# **Innovating Revenue Integrity Through Advanced Analytics**

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## **Learning Objectives**

- Understanding data construct variation across clinical and revenue cycle
- Identify and navigate gaps in the consolidated data and validation steps with key clinical and revenue cycle stakeholders
- Understand tools and dashboards to support strategic decisions and change management initiatives

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## **Introductions**



**Doreen Bunyea** RN CCS CPC COC **Director Charge Integrity** Nuvance Health



**Stephanie Martin** DNP-ELc, MSN, BSN, COC-H Director PwC



**Jennifer Jones** MHA, RHIA Senior Manager PwC

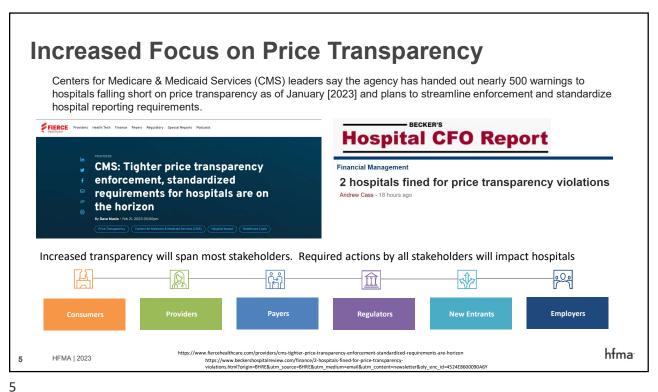
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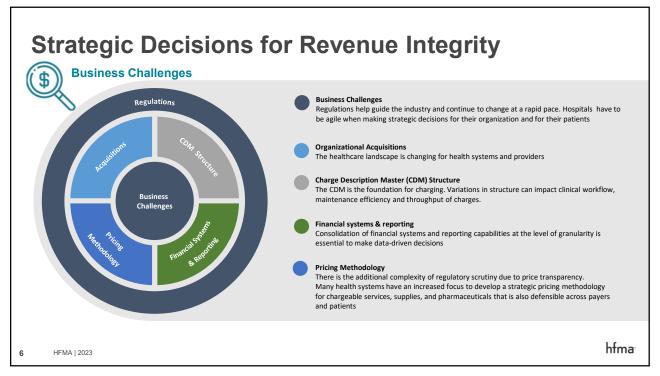
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## **Industry Disruptor**







### Strategic Decisions for Revenue Integrity, continued



**Industry Challenge:** Supply and pharmaceutical pricing analysis includes understanding disparate data sets and how to align them to support strategic decision making. Aligning and ingesting the large and complex data sets have proven to be a significant hurdle to establishing a defensible pricing strategy.

#### **Supplies**

Transition from a one-to-one charge structure to a one-to-many charge tiering structure

#### Pharmacy

Enable programmatic and strategic updates to NDC and medication cost information



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## From Data to Dashboard



## **Data Inputs and Data Structure**

Supplies and Pharmacy share similar data approaches and methodologies in addressing cost structure and markup methodology

Description	Supplies	Pharmacy
Masterfile	Item master/ mat mgmt. file	Formulary
Source base	Catalogue # / Manufacture #	NDC
Usage	Revenue & Usage Purchase History	Revenue & Usage Purchase History
Reference Files	Third party vendor(s) Industry benchmarks	Third party vendor(s) Industry benchmarks
Categorization (by price or item)	Supply category or cost tier	Medication category or cost tier
Other	Low-cost medications Non chargeable items	Low-cost items Study-based medications
Markup Methodology	Cost x Mark Up Flat Fee based on cost	Cost x Mark Up Flat Fee based on cost

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## **Challenges in the Data**

Data exploration and analysis uncover unforeseen challenges and opportunities to build and ideal future state scenario

#### **Disparate Data Sources**

Increasing number of mergers and acquisitions has led to health systems with a mix of different IT systems and platforms. Gaining parity in the data between the disparate data sources is necessary to support meaningful analytics





#### **Varying Operations**

Mergers and acquisitions brings differing charge capture and billing operations from clinical staff that needs to be standardized and operationalized to ensure backend uniform billing practices

#### **Non-Matching Items**

**Level of Detail** 

Identification and utilization of master items inventory necessary to ensure alignment and reduce waste among supplies and medications. Regular maintained and upkeep required to keep master lists current and relevant to billing practices and





#### **Historical Practices**

Historical annual pricing review practices vary between legacy facilities and systems leading to necessary alignment and standardization for a defensible pricing methodology across the health system

Achieving data at the same level of detail (e.g., facility, cost center, department, item) across the organization is necessary for meaningful comparison and analysis







### Data Formatting Data identifiers and item numbers vary among systems and site leading to duplication and mismatch for the same item used across the health system. Alignment review and regular maintenance necessary to reduce

the redundancy **Data Extraction** 

Extracting specific backend data out of disparate systems to achieve alignment to source of truth front end financials continue to pose a time-intensive challenge for many clients



Obtaining data at the appropriate lowest unit of measure poses a challenge when upstream operational discrepancy in unit of measure is

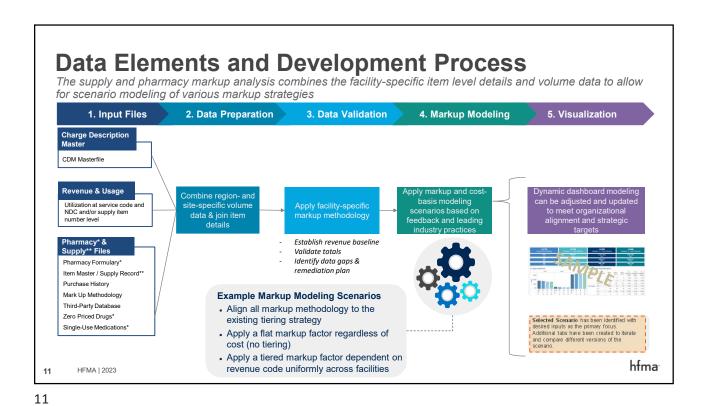




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**Leading Practice Structure** 

Supplies and Pharmacy billing practices and management share similar leading practice structure to allow for efficient cataloging and categorization of master files



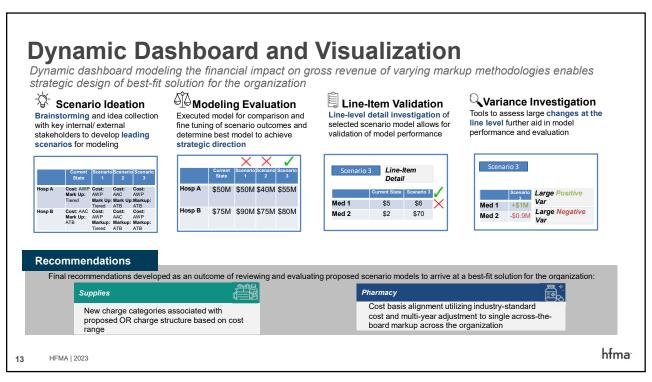


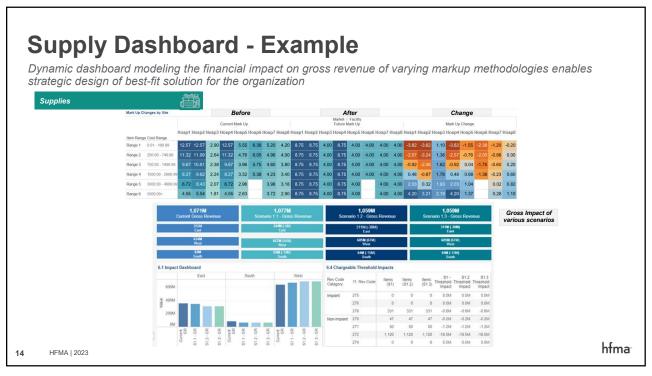
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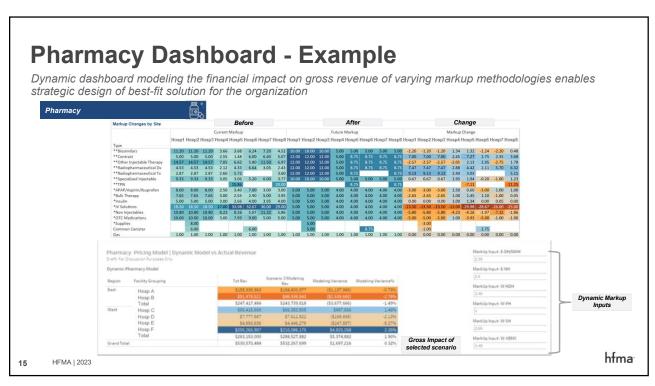
#### Key Highlights:

- 1. Creating a tiered or categorized structure will assist with file maintenance
- 2. Source files are continuously updated regularly. Confirm you have captured all items during this process.
- 3. This structure helps you analyze and report on different categories and tiers

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## Change Management through Socialization Engagement with key stakeholders and impacted parties required for collective understanding, constant refinement

and consensus gathering for future-state solution



#### **Workgroup Establishment**

Cross-functional stakeholder workgroup with regular cadence to review, investigate and make key decisions on the impacts and outcomes of the solution. Workgroup members inclusive of accountable leaders and responsible parties work to evaluate solution at every level



#### **Workflow Documentation**

Examination and documentation of a sequence of work process from initiation to completion outline the current state workflow and gap identification in critical areas. Adjustments to existing workflows to support final solution must account for current state limitations



#### **Roles and Responsibilities**

RACI matrix identifies and describes the responsibilities by role in completing tasks to support the solution. Outlining the members of the team and specific tasks in the project brings clarity and efficiency in establishing the new process



#### **Policies and Procedures**

Establish and/or update guidelines to outline the organization's plan for implementation and maintenance of the solution. Collective development and agreement among the workgroup ensure success with executing the day-to-day operations to achieve the overarching action

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Thank you.

