### 2024 VIZIENT CONNECTIONS SUMMIT

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# **Improving Mortality and Sepsis Care: Novel Approaches to EHR Optimization**

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### Learning Objectives



- Discuss the methods employed to drive significant impacts on quality and patient outcomes, including improvements in sepsis best practice alerts.
- Identify the steps to create a user-friendly, automated EHR-tool that is incorporated into hospital notes to improve documentation practices, as well as how variables are selected and updated.





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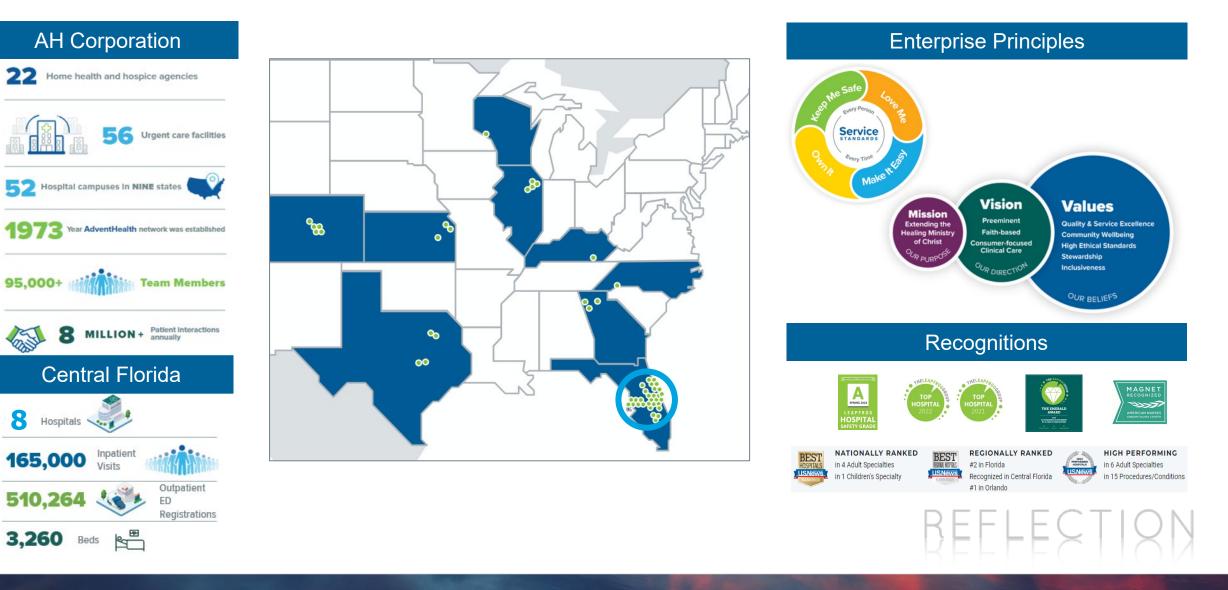
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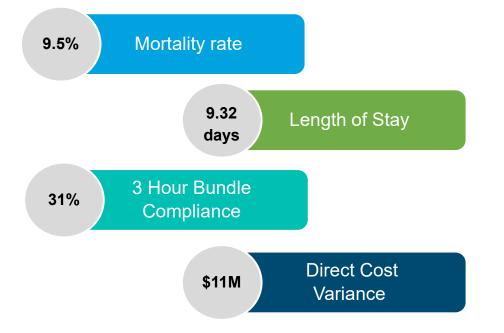
### **Overview**

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#### Problem

Sepsis is challenging to identify due to its varied and nonspecific presentation. The complexity hinders timely diagnosis, complicates treatment protocols, and disrupts care coordination. This leads to an increase in LOS, mortality, and cost of care.

For AH CFD, the following were the **baseline average** *figures* from August 2022 - May 2023:



#### Mission Actions

OPTIMIZED SEPSIS DEFINITION, DIAGNOSIS, AND RESPONSE

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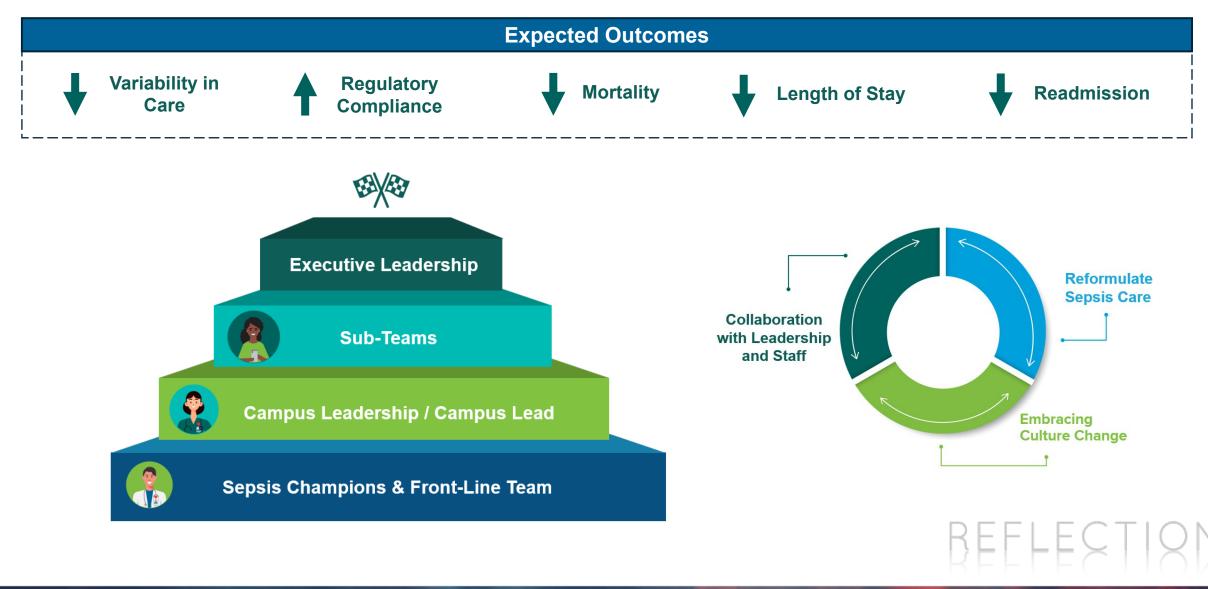
#### ENHANCED TREATMENT, CARE COORDINATION, AND TRANSITIONS

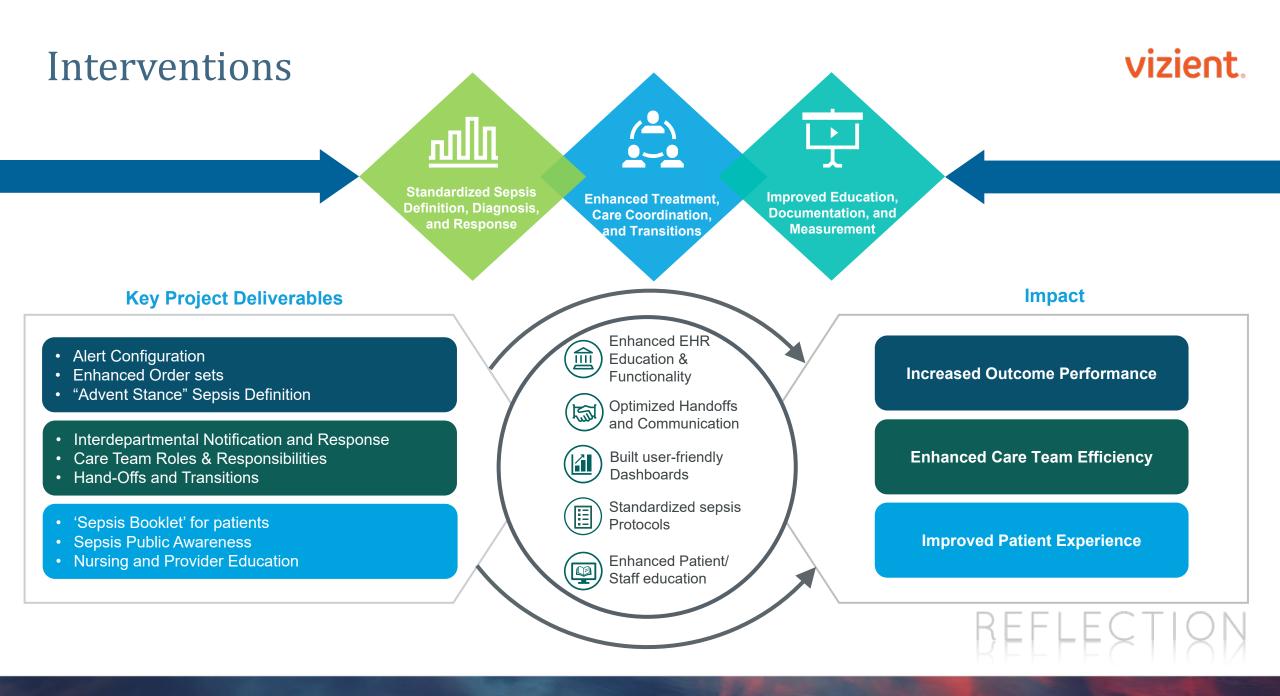
#### IMPROVED EDUCATION, DOCUMENTATION, AND MEASUREMENT

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### The Vision to Success

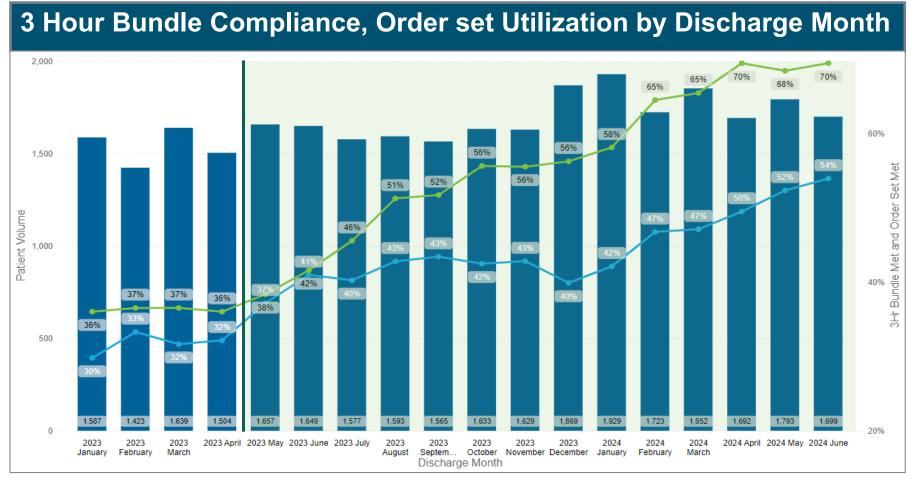
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### Implementation Results: Improved Process Measures





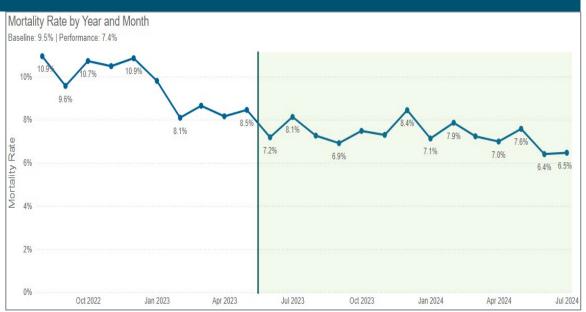
### Implementation Results: Cost Avoidance

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#### Sepsis Outcomes Tracking

Baseline Period from August 2022 to May 2023 | Performance Period from June 2023 to June 2024 | Population = Any Sepsis Diagnosis

Campus	Discharges (Baseline)	Discharges (Performance)	Days Avoided	Cost Avoided
<b>▲</b>				
Altamonte Springs	2398	3825	6693	\$5.48M
Apopka	1014	1495	2167	\$1.91M
Celebration	2201	3270	2465	\$2.41M
East Orlando	2531	4003	4053	\$3.69M
For Children	545	1440	3802	\$3.63M
Kissimmee	1813	3032	4624	\$3.87M
Orlando	5158	7132	8640	\$8.24M
Winter Garden	469	936	305	\$0.16M
Winter Park	1696	2614	2294	\$1.92M
Total	17825	27747	37049	\$33.41M



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Data Source: CLINICAL | Sepsis Dashboard | AH - Clinical Review - Power BI CFDS sepsis discharges | CFD | Sepsis Outcomes Tracking - Power BI Corporate Case Management Dashboard | Vizient | August 2022 – June 2024 | MS-DRG: 870-872

### Lessons Learned

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### Key Takeaways

#### 1 Ignite Optimize Harness the power of team Tracking, compliance, performance recognition and competition tools and processes Make understanding and achieving Keep it fun with recognition, awards process and outcome measures easy. and gamification. Ø **Oversight** Teamwork C-Suite accountability & sustained Cross functional collaboration efforts for performance Ensure all stakeholders are at the table Organizational clarity on performance expectations is key. and ready to engage.

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#### **Running the Marathon**

"Achieving success isn't a sprint; it is a sustained effort that require constant training and enthusiasm."



#### Sepsis Guardian Award for Excellence in Sepsis Care

Thank YOU for your dedication and commitment to achieving outstanding results in the fight against sepsis.

Advent Health

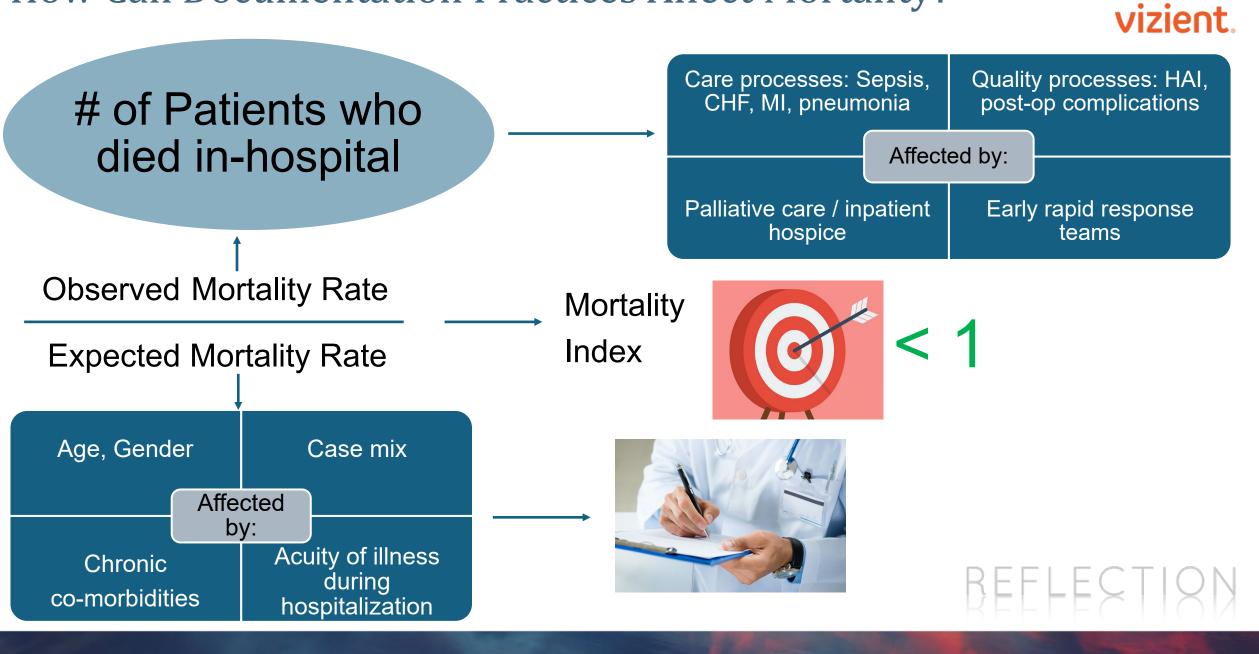
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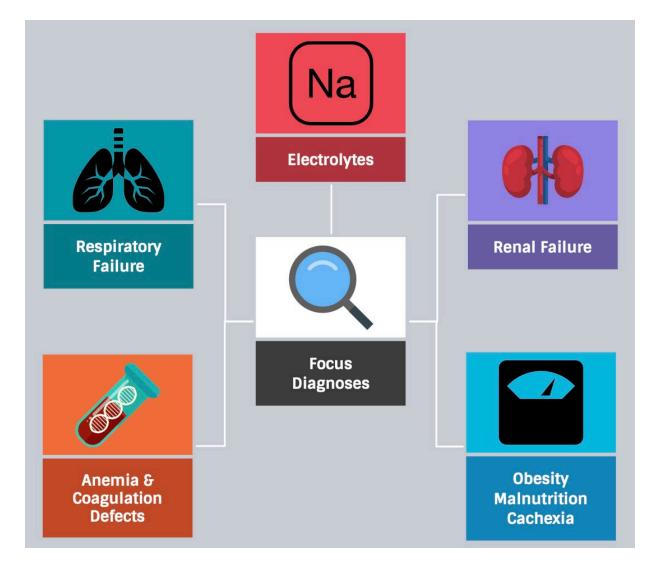
### **Weill Cornell Medicine**



### How Can Documentation Practices Affect Mortality?



### High Impact Diagnoses Captured at Hospital Admission vizient.



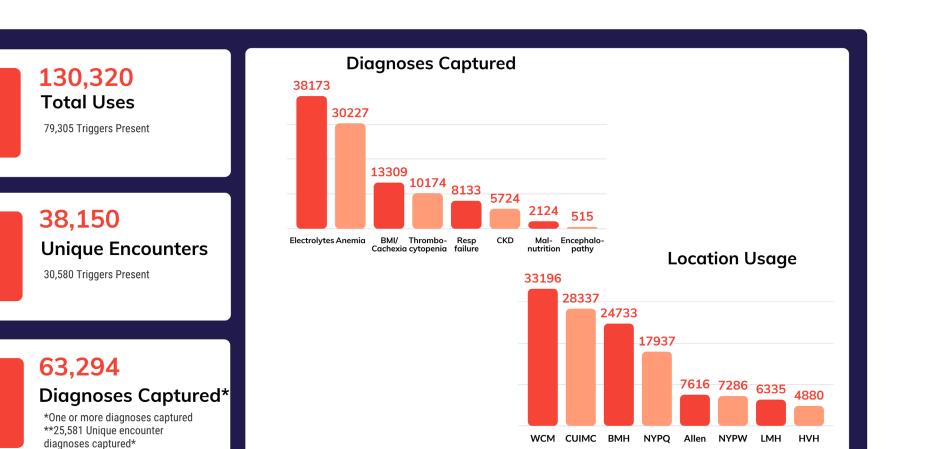
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### CDI Quality Admission EHR Tool: Initial Pilot Data

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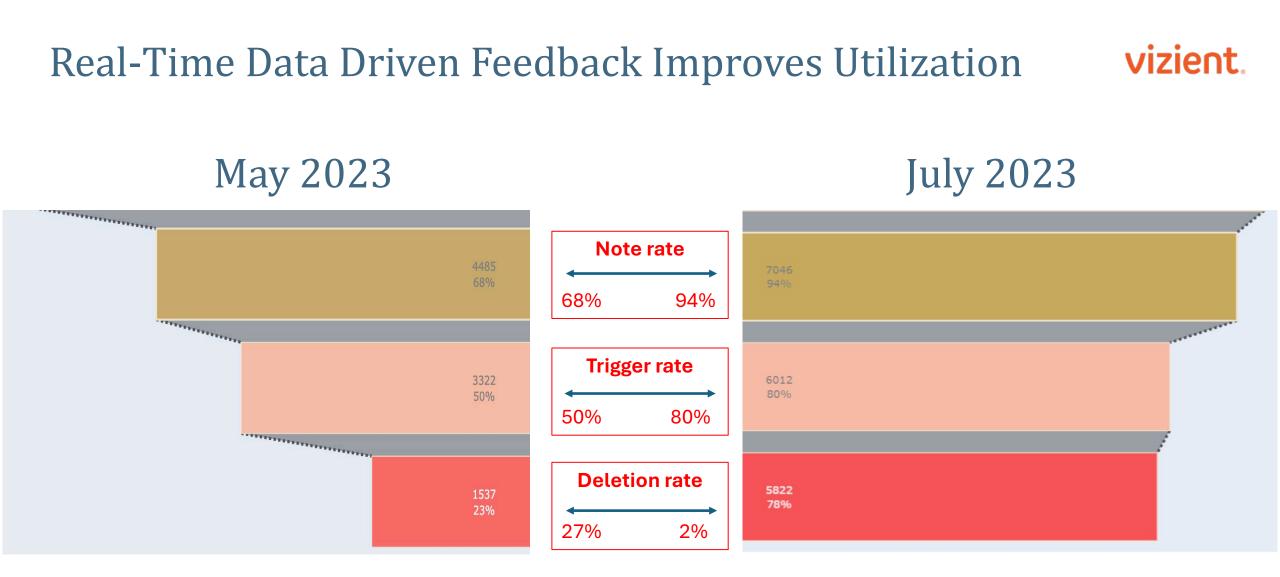
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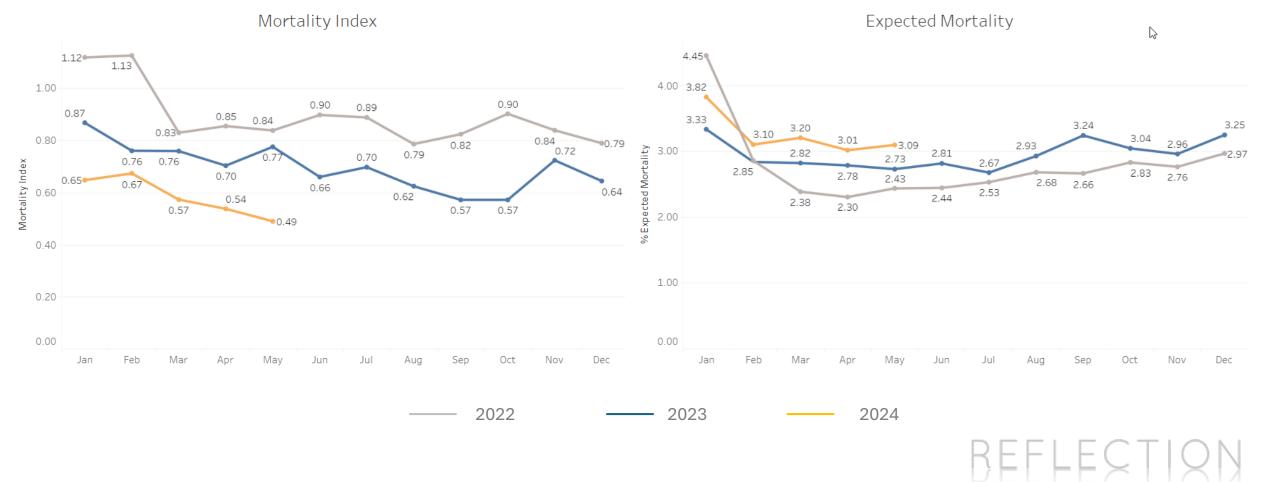
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### Improvement in Expected Mortality and Mortality Index vizient. After Implementation of the Automated EHR Tool



Source: CDB (Jan 2023 – May 2024); Age > 18; AMC Risk Model. NYPH excludes Queens, Hudson Valley. AMC Compare consists of Vizient Top Q&A Ranked Hospital, based on 2023 Q&A Rankings.



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- Selection of key variables is important
  - Impactful
  - Objective: amenable to rule-based criteria in the EHR
- Data driven implementation and iteration has led to a highly successful outcome and ongoing progress.





- Accurate documentation is important to reflect the high acuity of hospital patients and a precise expected mortality.
- Utilization of an automated EHR tool can improve diagnosis capture rates for key risk variables that contribute to important hospital metrics.
- Frequent iterations based on data-driven metrics and a robust CDI division can help improve diagnosis capture rates.

### Thank you

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- Paresh Shah

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- Sam Sarkissian, Lucy Zhang, Sijia Dong, David Chen & Analytics
- Xenia Frisby
- Lisa Linsangan
- And many others!



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### Questions?

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