code
         ii) 1 - 9
      e) Choice list
         i) the possible target system codes that combined are one valid expression of a scenario
         ii) 1 - 9

d. GEMs may be helpful for that oddball, rare bird codes you used in ICD-9 and don’t have a clue where to begin in ICD-10

VI. Summary
   A. ICD-10-CM is right around the corner
   B. It is a huge change from ICD-9-CM
   C. The success of your transition in the next few months will be dependent on:
      1. The choices and decisions you make
      2. And the actions you take
   D. You can be prepared
Appendix A

ICD-10 vs. ICD-10-CM

ICD-10-CM

H40 Glaucoma

Excludes:
- absolute glaucoma (H44.51-)
- congenital glaucoma (Q15.0)
- traumatic glaucoma due to birth injury (P15.3)

H40.0 Glaucoma suspect

H40.00 Preglaucoma, unspecified
  H40.001 Preglaucoma, unspecified, right eye
  H40.002 Preglaucoma, unspecified, left eye
  H40.003 Preglaucoma, unspecified, bilateral
  H40.009 Preglaucoma, unspecified, unspecified eye

H40.01 Open angle with borderline findings, low risk
  Open angle, low risk
  H40.011 Open angle with borderline findings, low risk, right eye
  H40.012 Open angle with borderline findings, low risk, left eye
  H40.013 Open angle with borderline findings, low risk, bilateral
  H40.019 Open angle with borderline findings, low risk, unspecified eye

H40.02 Open angle with borderline findings, high risk
  Open angle, high risk
  H40.021 Open angle with borderline findings, high risk, right eye
  H40.022 Open angle with borderline findings, high risk, left eye
  H40.023 Open angle with borderline findings, high risk, bilateral
  H40.029 Open angle with borderline findings, high risk, unspecified eye

H40.03 Anatomical narrow angle
  Primary angle closure suspect
  H40.031 Anatomical narrow angle, right eye
  H40.032 Anatomical narrow angle, left eye
  H40.033 Anatomical narrow angle, bilateral
  H40.039 Anatomical narrow angle, unspecified eye

H40.04 Steroid responder
  H40.041 Steroid responder, right eye
  H40.042 Steroid responder, left eye
  H40.043 Steroid responder, bilateral
  H40.049 Steroid responder, unspecified eye

H40.05 Ocular hypertension
  H40.051 Ocular hypertension, right eye
  H40.052 Ocular hypertension, left eye
  H40.053 Ocular hypertension, bilateral
  H40.059 Ocular hypertension, unspecified eye

H40.06 Primary angle closure without glaucoma damage
  H40.061 Primary angle closure without glaucoma damage, right eye
  H40.062 Primary angle closure without glaucoma damage, left eye
  H40.063 Primary angle closure without glaucoma damage, bilateral
  H40.069 Primary angle closure without glaucoma damage, unspecified eye

H40.1 Open-angle glaucoma

H40.10 Unspecified open-angle glaucoma
One of the following 7th characters is to be assigned to code H40.10 to designate the stage of glaucoma
0 - stage unspecified
1 - mild stage
2 - moderate stage
3 - severe stage
4 - indeterminate stage

H40.11 Primary open-angle glaucoma
Chronic simple glaucoma

One of the following 7th characters is to be assigned to code H40.11 to designate the stage of glaucoma
0 - stage unspecified
1 - mild stage
2 - moderate stage
3 - severe stage
4 - indeterminate stage

H40.12 Low-tension glaucoma

One of the following 7th characters is to be assigned to each code in subcategory H40.12 to designate the stage of glaucoma
0 - stage unspecified
1 - mild stage
2 - moderate stage
3 - severe stage
4 - indeterminate stage

H40.121 Low-tension glaucoma, right eye
H40.122 Low-tension glaucoma, left eye
H40.123 Low-tension glaucoma, bilateral
H40.129 Low-tension glaucoma, unspecified eye

H40.13 Pigmentary glaucoma

One of the following 7th characters is to be assigned to each code in subcategory H40.13 to designate the stage of glaucoma
0 - stage unspecified
1 - mild stage
2 - moderate stage
3 - severe stage
4 - indeterminate stage

H40.131 Pigmentary glaucoma, right eye
H40.132 Pigmentary glaucoma, left eye
H40.133 Pigmentary glaucoma, bilateral
H40.139 Pigmentary glaucoma, unspecified eye

H40.14 Capsular glaucoma with pseudoexfoliation of lens

One of the following 7th characters is to be assigned to each code in subcategory H40.14 to designate the stage of glaucoma
0 - stage unspecified
1 - mild stage
2 - moderate stage
3 - severe stage
4 - indeterminate stage

H40.141 Capsular glaucoma with pseudoexfoliation of lens, right eye
H40.142 Capsular glaucoma with pseudoexfoliation of lens, left eye
H40.143 Capsular glaucoma with pseudoexfoliation of lens, bilateral
H40.149 Capsular glaucoma with pseudoexfoliation of lens, unspecified eye
H40.15  Residual stage of open-angle glaucoma
    H40.151  Residual stage of open-angle glaucoma, right eye
    H40.152  Residual stage of open-angle glaucoma, left eye
    H40.153  Residual stage of open-angle glaucoma, bilateral
    H40.159  Residual stage of open-angle glaucoma, unspecified eye

ICD-10

H40  Glaucoma

    Excludes:
        absolute glaucoma (H44.5)
        congenital glaucoma (Q15.0)
        traumatic glaucoma due to birth injury (P15.3)

H40.0  Glaucoma suspect
    Ocular hypertension

H40.1  Primary open-angle glaucoma
    Glaucoma (primary)(residual stage):
        capsular with pseudoexfoliation of lens
        chronic simple
        low-tension
        pigmentary
### Appendix B
**Subcategories of Chapter 7, The Eye**

#### Disorders of eyelid, lacrimal system and orbit (H00-H05)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H00</td>
<td>Hordeolum and chalazion</td>
</tr>
<tr>
<td>H01</td>
<td>Other inflammation of eyelid</td>
</tr>
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<td>H01.0</td>
<td>Blepharitis</td>
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<td>Noninfectious dermatoses of eyelid</td>
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<td>Other specified inflammations of eyelid</td>
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<td>H01.9</td>
<td>Unspecified inflammation of eyelid</td>
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<tr>
<td>H02</td>
<td>Other disorders of eyelid</td>
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<td>Other disorders affecting eyelid function</td>
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<td>Other and unspecified degenerative disorders of eyelid and periocular area</td>
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<td>Disorders of lacrimal system</td>
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<td>Other disorders of lacrimal gland</td>
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<td>Epiphora</td>
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<td>Acute and unspecified inflammation of lacrimal passages</td>
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<td>Chronic inflammation of lacrimal passages</td>
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<td>Stenosis and insufficiency of lacrimal passages</td>
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<tr>
<td>H04.6</td>
<td>Other changes of lacrimal passages</td>
</tr>
<tr>
<td>H04.8</td>
<td>Other disorders of lacrimal system</td>
</tr>
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<td>H04.9</td>
<td>Disorder of lacrimal system, unspecified</td>
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<td>H05</td>
<td>Disorders of orbit</td>
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<td>Acute inflammation of orbit</td>
</tr>
<tr>
<td>H05.1</td>
<td>Chronic inflammatory disorders of orbit</td>
</tr>
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<td>H05.2</td>
<td>Exophthalmic conditions</td>
</tr>
<tr>
<td>H05.3</td>
<td>Deformity of orbit</td>
</tr>
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<td>H05.4</td>
<td>Enophthalmos</td>
</tr>
<tr>
<td>H05.5</td>
<td>Retained (old) foreign body following penetrating wound of orbit</td>
</tr>
<tr>
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<td>Other disorders of orbit</td>
</tr>
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<td>H05.9</td>
<td>Unspecified disorder of orbit</td>
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#### Disorders of conjunctiva (H10-H11)

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>H10</td>
<td>Conjunctivitis</td>
</tr>
<tr>
<td>H10.0</td>
<td>Mucopurulent conjunctivitis</td>
</tr>
<tr>
<td>H10.1</td>
<td>Acute atopic conjunctivitis</td>
</tr>
<tr>
<td>H10.2</td>
<td>Other acute conjunctivitis</td>
</tr>
<tr>
<td>H10.3</td>
<td>Unspecified acute conjunctivitis</td>
</tr>
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<td>H10.4</td>
<td>Chronic conjunctivitis</td>
</tr>
<tr>
<td>H10.5</td>
<td>Blepharoconjunctivitis</td>
</tr>
<tr>
<td>H10.8</td>
<td>Other conjunctivitis</td>
</tr>
<tr>
<td>H10.9</td>
<td>Unspecified conjunctivitis</td>
</tr>
<tr>
<td>H11</td>
<td>Other disorders of conjunctiva</td>
</tr>
<tr>
<td>H11.0</td>
<td>Pterygium of eye</td>
</tr>
<tr>
<td>H11.1</td>
<td>Conjunctival degenerations and deposits</td>
</tr>
<tr>
<td>H11.2</td>
<td>Conjunctival scars</td>
</tr>
<tr>
<td>H11.3</td>
<td>Conjunctival hemorrhage</td>
</tr>
<tr>
<td>H11.4</td>
<td>Other conjunctival vascular disorders and cysts</td>
</tr>
<tr>
<td>H11.8</td>
<td>Other specified disorders of conjunctiva</td>
</tr>
<tr>
<td>H11.9</td>
<td>Unspecified disorder of conjunctiva</td>
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#### Disorders of sclera, cornea, iris and ciliary body (H15-H22)

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<tbody>
<tr>
<td>H15</td>
<td>Disorders of sclera</td>
</tr>
<tr>
<td>H15.0</td>
<td>Scleritis</td>
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<tr>
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<td>Episcleritis</td>
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<td>H15.8</td>
<td>Other disorders of sclera</td>
</tr>
<tr>
<td>H15.9</td>
<td>Unspecified disorder of sclera</td>
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<tr>
<td>H16</td>
<td>Keratitis</td>
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<tr>
<td>H16.0</td>
<td>Corneal ulcer</td>
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<td>H16.1</td>
<td>Other and unspecified superficial keratitis without conjunctivitis</td>
</tr>
<tr>
<td>H16.2</td>
<td>Keratoconjunctivitis</td>
</tr>
<tr>
<td>H16.3</td>
<td>Interstitial and deep keratitis</td>
</tr>
<tr>
<td>H16.4</td>
<td>Corneal neovascularization</td>
</tr>
<tr>
<td>H16.8</td>
<td>Other keratitis</td>
</tr>
<tr>
<td>H16.9</td>
<td>Unspecified keratitis</td>
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<tr>
<td>H17</td>
<td>Corneal scars and opacities</td>
</tr>
<tr>
<td>H17.0</td>
<td>Adherent leukemia</td>
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<td>H17.1</td>
<td>Central corneal opacity</td>
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<td>Other corneal scars and opacities</td>
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<td>H17.9</td>
<td>Unspecified corneal scar and opacity</td>
</tr>
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<td>H18</td>
<td>Other disorders of cornea</td>
</tr>
<tr>
<td>H18.0</td>
<td>Corneal pigmentation and deposits</td>
</tr>
<tr>
<td>H18.1</td>
<td>Bullous keratopathy</td>
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<tr>
<td>H18.2</td>
<td>Other and unspecified corneal edema</td>
</tr>
<tr>
<td>H18.3</td>
<td>Changes of corneal membranes</td>
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<tr>
<td>H18.4</td>
<td>Corneal degeneration</td>
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<tr>
<td>H18.5</td>
<td>Hereditary corneal dystrophies</td>
</tr>
<tr>
<td>H18.6</td>
<td>Keratoconus</td>
</tr>
<tr>
<td>H18.7</td>
<td>Other and unspecified corneal deformities</td>
</tr>
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</table>
H18.8 Other specified disorders of cornea
H18.9 Unspecified disorder of cornea

H20 Iridocyclitis
H20.0 Acute and subacute iridocyclitis
H20.1 Chronic iridocyclitis
H20.2 Lens-induced iridocyclitis
H20.8 Other iridocyclitis
H20.9 Unspecified iridocyclitis

H21 Other disorders of iris and ciliary body
H21.0 Hyphema
H21.1 Other vascular disorders of iris and ciliary body
H21.2 Degeneration of iris and ciliary body
H21.3 Cyst of iris, ciliary body and anterior chamber
H21.4 Pupillary membranes
H21.5 Other and unspecified adhesions and disruptions of iris and ciliary body
H21.8 Other specified disorders of iris and ciliary body
H21.9 Unspecified disorder of iris and ciliary body

H22 Disorders of iris and ciliary body in diseases classified elsewhere

Disorders of lens (H25-H28)

H25 Age-related cataract
H25.0 Age-related incipient cataract
H25.1 Age-related nuclear cataract
H25.2 Age-related cataract, Morgagnian type
H25.8 Other age-related cataract
H25.9 Unspecified age-related cataract

H26 Other cataract
H26.0 Infantile and juvenile cataract
H26.1 Traumatic cataract
H26.2 Complicated cataract
H26.3 Drug-induced cataract
H26.4 Secondary cataract
H26.8 Other specified cataract
H26.9 Unspecified cataract

H27 Other disorders of lens
H27.0 Aphakia
H27.1 Dislocation of lens
H27.8 Other specified disorders of lens
H27.9 Unspecified disorder of lens

H28 Cataract in diseases classified elsewhere

Disorders of choroid and retina (H30-H36)

H30 Chorioretinal inflammation
H30.0 Focal chorioretinal inflammation
H30.1 Disseminated chorioretinal inflammation
H30.2 Posterior cyclitis
H30.8 Other chorioretinal inflammations
H30.9 Unspecified chorioretinal inflammation

H31 Other disorders of choroid
H31.0 Chorioretinal scars
H31.1 Choroidal degeneration
H31.2 Hereditary choroidal dystrophy
H31.3 Choroidal hemorrhage and rupture
H31.4 Choroidal detachment
H31.8 Other specified disorders of choroid
H31.9 Unspecified disorder of choroid

H32 Chorioretinal disorders in diseases classified elsewhere

H33 Retinal detachments and breaks
H33.0 Retinal detachment with retinal break
H33.1 Retinoschisis and retinal cysts
H33.2 Serous retinal detachment
H33.3 Retinal breaks without detachment
H33.4 Traction detachment of retina
H33.8 Other retinal detachments

H34 Retinal vascular occlusions
H34.0 Transient retinal artery occlusion
H34.1 Central retinal artery occlusion
H34.2 Other retinal artery occlusions
H34.8 Other retinal vascular occlusions
H34.9 Unspecified retinal vascular occlusion

H35 Other retinal disorders
H35.0 Background retinopathy and retinal vascular changes
H35.1 Retinopathy of prematurity
H35.2 Other non-diabetic proliferative retinopathy
H35.3 Degeneration of macula and posterior pole
H35.4 Peripheral retinal degeneration
H35.5 Hereditary retinal dystrophy
H35.6 Retinal hemorrhage
H35.7 Separation of retinal layers
H35.8 Other specified retinal disorders
H35.9 Unspecified retinal disorder

H36 Retinal disorders in diseases classified elsewhere

Glaucoma (H40-H42)

H40 Glaucoma
H40.0 Glaucoma suspect
H40.1 Open-angle glaucoma
H40.2 Primary angle-closure glaucoma
H40.3 Glaucoma secondary to eye trauma
H40.4 Glaucoma secondary to eye inflammation
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<td>H40.5</td>
<td>Glaucoma secondary to other eye disorders</td>
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<td>Glaucoma secondary to drugs</td>
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**Disorders of vitreous body and globe (H43-H44)**

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<td>Disorders of vitreous body</td>
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<td>H43.0</td>
<td>Vitreous prolapse</td>
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<td>H43.1</td>
<td>Vitreous hemorrhage</td>
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<td>H43.2</td>
<td>Crystalline deposits in vitreous body</td>
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<tr>
<td>H43.3</td>
<td>Other vitreous opacities</td>
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<tr>
<td>H43.8</td>
<td>Other disorders of vitreous body</td>
</tr>
<tr>
<td>H43.9</td>
<td>Unspecified disorder of vitreous body</td>
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<tr>
<td><strong>H44</strong></td>
<td>Disorders of globe</td>
</tr>
<tr>
<td>H44.0</td>
<td>Purulent endophthalmitis</td>
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<td>Other endophthalmitis</td>
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<tr>
<td>H44.2</td>
<td>Degenerative myopia</td>
</tr>
<tr>
<td>H44.3</td>
<td>Other and unspecified degenerative disorders of globe</td>
</tr>
<tr>
<td>H44.4</td>
<td>Hypotony of eye</td>
</tr>
<tr>
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<td>Degenerated conditions of globe</td>
</tr>
<tr>
<td>H44.6</td>
<td>Retained (old) intraocular foreign body, magnetic</td>
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<td>H44.7</td>
<td>Retained (old) intraocular foreign body, nonmagnetic</td>
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<td>Other disorders of globe</td>
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**Disorders of optic nerve and visual pathways (H46-H47)**

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<tr>
<td>H46</td>
<td>Optic neuritis</td>
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<tr>
<td>H46.0</td>
<td>Optic papillitis</td>
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<tr>
<td>H46.1</td>
<td>Retrobulbar neuritis</td>
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<td>H46.2</td>
<td>Nutritional optic neuropathy</td>
</tr>
<tr>
<td>H46.3</td>
<td>Toxic optic neuropathy</td>
</tr>
<tr>
<td>H46.8</td>
<td>Other optic neuritis</td>
</tr>
<tr>
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<td>Unspecified optic neuritis</td>
</tr>
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<td><strong>H47</strong></td>
<td>Other disorders of optic [2nd] nerve and visual pathways</td>
</tr>
<tr>
<td>H47.0</td>
<td>Disorders of optic nerve, not elsewhere classified</td>
</tr>
<tr>
<td>H47.1</td>
<td>Papilledema</td>
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<td>H47.2</td>
<td>Optic atrophy</td>
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<td>H47.3</td>
<td>Other disorders of optic disc</td>
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<tr>
<td>H47.4</td>
<td>Disorders of optic chiasm</td>
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<td>H47.5</td>
<td>Disorders of other visual pathways</td>
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<td>H47.6</td>
<td>Disorders of visual cortex</td>
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<td>H47.9</td>
<td>Unspecified disorder of visual pathways</td>
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**Disorders of ocular muscles, binocular movement, accommodation and refraction (H49-H52)**

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<tbody>
<tr>
<td>H49</td>
<td>Paralytic strabismus</td>
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<tr>
<td>H49.0</td>
<td>Third [oculomotor] nerve palsy</td>
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<td>H49.1</td>
<td>Fourth [trochlear] nerve palsy</td>
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<tr>
<td>H49.2</td>
<td>Sixth [abducent] nerve palsy</td>
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<tr>
<td>H49.3</td>
<td>Total (external) ophthalmoplegia</td>
</tr>
<tr>
<td>H49.4</td>
<td>Progressive external ophthalmoplegia</td>
</tr>
<tr>
<td>H49.8</td>
<td>Other paralytic strabismus</td>
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<td>Unspecified paralytic strabismus</td>
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<td><strong>H50</strong></td>
<td>Other strabismus</td>
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<tr>
<td>H50.0</td>
<td>Esotropia</td>
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<td>Exotropia</td>
</tr>
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<td>H50.2</td>
<td>Vertical strabismus</td>
</tr>
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<td>H50.3</td>
<td>Intermittent heterotropia</td>
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<td>Other and unspecified heterotropia</td>
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<td>H50.5</td>
<td>Heterophoria</td>
</tr>
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<td>H50.6</td>
<td>Mechanical strabismus</td>
</tr>
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<td>Unspecified strabismus</td>
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**H51** | Other disorders of binocular movement

<table>
<thead>
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<tbody>
<tr>
<td>H51.0</td>
<td>Palsy (spasm) of conjugate gaze</td>
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<tr>
<td>H51.1</td>
<td>Convergence insufficiency and excess</td>
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<tr>
<td>H51.2</td>
<td>Internuclear ophthalmoplegia</td>
</tr>
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<td>H51.8</td>
<td>Other specified disorders of binocular movement</td>
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<td>H51.9</td>
<td>Unspecified disorder of binocular movement</td>
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**H52** | Disorders of refraction and accommodation

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>H52.0</td>
<td>Hypermetropia</td>
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<td>H52.1</td>
<td>Myopia</td>
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<tr>
<td>H52.2</td>
<td>Astigmatism</td>
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<td>Anisometropia and aniseikonia</td>
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<td>H52.4</td>
<td>Presbyopia</td>
</tr>
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<td>H52.5</td>
<td>Disorders of accommodation</td>
</tr>
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<td>H52.6</td>
<td>Other disorders of refraction</td>
</tr>
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<td>H52.7</td>
<td>Unspecified disorder of refraction</td>
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**Visual disturbances and blindness (H53-H54)**

<table>
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<tr>
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<tbody>
<tr>
<td>H53.0</td>
<td>Amblyopia ex anopsia</td>
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<tr>
<td>H53.1</td>
<td>Subjective visual disturbances</td>
</tr>
<tr>
<td>H53.2</td>
<td>Diplopia</td>
</tr>
<tr>
<td>H53.3</td>
<td>Other and unspecified disorders of binocular vision</td>
</tr>
<tr>
<td>H53.4</td>
<td>Visual field defects</td>
</tr>
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<td>H53.5</td>
<td>Color vision deficiencies</td>
</tr>
<tr>
<td>H53.6</td>
<td>Night blindness</td>
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<td>H53.7</td>
<td>Vision sensitivity deficiencies</td>
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<td>H53.8</td>
<td>Other visual disturbances</td>
</tr>
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<td>H53.9</td>
<td>Unspecified visual disturbance</td>
</tr>
</tbody>
</table>
H54  **Blindness and low vision**  
   H54.0  Blindness, both eyes  
   H54.1  Blindness, one eye, low vision other eye  
   H54.2  Low vision, both eyes  
   H54.3  Unqualified visual loss, both eyes  
   H54.4  Blindness, one eye  
   H54.5  Low vision, one eye  
   H54.6  Unqualified visual loss, one eye  
   H54.7  Unspecified visual loss  
   H54.8  Legal blindness, as defined in USA

**Other disorders of eye and adnexa (H55-H57)**

H55  **Nystagmus and other irregular eye movements**  
   H55.0  Nystagmus  

H55.8  Other irregular eye movements

H57  **Other disorders of eye and adnexa**  
   H57.0  Anomalies of pupillary function  
   H57.1  Ocular pain  
   H57.8  Other specified disorders of eye and adnexa  
   H57.9  Unspecified disorder of eye and adnexa

**Intraoperative and postprocedural complications and disorders of eye and adnexa, not elsewhere classified (H59)**

H59  **Intraoperative and postprocedural complications and disorders of eye and adnexa, not elsewhere classified**
### Appendix C

#### Table of Drugs and Chemicals

<table>
<thead>
<tr>
<th>Substance</th>
<th>Poisoning, Accidental (unintentional)</th>
<th>Poisoning, Intentional self-harm</th>
<th>Poisoning, Assault</th>
<th>Poisoning, Undetermined</th>
<th>Adverse effect</th>
<th>Underdosing</th>
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<td>T36.0X2</td>
<td>T36.0X3</td>
<td>T36.0X4</td>
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<td>T36.0X6</td>
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### Appendix D

#### Table of Neoplasms

<table>
<thead>
<tr>
<th>Malignant Primary</th>
<th>Malignant Secondary</th>
<th>Ca In Situ</th>
<th>Benign</th>
<th>Uncertain Behavior</th>
<th>Unspecified Behavior</th>
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<tbody>
<tr>
<td>eye NEC</td>
<td>C69.9-</td>
<td>C79.49</td>
<td>D09.2</td>
<td>D31.9</td>
<td>D48.7</td>
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<td>overlapping sites</td>
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<td>eyeball</td>
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<td>C79.49</td>
<td>D09.2-</td>
<td>D31.9-</td>
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<td>D04.39</td>
<td>D23.39</td>
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