



AMERICAN ACADEMY
OF OPHTHALMOLOGY®

10/23/2018

American Academy of Ophthalmology IRIS® Registry (Intelligent Research in Sight) Analytics Data Dictionary

Disclaimer: This data dictionary covers the data elements found within the American Academy of Ophthalmology IRIS® Registry (Intelligent Research in Sight). The IRIS Registry database is comprised of de-identified data extracted from participating ophthalmology practices' electronic health records (EHRs,) and data completeness may vary depending on the data element for a number of reasons including if the element is routinely captured in an EHR, clinician documentation patterns, and differences in the structure of EHRs. Some data elements, for example patient medical history, patient ocular history, complications of treatment, etc., that are not specifically outlined in the data dictionary can be identified when they are documented in the record, but are not individual elements in the IRIS Registry database. There may be additional data elements collected by the IRIS Registry which are not captured in this data dictionary. Investigators are not necessarily restricted to only the elements outlined in this data dictionary, as we have the ability to mine other data fields included in electronic health record systems.



Patient Demographics											
Element ID: 1											
Name: Year of Birth											
Format: Date (YYYY)											
Values: 1890 – current year											
Supporting Definitions: none											
Missing: 2.8%											
Element ID: 2											
Name: Provider Zip code											
Format: Numerical											
Values:											
Supporting Definitions:											
Element ID: 3											
Name: Gender											
Format: Numerical (categorical)											
Values:											
<table border="1"> <thead> <tr> <th>Code</th> <th>Selection</th> </tr> <tr> <th colspan="2">Definition</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Male</td> </tr> <tr> <td>2</td> <td>Female</td> </tr> <tr> <td>-1</td> <td>Unknown/missing</td> </tr> </tbody> </table>		Code	Selection	Definition		1	Male	2	Female	-1	Unknown/missing
Code	Selection										
Definition											
1	Male										
2	Female										
-1	Unknown/missing										
Supporting Definitions: None											
Missing: 2.8%											



Patient Demographics

Element ID: 4

Name: Race-White

Format: Numerical (categorical)

Values:

Code	Selection
0	No
1	Yes
-1	Unknown/missing

Supporting Definitions: White (Race)

Having origins in any of the original peoples of Europe, the Middle East, or North Africa.

Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity

Element ID: 5

Name: Race - Black/African American

Format: Numerical (Categorical)

Values:

Code	Selection
0	No
1	Yes
-1	Unknown/missing

Supporting Definitions: Black/African American (Race)

Having origins in any of the black racial groups of Africa. Terms such as "Haitian" or "Negro" can be used in addition to "Black or African American."

Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity



Patient Demographics

Element ID: 6

Name: Race - Asian

Format: Numerical (Categorical)

Values:

Code	Selection
0	No
1	Yes
-1	Unknown/missing

Supporting Definitions: Asian (Race)

Having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent including, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam.

Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity

Element ID: 7

Name: Race-American Indian/Alaskan Native

Format: Numerical (Categorical)

Values:

Code	Selection
0	No
1	Yes
-1	Unknown/missing

Supporting Definitions: Race-American Indian/Alaskan Native (Race)

Having origins in any of the original peoples of North and South America (including Central America), and who maintains tribal affiliation or community attachment.

Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity



Patient Demographics

Element ID: 8

Name: Race-Native Hawaiian/Pacific Islander

Format: Numerical (Categorical)

Values:

Code	Selection
Definition	
0	No
1	Yes
-1	Unknown/missing

Supporting Definitions: Race-Native Hawaiian/Pacific Islander (Race)
Having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands.

Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity

Element ID: 9

Name: Hispanic or Latino Ethnicity

Format: Numerical (Categorical)

Values:

Code	Selection
Definition	
0	No
1	Yes
-1	Unknown/missing

Supporting Definitions: Hispanic or Latino Ethnicity

A person of Cuban, Mexican, Puerto Rican, Cuban, South or Central American, or other Spanish culture or origin, regardless of race. The term, "Spanish origin," can be used in addition to "Hispanic or Latino."

Source: U.S. Office of Management and Budget. Classification of Federal Data on Race and Ethnicity



Patient Demographics

Element ID: 10

Name: Insurance- Private Health Insurance

Format: Numerical (Categorical)

Values:

Code	Selection
	Definition
0	No
1	Yes
-1	Unknown/missing

Supporting Definitions: Supporting Definitions: Private Health Insurance
Private health insurance is coverage by a health plan provided through an employer or union or purchased by an individual from a private health insurance company.

Source: U.S. Census Bureau

Element ID: 11

Name: Insurance- Medicare FFS (Part B)

Format: Numerical (Categorical)

Values:

Code	Selection
	Definition
0	No
1	Yes
-1	Unknown/missing

Supporting Definitions: Medicare: Medicare is the Federal program which helps pay health care costs for people 65 and older and for certain people under 65 with long-term disabilities. The traditional system of reimbursement under health insurance and Medicare. Health care providers bill patients for services supplied, and costs are shared according to a contractual agreement between the patient and insurance company. A fee-for-service system allows patients maximum flexibility in the choice of providers and services.

Source: U.S. Census Bureau



Patient Demographics

Element ID: 12

Name: Insurance-Medicare Managed Care (Advantage Plans)

Format: Numerical (Categorical)

Values:

Code	Selection
	Definition
0	No
1	Yes
-1	Unknown/missing

Supporting Definitions: Medicare Advantage:

A type of Medicare health plan offered by a private company that contracts with Medicare to provide [beneficiaries] with all Part A and Part B benefits. Medicare Advantage Plans include Health Maintenance Organizations, Preferred Provider Organizations, Private Fee-for-Service Plans, Special Needs Plans, and Medicare Medical Savings Account Plans.

Source: Medicare.gov

Element ID: 13

Name: Insurance-Medicaid

Format: Numerical (Categorical)

Values:

Code	Selection
	Definition
0	No
1	Yes
-1	Unknown/missing

Supporting Definitions: Medicaid:

Medicaid is a program administered at the state level, which provides medical assistance to the needy. Families with dependent children, the aged, blind, and disabled who are in financial need are eligible for Medicaid. It may be known by different names in different states.

Source: U.S. Census Bureau



Patient Demographics

Element ID: 14

Name: Insurance-Military /Department of Defense/TRICARE

Format: Numerical (Categorical)

Values:

Code	Selection
0	No
1	Yes
-1	Unknown/missing

Supporting Definitions: Military Health care: Military health care includes TRICARE/CHAMPUS (Civilian Health and Medical Program of the Uniformed Services) and CHAMPVA (Civilian Health and Medical Program of the Department of Veterans Affairs), as well as care provided by the Department of Veterans Affairs (VA).

Source: U.S. Census Bureau

Element ID: 15

Name: Insurance- Other Government- State/Local government; Indian Health Service

Format: Numerical (Categorical)

Values:

Code	Selection
0	No
1	Yes
-1	Unknown/missing

Supporting Definitions:

State-specific plan - Some states have their own health insurance programs for low income uninsured individuals. These health plans may be known by different names in different states. (Non-Medicaid)

Indian Health Service (IHS)- is a health care program through which the Department of Health and Human Services provides medical assistance to eligible American Indians at IHS facilities. In addition, the IHS helps pay the cost of selected health care services provided at non-IHS facilities.

Source: U.S. Census Bureau



Patient Demographics

Element ID: 16

Name: Insurance- Miscellaneous/Other-Foreign National, Worker’s Comp, Auto Insurance

Format: Text (Categorical)

Values:

Code	Selection
0	No
1	Yes
-1	Unknown/missing

Supporting Definitions:

Element ID: 17

Name: Insurance- No Insurance/Payment Listed

Format: Text (Categorical)

Values:

Code	Selection
0	No
1	Yes

Supporting Definitions:

Element ID: 18

Name: Insurance Effective Date

Format: Date (Week#)

Values: (Week#/yyyy)

Supporting Definitions: Date on which the Insurance date is documented in EMR/EHR



Patient Demographics

Element ID: 19

Name: Immunization Date (week#)

Format: Date

Values: Week#x/yyyy

Supporting Definitions:



Patient History

Element ID: 20

Name: Smoking

Format: Text

Values:

Code	Selection
Definition	
1	Never
2	Current
3	Former

Supporting Definitions:



Clinical Examination Findings

Element ID: 21

Name: Visit Code

Format: Numerical

Values:

Supporting Definitions: The code assigned to a visit

Element ID: 22

Name: Visit Date

Format: Date (Week#)

Values: Week#x/yyyy

Supporting Definitions: The encounter date documented for a visit in an EMR/EHR.

Element ID: 23

Name: Visual Acuity Type

Format: Text (categorical)

Values:

Corrected Visual Acuity
Uncorrected Visual Acuity
Unspecified

Supporting Definitions:



Clinical Examination Findings

Element ID: 24

Name: Visual Acuity Laterality

Format: Text (categorical)

Values:

OD= Right
OS= Left
OU= Both

Supporting Definitions: The code assigned to a visit

Element ID: 25

Name: Visual Acuity

Format: Numerical

Values: Snellen, Jaeger

Supporting Definitions: AAO can convert Snellen to LogMAR

Element ID: 26

Name: Cup to Disc Date (week#)

Format: Date

Values: Week #x/yyyy

Supporting Definitions:

Element ID: 27

Name: Cup to Disc Value

Format: Ratio

Values: 0.01-0.99

Supporting Definitions:



Clinical Examination Findings

Element ID: 28

Name: Cup to Disc Laterality

Format: Text (categorical)

Values:

OD = Right
OS = Left
OU= Both

Supporting Definitions:

Element ID: 29

Name: Intraocular Pressure Date (week#)

Format: date

Values: Week #x/yyyy

Supporting Definitions:

Element ID: 30

Name: Intraocular Pressure Laterality

Format: Text (categorical)

Values:

OD= Right
OS= Left
OU= Both

Supporting Definitions:



Clinical Exam Findings

Element ID: 31

Name: Intraocular Pressure Measurement

Format: Numerical

Values: mmHG

Supporting Definitions:



Diagnoses, Procedures and Medications									
Element ID: 32									
Name: Procedure Date (week#)									
Format: Date									
Values: Week#x/yyyy									
Supporting Definitions:									
Element ID: 33									
Name: Procedure Laterality									
Format: Text (categorical)									
Values:									
	<table border="1"> <tr> <td>1</td> <td>OD (Right)</td> </tr> <tr> <td>2</td> <td>OS (Left)</td> </tr> <tr> <td>3</td> <td>OU (Both)</td> </tr> <tr> <td>4</td> <td>Unspecified</td> </tr> </table>	1	OD (Right)	2	OS (Left)	3	OU (Both)	4	Unspecified
1	OD (Right)								
2	OS (Left)								
3	OU (Both)								
4	Unspecified								
Supporting Definitions:									
Element ID: 34									
Name: Procedure									
Format: Numerical									
Values:									
	<table border="1"> <tr> <td>CPT</td> </tr> <tr> <td>HCPCS</td> </tr> </table>	CPT	HCPCS						
CPT									
HCPCS									
Supporting Definitions: This also includes modifiers if available.									
Element ID: 35									
Name: Diagnosis Date (week#)									
Format: Date									
Values: Week#x/yyyy									
Supporting Definition: The date on which the disease for a patient is documented\saved in the practice EMR\EHR.									



Diagnoses, Procedures and Medications									
<p>Element ID: 36</p> <p>Name: Diagnosis Laterality</p> <p>Format: Numerical (categorical)</p> <p>Values:</p> <table border="1"> <tr> <td>1</td> <td>OD (Right)</td> </tr> <tr> <td>2</td> <td>OS (Left)</td> </tr> <tr> <td>3</td> <td>OU (Both)</td> </tr> <tr> <td>4</td> <td>Unspecified</td> </tr> </table> <p>Supporting Definitions:</p>	1	OD (Right)	2	OS (Left)	3	OU (Both)	4	Unspecified	
1	OD (Right)								
2	OS (Left)								
3	OU (Both)								
4	Unspecified								
<p>Element ID: 37</p> <p>Name: Diagnosis</p> <p>Format: Alphanumeric</p> <p>Values:</p> <table border="1"> <tr> <td>ICD 9</td> </tr> <tr> <td>ICD10</td> </tr> <tr> <td>SNOMED</td> </tr> </table> <p>Supporting Definitions: Based on diagnosis codes and diagnosis date, AAO can determine past ocular history, past ocular systemic history, current diagnosis and complications of treatment.</p>	ICD 9	ICD10	SNOMED						
ICD 9									
ICD10									
SNOMED									
<p>Element ID: 38</p> <p>Name: Medication Code</p> <p>Format: Numerical</p> <p>Values: RX Norm, NDC codes, Generic Product Identifier (GPI)</p> <p>Supporting Definitions:</p>									



Diagnoses, Procedures and Medications
Element ID: 39 Name: Medication Name Format: Text Values: Supporting Definitions: Drug name extracted from EMR/EHR
Element ID: 40 Name: Medication Start Date (week#) Format: date Values: Week#x/yyyy Supporting Definitions:
END