SEPSIS COLLABORATIVE MEETING

SEPTEMBER 3RD, 2025

AGENDA

- 2026 Data Dictionary Updates – Inclusion Variables

- Questions

2026 DATA DICTIONARY UPDATES

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INCLUSION VARIABLES

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PURPOSE OF UPDATES

- Seeking to update the adult and pediatric Data Dictionaries to better identify which diagnoses qualified cases for inclusion in sepsis reporting

- The current inclusion definition for the Data Dictionaries is as follows: Hospitals may use all sources of data for case inclusion (electronic medical record codes as well as administrative and billing codes); however, cases should only be reported if one of the below inclusion codes is a final diagnosis

Table A: Severe sepsis and/or septic shock inclusion ICD-10-CM codes

Severe Sepsis/Septic Shock	
ICD-10-CM	Description
R6520	Severe sepsis without septic shock
R6521	Severe sepsis with septic shock
T8112XA	Post procedural septic shock, initial encounter

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PURPOSE OF UPDATES (CONTINUED)

Issue:

- Currently, the quarterly Tableau reports and annual public report only include cases if a severe sepsis/septic shock (SS/SS) ICD-10-CM code from Table A was submitted for the *ICD-10-CM Code (n)* variable, which collects up to 25 final billed hospital codes

    - Using the *ICD-10-CM Code (n)* variable is the only way that IPRO and the Department can currently identify if a case had severe sepsis or septic shock and if the severe sepsis or septic shock was present on admission (POA) or not

- If a SS/SS ICD-10-CM code is not in the 25 final billed hospital codes, then the case submitted by the hospital is not included in the quarterly and annual reports

PURPOSE OF UPDATES (CONTINUED)

Proposal:

- Update the Data Dictionaries to collect information for each submitted patient on:

  (1) what ICD-10-CM code from Table A qualified them for submission and

  (2) if that ICD-10-CM code was POA or not

- This addition will allow for all submitted cases with a final diagnosis code from Table A to be considered for inclusion in the reports even if that code is not reported in the *ICD-10-CM Code (n)* variables

DATA DISCREPANCIES

- For 2024 adult data submissions, IPRO conducted an analysis to identify discrepancies between submitted ICD-10-CM codes and *Inclusion Severe Sepsis* and *Inclusion Septic Shock* variables

- IPRO also conducted an analysis to determine the number of ICD-10-CM codes reported by each case

DATA DISCREPANCIES (CONTINUED)

- *Inclusion Severe Sepsis*

  - Data Dictionary variable - "Indicates that the patient has severe sepsis"

- *Inclusion Septic Shock*

  - Data Dictionary variable - "Indicates that the patient has septic shock"

- **Cases with SS/SS Code Reported**

  - Cases with at least one code from Table A reported for *ICD-10-CM Code (n)* variable

- **Cases without SS/SS Code Reported**

  - Cases without at least one code from Table A reported for *ICD-10-CM Code (n)* variable

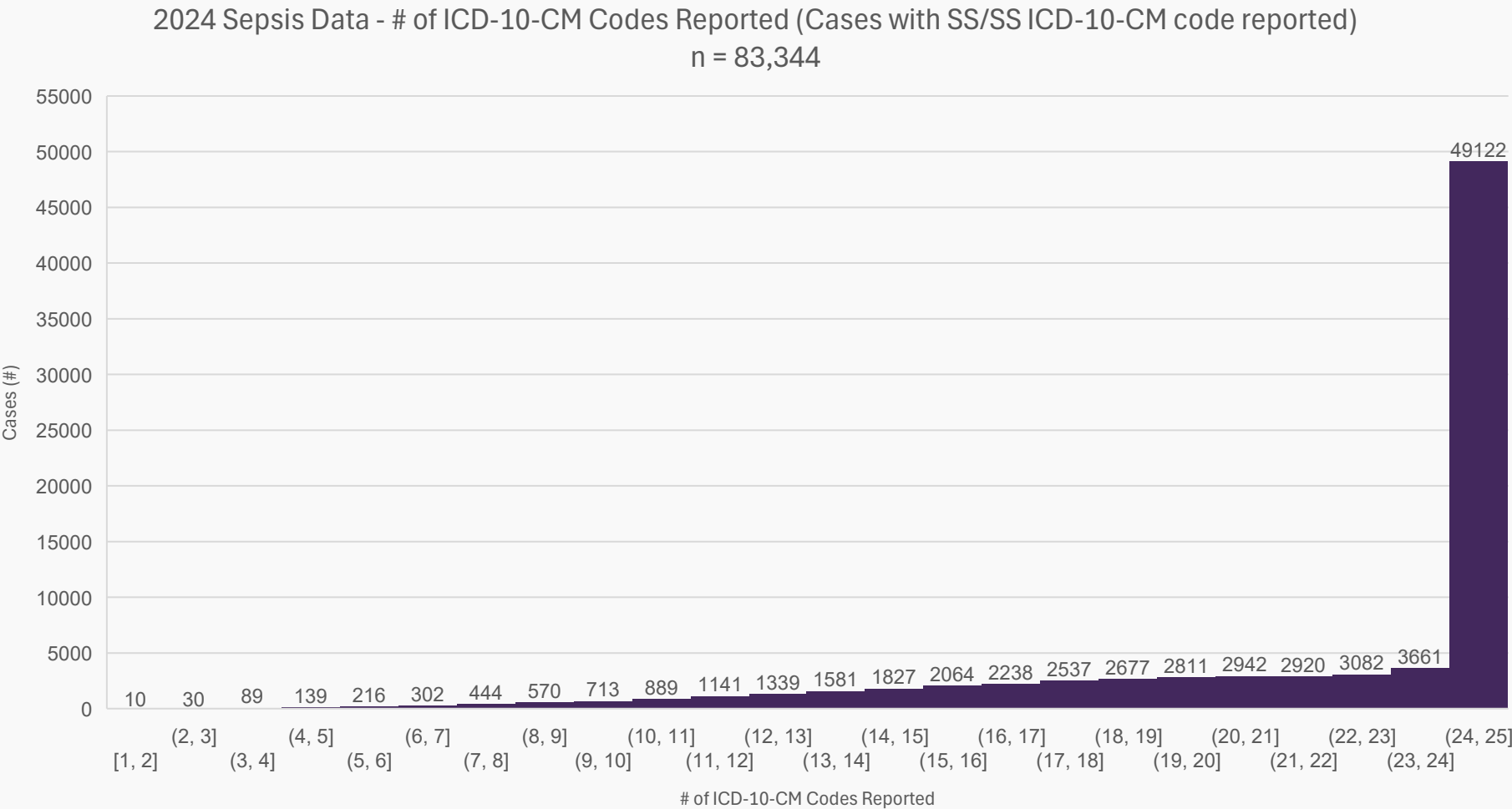| Severe Sepsis/Septic Shock	
ICD-10-CM	**Description**
R6520	Severe sepsis without septic shock
R6521	Severe sepsis with septic shock
T8112XA	Post procedural septic shock, initial encounter

DATA DISCREPANCIES – 2024 ADULT DATA

	Number Reported Cases (% Total)
Total Cases Reported	**89,376 (100)**
Cases with SS/SS ICD-10-CM code reported	83,344 (93.3)
Cases with no SS/SS ICD-10-CM code reported	6,032 (6.7)

	Number Reported Cases (% Total)
Cases Reported with no SS/SS ICD-10-CM code reported	6,032 (6.7)
- Cases with no SS/SS ICD-10-CM code reported **and** SS/SS Inclusion variable = No *(majority reported COVID-19 codes)*	3,352 (3.8)
- Cases with no SS/SS ICD-10-CM code reported **and** at least one SS/SS inclusion variable = Yes	2,680 (3.0)

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ICD-10-CM CODE ANALYSIS – 2024 ADULT DATA

2024 Sepsis Data - # of ICD-10-CM Codes Reported (Cases with SS/SS ICD-10-CM code reported)
n = 83,344

Chart data:
- [1, 2]: 10
- (2, 3]: 30
- (3, 4]: 89
- (4, 5]: 139
- (5, 6]: 216
- (6, 7]: 302
- (7, 8]: 444
- (8, 9]: 570
- (9, 10]: 713
- (10, 11]: 889
- (11, 12]: 1141
- (12, 13]: 1339
- (13, 14]: 1581
- (14, 15]: 1827
- (15, 16]: 2064
- (16, 17]: 2238
- (17, 18]: 2537
- (18, 19]: 2677
- (19, 20]: 2811
- (20, 21]: 2942
- (21, 22]: 2920
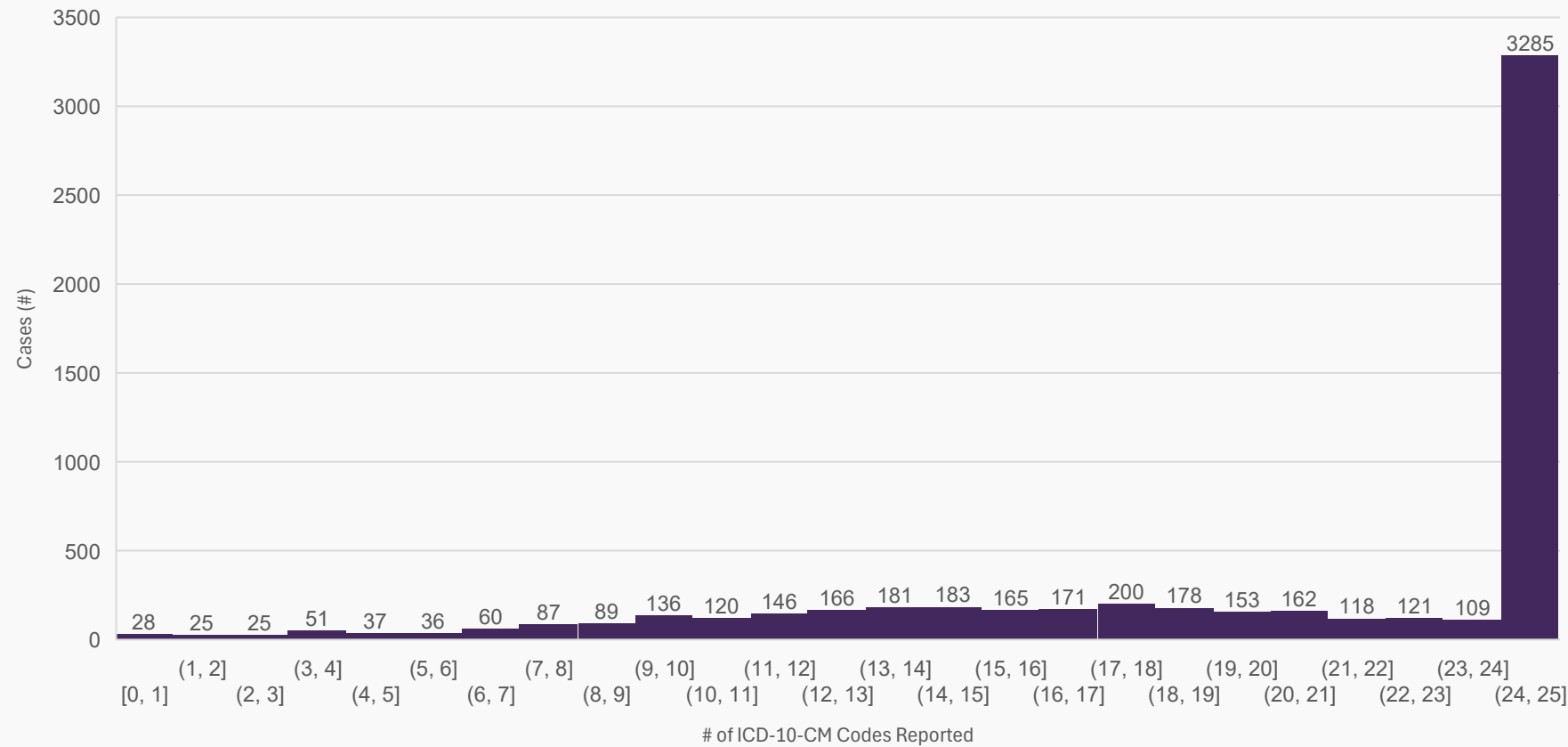- (22, 23]: 3082
- (23, 24]: 3661
- (24, 25]: 49122

Y-axis: Cases (#)
X-axis: # of ICD-10-CM Codes Reported

- This chart represents the **83,344 cases** that have R65.20, R65.21, or T81.12XA included in the reported 25 codes
- The majority **(58.9%; 49,122)** of these cases reported 25 ICD-10-CM codes
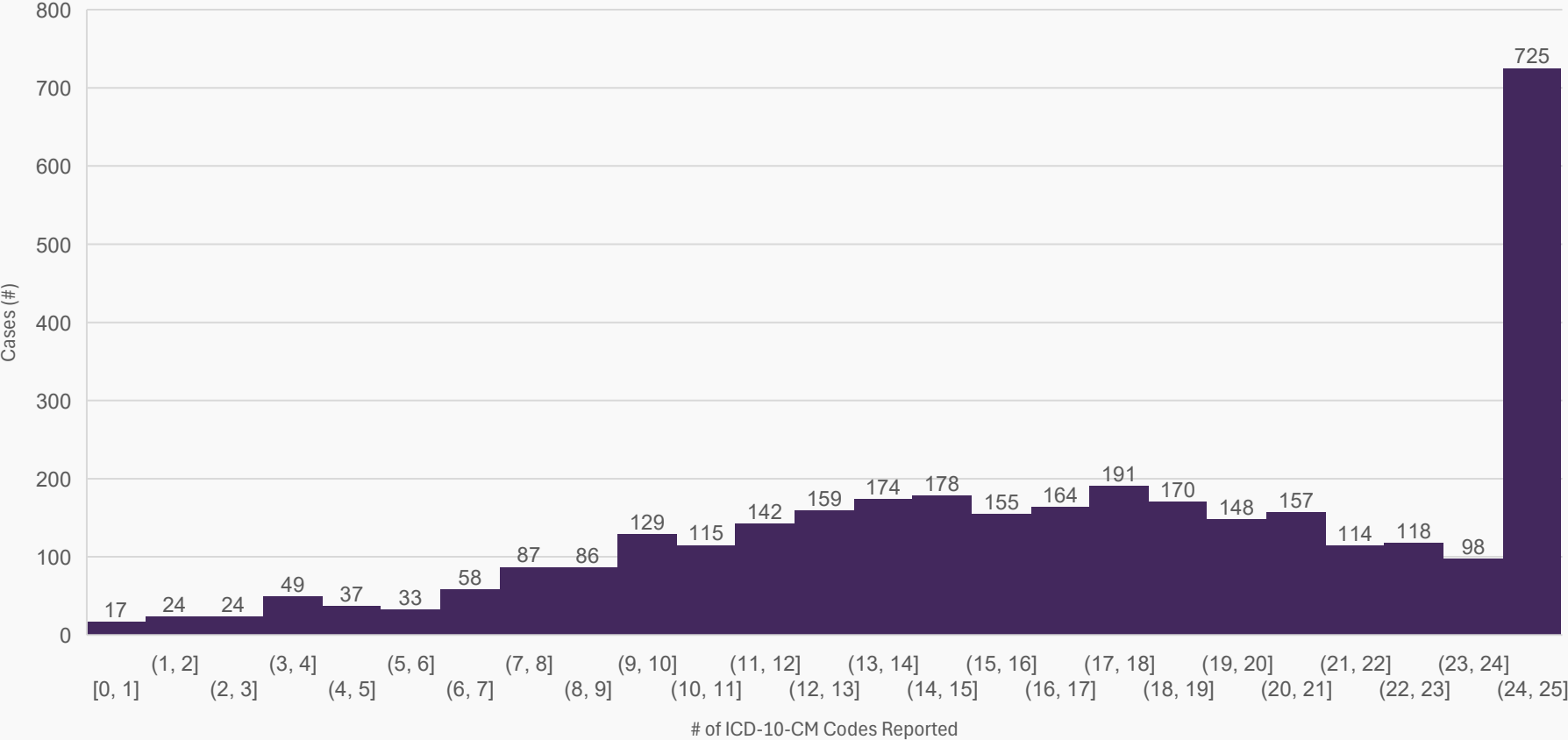
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ICD-10-CM CODE ANALYSIS – 2024 ADULT DATA

2024 Sepsis Data - # of ICD-10-CM Codes Reported (Cases without SS/SS ICD-10-CM code reported)
n = 6,032

Chart: Cases (#) vs. # of ICD-10-CM Codes Reported

Bar values by bin:
- [0, 1]: 28
- (1, 2]: 25
- (2, 3]: 25
- (3, 4]: 51
- (4, 5]: 37
- (5, 6]: 36
- (6, 7]: 60
- (7, 8]: 87
- (8, 9]: 89
- (9, 10]: 136
- (10, 11]: 120
- (11, 12]: 146
- (12, 13]: 166
- (13, 14]: 181
- (14, 15]: 183
- (15, 16]: 165
- (16, 17]: 171
- (17, 18]: 200
- (18, 19]: 178
- (19, 20]: 153
- (20, 21]: 162
- (21, 22]: 118
- (22, 23]: 121
- (23, 24]: 109
- (24, 25]: 3285

- This chart represents the **6,032 cases** that do not have R65.20, R65.21, or T81.12XA included in the reported 25 codes
- The majority **(54.5%; 3,285)** of these cases reported 25 ICD-10-CM codes, which might suggest that the codes for inclusion exist beyond the 25 reported codes

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ICD-10-CM CODE ANALYSIS – 2024 ADULT DATA

2024 Sepsis Data - # of ICD-10-CM Codes Reported (Cases without SS/SS ICD-10-CM code reported; All Inclusion Variable = "No")
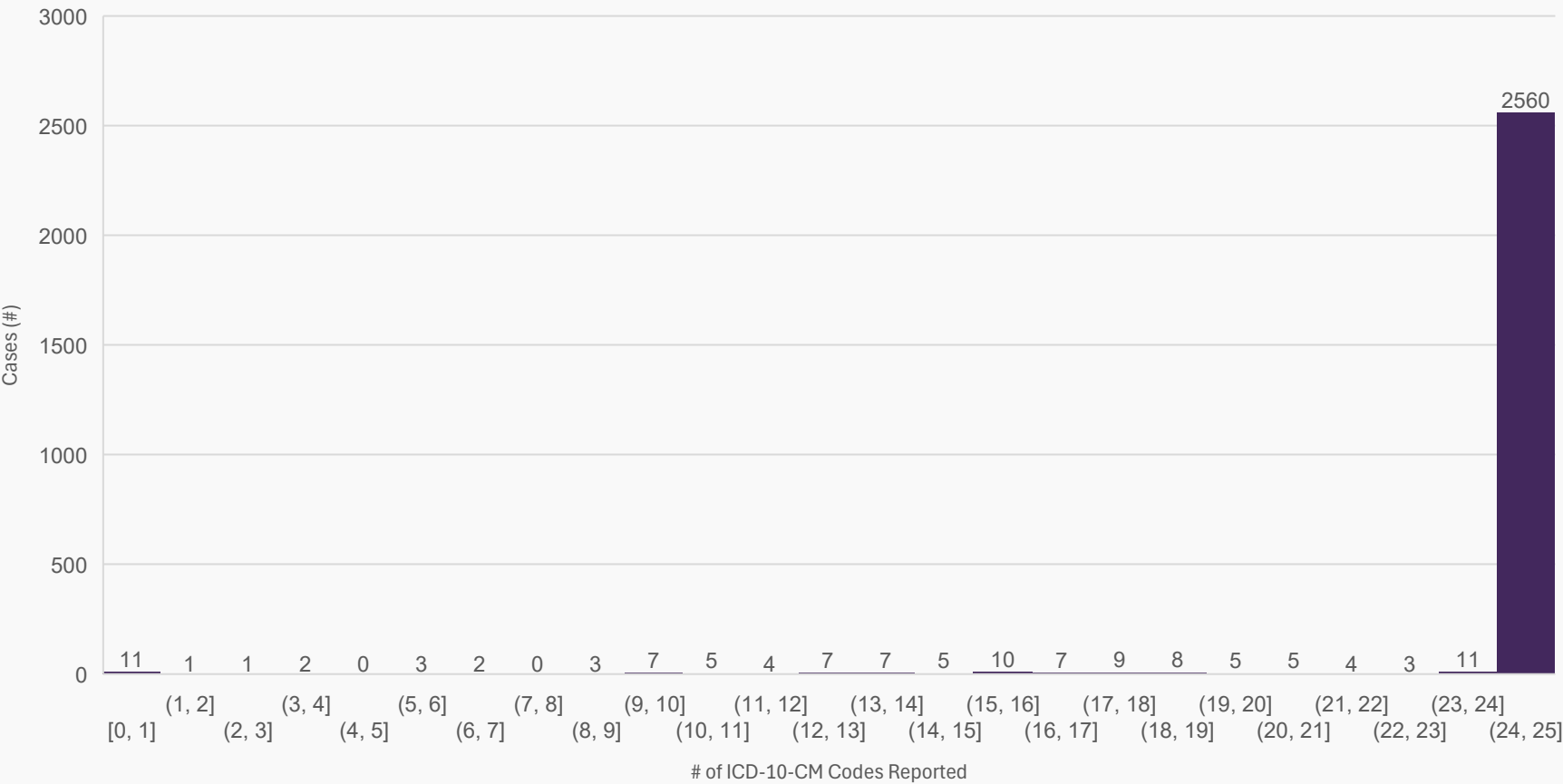n = 3,352

- This chart represents the **3,352 cases** that do not have R65.20, R65.21, or T81.12XA included in the reported 25 codes, and reported all inclusion variables as "No"

2024 Sepsis Data - # of ICD-10-CM Codes Reported (Cases without SS/SS ICD-10-CM code reported; At least 1 Inclusion Variable = "Yes")
n = 2,680

Cases (#)

# of ICD-10-CM Codes Reported

- This chart represents the **2,680 cases** that do not have R65.20, R65.21, or T81.12XA included in the reported 25 codes, but reported at least one inclusion variable as "Yes"
- The vast majority **(95.5%; 2,560)** of these cases reported 25 ICD-10-CM codes, which might suggest that the codes for inclusion exist beyond the 25 reported codes

FINDINGS

- The majority of cases reported in 2024 were reported with 25 ICD-10-CM codes

  - True for both cases that did and did not report a SS/SS ICD-10-CM code

- For the 6,032 cases that did not report a SS/SS ICD-10-CM code

  - 2,680 reported at least one inclusion variable as "Yes"

    – Of these cases, 2,560 (95.5%) reported 25 ICD-10 codes

- Findings suggest that codes beyond the 25 final billed codes submitted for sepsis reporting may contain severe sepsis/septic shock codes

NO CHANGES

- No changes to the Data Dictionary Inclusion Definition

- Hospitals will continue to report up to 25 ICD-10-CM codes and POA indicators using *ICD-10-CM Code (n)* and *ICD-10-CM POA Indicator (n)* variables

PROPOSED UPDATES

- **Proposed New Variables**

  - *Severe Sepsis/Septic Shock Inclusion Code*

    – Report which code(s) from Table A the patient had as a final diagnosis

  - *Severe Sepsis/Septic Shock Inclusion Code POA Indicator*

    – Using current codes and values, report whether code submitted for Severe Sepsis/Septic Shock Inclusion Code was POA

- *Inclusion Septic Shock* and *Inclusion Severe Sepsis* variables will be <u>removed</u>

QUESTIONS?