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# Introduction to ICD-11

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March 19, 2021

# Desired Outcomes

At the end of this presentation, attendees will be able to:

- Understand the underlying ICD-11 code structure and organization
- Compare and contrast ICD-11 MMS codes with ICD-10-CM codes
- Classify diagnoses using the WHO ICD-11 MMS coding tool, browser and guidelines

# Implementation of ICD-11

- The World Health Assembly adopted ICD-11 May 2019, for implementation 1/1/22
- NCVHS tasked with evaluating pathways and making recommendations to HHS on the adoption and use of ICD-11 in the US
- NCVHS subcommittee on standards held an ICD-11 expert roundtable in August 2019
- NCVHS letter to HHS November 2019 with recommendations on preparing for adoption of ICD-11 as a mandated US health data standard
- Adoption of ICD-11 by the US has two distinct dimensions:
  - Mortality reporting
    - cause of death reporting on death certificates (condition of WHO membership)
  - Morbidity reporting
    - diseases/disorders reported on healthcare claims (HIPAA-designated code set)

# Implementation of ICD-11 for Morbidity Reporting

The actual implementation date will depend on:

- Regulatory vs. sub-regulatory process
- Changing the diagnosis code set alone vs. both diagnosis and procedure code set update
- Adopting a linearization of ICD-11 vs. creating a clinical modification (ICD-11-CM)

# Overview of ICD-11 Content and Structure

- ICD-11 (Foundation)
  - <https://icd.who.int/dev11/f/en>
- ICD-11 for Mortality and Morbidity (ICD-11 MMS)
  - <https://icd.who.int/browse11/l-m/en>

# ICD-11 (Foundation)

The Foundation is the data source for:

- ICD entities and their Uniform Resource Identifiers (URI)
- Building a linearization (Tabular List)
  - Examples: Mortality and Morbidity Statistics (MMS), primary care, traditional medicine, dermatology
- Index
  - Synonyms

collection of ALL  
ICD entities:  
diseases, disorders,  
injuries, external  
causes, sign and  
symptoms  
(the ICD Universe)

# ICD-11 Linearization

- A subset of the foundation fit for a particular purpose (e.g. MMS)
  - Selected entities become Tabular List categories
- Jointly Exhaustive of ICD Universe (Foundation)
- Composed of entities that are mutually exclusive of each other
- Each entity is given a single parent

Key Difference from ICD-10:  
ICD-11 foundation is the source  
for a linearization

# ICD-11-MMS Structure and Content

- Overall chapter structure much the same as ICD-10
- Code structure
  - Minimum of four characters
    - First character relates to the chapter (number or letter)
    - Second character is always a letter
    - Third character is always a number
  - Terminal character
    - Y reserved for other specified
    - Z reserved for unspecified



# Example of ICD-11 MMS Codes

WHO ICD-11 MMS	United States ICD-10-CM
<p>BA00 Essential hypertension</p> <p>BA00.0 Combined diastolic and systolic hypertension</p> <p>BA00.1 Isolated diastolic hypertension</p> <p>BA00.2 Isolated systolic hypertension</p> <p>BA00.Y Other specified essential hypertension</p> <p><b>BA00.Z Essential hypertension, unspecified</b></p> <p><u>Matching terms:</u> hypertension NOS, essential hypertension, idiopathic hypertension, primary hypertension, arterial hypertension NOS</p>	<p><b>I10 Essential (primary) hypertension</b></p> <p><u>Includes:</u></p> <p>High blood pressure</p> <p>Hypertension (arterial) (benign) (essential) (malignant) (primary) (systemic)</p>

# Terms and Classification Concepts

- Stem code
- Extension code
- Pre-coordination
- Post-coordination
  - Cluster coding
- Sanctioning rules
  - Permissible combinations of stem codes and extension codes

New concepts  
not found in ICD-10-CM

# ICD-11 MMS Stem Code

- Codes in a particular tabular list
- Organized in 26 chapters that follow the traditional pattern of ICD
- Can be used alone or in combination
- Combining syntax:
  - forward slash (/) separates two stem codes
  - ampersand (&) links a stem code with an extension code

# ICD-11 MMS Extension Code

- Used to limit content volume but allow detailed classification of disease entities
- Provide the basis for post-coordination
- Standardize the way additional information is added to a stem code
- Can never be used without a stem code and never appear in the first position of a cluster
- Not all extension codes can be used with every stem code
- Extension codes start with an “X”

# ICD-11 MMS Extension Codes

<b>Type 1: Adds detail to the diagnosis represented by the stem code</b>	<b>Type 2: Diagnosis code descriptors that alter the interpretation</b>
<ul style="list-style-type: none"><li>• Severity scale value</li><li>• Temporality</li><li>• Etiology</li><li>• Topology scale value</li><li>• Anatomy and topography</li><li>• Histopathology</li><li>• Dimensions of injury</li><li>• Dimensions of external causes</li><li>• Consciousness</li><li>• Substances</li></ul>	<ul style="list-style-type: none"><li>• Diagnosis code descriptors<ul style="list-style-type: none"><li>◦ Discharge diagnosis types</li><li>◦ Diagnosis timing</li><li>◦ Diagnosis timing in relation to surgical procedure</li><li>◦ Diagnosis method of confirmation</li><li>◦ Diagnosis certainty</li><li>◦ Obstetrical diagnosis timing</li></ul></li><li>• Capacity or context</li><li>• Health devices, equipment and supplies<ul style="list-style-type: none"><li>◦ Assistive devices</li><li>◦ Medical devices</li><li>◦ Sets, kits, systems</li></ul></li></ul>

# ICD-11-MMS Pre- and Post-Coordination

- Pre-coordination
  - A stem code that contains pertinent information about a clinical concept in a pre-combined fashion
- Post-coordination
  - Linking multiple codes (through cluster coding) to describe a single diagnosis, condition or event
- Sanctioning rules
  - Embedded in the Foundation
  - Permissible code combinations
    - Prevents creation of combinations that already exist (pre-coordinated)
    - Prevents impossible combinations

Key Difference  
from ICD-10:  
Pre-coordinated  
Post-coordinated

# Examples of ICD-11 MMS Codes

ICD-11 MMS Post-coordinated Codes	ICD-10-CM Pre-coordinated Codes
<b>Code assignment for: Osteoarthritis, right knee</b>	
FA01.Z: Osteoarthritis of knee, unspecified XK9K: Right Code cluster= <b>FA01.Z &amp; XK9K</b>	<b>M17.11:</b> Unilateral primary osteoarthritis, right knee
<b>Code assignment for: Lumbar spinal stenosis</b>	
FA82: Spinal stenosis XA0D60: lumbar vertebra Code cluster = <b>FA82 &amp; XA0D60</b>	<b>M48.061:</b> spinal stenosis, lumbar region without neurogenic claudication

WHO ICD-11 MMS	United States ICD-10-CM
CA23 Asthma CA23.0 Allergic asthma CA23.00 Allergic asthma with exacerbation CA23.01 Allergic asthma with status asthmaticus CA23.02 Allergic asthma, uncomplicated CA23.0Z Allergic asthma, unspecified CA23.1 Non-allergic asthma CA23.10 Non-allergic asthma with exacerbation CA23.11 Non-allergic asthma with status asthmaticus CA23.12 Non-allergic asthma, uncomplicated CA23.2 Other specified forms of asthma or bronchospasm CA23.20 Aspirin-induced asthma CA23.21 Exercise-induced asthma CA23.22 Cough variant asthma CA23.3 Unspecified asthma CA23.30 Unspecified asthma with exacerbation CA23.31 Unspecified asthma with status asthmaticus CA23.32 Unspecified asthma, uncomplicated	J45 Asthma J45.2 Mild Intermittent asthma J45.20 Mild intermittent asthma, uncomplicated J45.21 Mild intermittent asthma with (acute) exacerbation J45.22 Mild intermittent asthma with status asthmaticus J45.3 Mild persistent asthma J45.30 Mild persistent asthma, uncomplicated J45.31 Mild persistent asthma with (acute) exacerbation J45.32 Mild persistent asthma with status asthmaticus J45.4 Moderate persistent asthma J45.40 Moderate persistent asthma, uncomplicated J45.41 Moderate persistent asthma with (acute) exacerbation J45.42 Moderate persistent asthma with status asthmaticus J45.5 Severe persistent asthma J45.50 Severe persistent asthma, uncomplicated J45.51 Severe persistent asthma with (acute) exacerbation J45.52 Severe persistent asthma with status asthmaticus J45.9 Other and unspecified asthma J45.90 Unspecified asthma J45.901 Unspecified asthma with (acute) exacerbation J45.902 Unspecified asthma with status asthmaticus J45.909 Unspecified asthma, uncomplicated (asthma NOS) J45.99 Other asthma J45.990 Exercise induced bronchospasm J45.991 Cough variant asthma J45.998 Other asthma
Post-coordination: Has Severity (use additional code, if desired) XS5W Mild XS0T Moderate XS25 Severe	



# Examples of ICD-11 MMS Codes

ICD-11 MMS Post-coordinated Codes	ICD-10-CM Pre-coordinated Codes
<b>Code assignment for: Moderate persistent cough variant asthma</b>	
CA23.22: Cough variant asthma XS0T: Moderate Code Cluster= <b>CA23.22 &amp; XS0T</b>	<b>J45.40</b> : Moderate persistent asthma, uncomplicated OR <b>J45.991</b> : Cough variant asthma
<b>Code assignment for: Mild intermittent allergic asthma, with exacerbation</b>	
CA23.00: Allergic asthma with exacerbation XS5W: Mild Code cluster = <b>CA23.00 &amp; XS5W</b>	<b>J45.21</b> : Mild intermittent asthma with exacerbation

# Examples of ICD-11 MMS Codes

ICD-11 MMS Codes	ICD-10-CM Codes
<b>Code assignment for: ASHD, native coronary artery</b>	
<b>BA80.0:</b> Coronary atherosclerosis of native coronary artery	<b>I25.10:</b> Atherosclerotic heart disease of native coronary artery without angina pectoris
<b>Code assignment for: ASHD, native coronary artery with unstable angina</b>	
BA80.0: Coronary atherosclerosis of native coronary artery BA40.0: [Associated with] Unstable angina Code cluster = <b>BA80.0/ BA40.0</b>	<b>I25.110:</b> Atherosclerotic heart disease of native coronary artery with unstable angina pectoris

# Examples of ICD-11 MMS Codes

ICD-11 MMS Codes	ICD-10-CM Codes
<b>Code assignment for: Diabetes, Type 2</b>	
<b>5A11:</b> Type 2 diabetes mellitus	<b>E11.9:</b> Type 2 diabetes without complication
<b>Code assignment for: Diabetic ketoacidosis; Type 1 DM</b>	
5A22.0: Diabetic ketoacidosis without coma 5A10: [Has causing condition] Type 1 diabetes mellitus Code cluster = <b>5A22.0/ 5A10</b>	<b>E10.10:</b> Type 1 diabetes mellitus with ketoacidosis without coma




# ICD-11 MMS Guidelines

- ‘Code also’ instruction
  - Mandatory cluster coding
- ‘Use additional code, if desired’ instruction
  - Optional additional detail for coding
- And
  - ‘A and B’ means that both, A and B, must be present in order to use that category.
- Or
  - Or means ‘and/or’
- Excludes
  - General exclusions for a range of categories or for all subcategories are found in the notes heading ‘Excludes’, immediately following a chapter, group or category title.
- Exclusions
  - Certain categories contain lists of conditions preceded by the word ‘Exclusions’. These are terms which are classified elsewhere

# WHO ICD-11 MMS Tools

- Coding Tool
  - [https://icd.who.int/ct11/icd11\\_mms/en/release](https://icd.who.int/ct11/icd11_mms/en/release)
- Browser
  - <https://icd.who.int/browse11/l-m/en>

# Coding Tool Functionality

- Turn on chapter distribution filter and tick the box for Extension Codes.
- Codes for non-terminal categories (i.e., categories which have children) are rendered with a grey background
- Icons to the right of the entities list
  - Post-coordination is available for this entity: 
  - Post-coordination is mandatory for this entity: 
  - Coding note is available for this entity: 
- [Details] link to the right of the result opens further information about the entity
- Integrated browser
  - Clicking on the maximize icon (the small square) opens the ICD-11 browser within the coding tool
  - Search results only opens the hierarchy of the selected code. However, you may make the children of every entity visible by clicking on the small triangles shown on the left side of the screen in the classification

# Browser Tool Functionality

- When you move your mouse on any icon or a button for a second or so, the system will give you more information on the functionality of the icon.
- When browsing ICD-11, you will see the classification hierarchy on the left side of the screen. Clicking on any item will display the details of that entity on the right side of the screen
  - Initially, the system only shows the top level items. However, you may make the children visible by clicking on the small triangles on the left side of the items.
- Use the button to close all the open branches and return back to the top level hierarchy



# Browser Tool Tips

- Quick search searches the titles, inclusions, synonyms and narrower terms and it works by starting to search as you type and provides you options in a dynamic dropdown list
- You may also use \* to find similar words or to simply save some typing
- Advanced search lets you search selected properties of the classification. You could search all properties or a selected subset only
- To build a code, click on the values that are displayed in the search results, in the hierarchy or in the shorter lists



# Coding Exercise: Inguinal hernia with obstruction

[https://icd.who.int/ct11/icd11\\_mms/en/release](https://icd.who.int/ct11/icd11_mms/en/release)

**ICD-11 Coding Tool** Mortality and Morbidity Statistics (MMS) 2020-09

Inguinal hernia ✕

Guessing the word being typed... Filter

**Word list** sort: Relatedness/repetition ▼

hernia

**Destination Entities** sort: Matching score ▼

<b>DD51</b>	<b>Inguinal hernia</b>	<span>J</span> <span>☰</span> <span>+</span> <span>[Details]</span>
<b>DD5Y</b>	Other specified <b>hernias</b> <b>Groin hernia</b>	<span>J</span> <span>+</span> <span>[Details]</span>

# Coding Exercise: Left inguinal hernia with obstruction

Destination Entities sort: Matching score

**DD51 Inguinal hernia**

**Description**  
A hernia occurs when part of an internal organ bulges through a weak area of muscle. Most hernias occur in the abdomen. Inguinal hernia is the most common type and is in the groin.

**Additional Information**  
Inguinal hernia is the disease with abnormal passage of an internal abdominal organ or structure through the inguinal canal. The spectrum of the disease is very broad, manifesting incidental findings to symptomatic hernias showing groin pain to surgical emergencies like incarceration or strangulation of hernia sac contents. The disease can be classified by the location of herniation as indirect inguinal hernia and direct inguinal hernia. Indirect hernias occur through the internal inguinal ring and common in children and young adults, but direct hernias occur through defects in the abdominal wall in Hesselbach's triangle and are common in adults.

**Inclusions**  
bubonocele  
scrotal hernia

**Matching Terms** [Show all \[79\]](#)  
Inguinal hernia NOS  
indirect **inguinal hernia**  
direct **inguinal hernia**  
oblique **inguinal hernia**  
IH - [**inguinal hernia**]

**Related categories in maternal chapter**  
Diseases of the digestive system complicating pregnancy, childbirth or the puerperium / Inguinal hernia

**Coding Note**  
Use additional codes, if desired, to identify complications such as obstruction or gangrene.

**Postcoordination**  
Postcoordination is available: [click here to open the browser](#)

**DD5Y** Other specified **hernias**  
**Groin hernia**

Inguinal hernia  
Code and Description

Coding Note  
Post coordination

Click here to open the  
browser

# Coding Exercise: Left inguinal hernia with obstruction

The screenshot displays the ICD-11 Coding Tool interface. On the left, a navigation tree shows the hierarchy: Diseases of the digestive system > Hernias > DD50 Non-abdominal wall hernia > DD51 Inguinal hernia. The main panel shows the details for DD51 Inguinal hernia, including its description, additional information, inclusions, exclusions, matching terms, and related categories. A coding note specifies that additional codes should be used to identify complications like obstruction or gangrene. A laterality section lists codes for bilateral, left, right, and unilateral hernias.

**ICD-11 Coding Tool** Mortality and Morbidity Statistics (MMS) 2020-09 Help

**DD51 Inguinal hernia** Foundation URI: <http://id.who.int/icd/entity/474718032>

**Code:** DD51 Select

**Description**  
A hernia occurs when part of an internal organ bulges through a weak area of muscle. Most hernias occur in the abdomen. Inguinal hernia is the most common type and is in the groin.

**Additional Information**  
Inguinal hernia is the disease with abnormal passage of an internal abdominal organ or structure through the inguinal canal. The spectrum of the disease is very broad, manifesting incidental findings to symptomatic hernias showing groin pain to surgical emergencies like incarceration or strangulation of hernia sac contents. The disease can be classified by the location of herniation as indirect inguinal hernia and direct inguinal hernia. Indirect hernias occur through the internal inguinal ring and common in children and young adults, but direct hernias occur through defects in the abdominal wall in Hesselbach's triangle and are common in adults.

**Inclusions**  
bubonocele  
scrotal hernia

**Exclusions from above levels** [Show all \[6\]](#)

**Matching Terms** [Show all \[79\]](#)  
Inguinal hernia NOS  
indirect **inguinal hernia**  
direct **inguinal hernia**  
oblique **inguinal hernia**  
IH - [**inguinal hernia**]

**Related categories in maternal chapter**  
Diseases of the digestive system complicating pregnancy, childbirth or the puerperium / Inguinal hernia ([J864.6/DD51](#))

**Coding Note**  
Use additional codes, if desired, to identify complications such as obstruction or gangrene.

**Postcoordination**  
**Laterality** (use additional code, if desired .)  
XX9J Bilateral  
XX8G Left  
XX9K Right  
XX70 Unilateral, unspecified

# Coding Exercise: Left inguinal hernia with obstruction

**Code:** DD51&XK8G

**Additional Information**  
Inguinal hernia is the disease with abnormal passage of an internal abdominal organ or structure through a defect in the abdominal wall, manifesting incidental findings to symptomatic hernias showing groin pain to surgical emergencies like incarceration or strangulation. It is classified by the location of herniation as indirect inguinal hernia and direct inguinal hernia. Indirect hernias occur through the inguinal ring in young adults, but direct hernias occur through defects in the abdominal wall in Hesselbach's triangle and are common in older adults.

**Inclusions**  
bubonocele  
scrotal hernia

**Exclusions from above levels** [Show all \[6\]](#)

**Matching Terms** [Show all \[79\]](#)

**Inguinal hernia** NOS  
indirect **inguinal hernia**  
direct **inguinal hernia**  
oblique **inguinal hernia**  
IH - [**inguinal hernia**]

**Related categories in maternal chapter**  
Diseases of the digestive system complicating pregnancy, childbirth or the puerperium / Inguinal hernia ([JB64.6/DD51](#))

**Coding Note**  
Use additional codes, if desired, to identify complications such as obstruction or gangrene.

**Postcoordination**

Laterality **XK8G** Left ✖

Laterality (use additional code, if desired .)

- XK9J** Bilateral
- XK8G** Left
- XK9K** Right
- XK70** Unilateral, unspecified

**Code Selection:  
DD51 & XK8G**

**Laterality (use  
additional code, if  
desired)**

# Coding Exercise: Left inguinal hernia with obstruction

Code: DD51&XK8G

**Additional Information**

Inguinal hernia is the disease with abnormal passage of an internal abdominal organ or structure through the inguinal canal, manifesting incidental findings to symptomatic hernias showing groin pain to surgical emergencies like incarceration or strangulation, classified by the location of herniation as indirect inguinal hernia and direct inguinal hernia. Indirect hernias occur through the abdominal wall in young adults, but direct hernias occur through defects in the abdominal wall in Hesselbach's triangle and are common in older adults.

**Inclusions**

bubonocele  
scrotal hernia

**Exclusions from above levels** [Show all \[6\]](#) ▾

**Matching Terms** [Show all \[79\]](#) ▾

**Inguinal hernia** NOS  
indirect **inguinal hernia**  
direct **inguinal hernia**  
oblique **inguinal hernia**  
IH - [**inguinal hernia**]

**Related categories in maternal chapter**  
Diseases of the digestive system complicating pregnancy, childbirth or the puerperium / Inguinal hernia ([J864.6/DD51](#))

**Coding Note**

Use additional codes, if desired, to identify complications such as obstruction or gangrene.

**Postcoordination**

Laterality **XK8G** Left ✖

Laterality (use additional code, if desired .)

- XK9J** Bilateral
- XK8G** Left
- XK9K** Right
- XK70** Unilateral, unspecified

Has manifestation (use additional code, if desired .)

search in axis: Has manifestation

▸ **ME24** Clinical manifestations of the digestive system

Has manifestation (use additional code, if desired)

# Coding Exercise: Left inguinal hernia with obstruction

Code: DD51&XK8G / ME24.2

**Inguinal hernia** NOS  
indirect **inguinal hernia**  
direct **inguinal hernia**  
oblique **inguinal hernia**  
IH - [**inguinal hernia**]

**Related categories in maternal chapter**  
Diseases of the digestive system complicating pregnancy, childbirth or the puerperium / Inguinal hernia

**Coding Note**  
Use additional codes, if desired, to identify complications such as obstruction or gangrene.

**Postcoordination**

Laterality **XK8G** Left ✘  
Has manifestation **ME24.2** Digestive system obstruction ✘

**Laterality** (use additional code, if desired .)  
**XK9J** Bilateral  
**XK8G** Left  
**XK9K** Right  
**XK70** Unilateral, unspecified

**Has manifestation** (use additional code, if desired .)  
obstruction

- ME24 Clinical manifestations of the digestive system
  - ME24.0 Digestive system abscess
  - ME24.1 Digestive system fistula
  - ME24.2 Digestive system obstruction
  - ME24.3 Digestive system perforation
  - ME24.4 Digestive system stenosis
  - ME24.5 Digestive system ulcer
  - ME24.6 Digestive system dilatation
  - ME24.7 Digestive system incarceration
  - ME24.8 Digestive system strangulation or gangrene
  - ME24.9 Gastrointestinal bleeding
  - ME24.A Other digestive system haemorrhage, not elsewhere classified
  - ME24.Y Other specified clinical manifestations of the digestive system

Code Selection:  
DD51 & XK8G / ME24.2

Has manifestation  
Obstruction

# Final Thoughts

- Stay tuned as ICD-11 transition planning continues
- Implementation timeline depends on the regulatory approach and the transition plan
- Explore ICD-11 MMS in the WHO coding tool and browser
- Subscribe to our blog to follow along as we share what we learn
- Contact us to learn more about the structure and implications of ICD-11

# References and Resources

- World Health Organization. (n.d.). ICD-11. <https://icd.who.int/en>
- NCVHS Recommendation to HHS Secretary on Regulatory Simplification of the ICD, February 21, 2019 <https://ncvhs.hhs.gov/wp-content/uploads/2019/03/Recommendation-Letter-Regulatory-Simplification-of-ICD.pdf>
- NCVHS, Subcommittee on Standards, ICD-11 Evaluation Expert Roundtable Meeting August 6-7, 2019 <https://ncvhs.hhs.gov/meetings/subcommittee-on-standards-icd-11-evaluation-expert-roundtable-meeting/>
- AHIMA Under the Dome. “AHIMA participates in ICD-11 Expert Roundtable.” Posted August 28, 2019. <https://journal.ahima.org/2019/08/28/ahima-participates-in-icd-11-expert-roundtable/>
- NCVHS Recommendation to HHS Secretary on Preparing for Adoption of ICD-11, November 25, 2019 <https://ncvhs.hhs.gov/wp-content/uploads/2019/12/Recommendation-Letter-Preparing-for-Adoption-of-ICD-11-as-a-Mandated-US-Health-Data-Standard-final.pdf>



# Questions?



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# UASI at a Glance

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<b>Headquarters:</b>	Cincinnati, Ohio
<b>Founded:</b>	1984
<b>Clients:</b>	200+ hospitals/health systems nationwide
<b>Team:</b>	450+ employees, including AHIMA/AAPC-certified coders, HIM and clinical documentation specialists
<b>Charts handled annually:</b>	3.75 million coded; 200,000 audited
<b>Solutions:</b>	Coding Services, Coding Reviews, Clinical Documentation Improvement, Revenue Integrity, HIM Solutions, Strategic Consulting

## Experience

- HIM Management: 22 years
- Remote coding staff: 8+ years
- Coding auditor staff: 18 years

## Quality

- 97% accuracy in coding
- 100% target for accuracy, certification and meeting industry standards

## Reliability

- 35+ years in business
- 40 clients in US News & World Report best regional and honor roll hospitals

## Culture

- People-centric, team-driven culture
- High employee satisfaction
- 20% new hires referred from current employees
- Industry-leading average employee tenure