Launch of Knowledge Graph

Improving malnutrition intervention and care in RACFs

Introduction

Objective

- Optimize resource allocation
- Improve malnutrition management

Context Information

- Improved data management and intervention tracking
- Centralize and organize resident health data

Scope

- Resident-Centric Care Model
- Interconnected Healthcare System
- Optimized Decision-Making

Intended Users and Their Needs

Healthcare Professionals

Monitor residents
create care plans
coordinate care

Researchers

Analyse trends, identify malnutrition causes
Study outcomes

Facility Managers

Track outcomes
Allocate resources
Ensure regulatory compliance

Policymakers

Understand malnutrition prevalence
Assess policy impacts

Competency Questions (CQs)

CQ1: Which residents are at the highest risk of malnutrition based on their screening results and health conditions?

CQ2: What are the most effective nutritional interventions for residents identified as malnourished, and how have these interventions impacted their health outcomes?

CQ3: How does malnutrition prevalence vary across different RACFs and resident demographics (e.g., age, health condition)?

CQ4: How do the numbers of different types of healthcare staff at facilities relate to the number of malnourished residents?

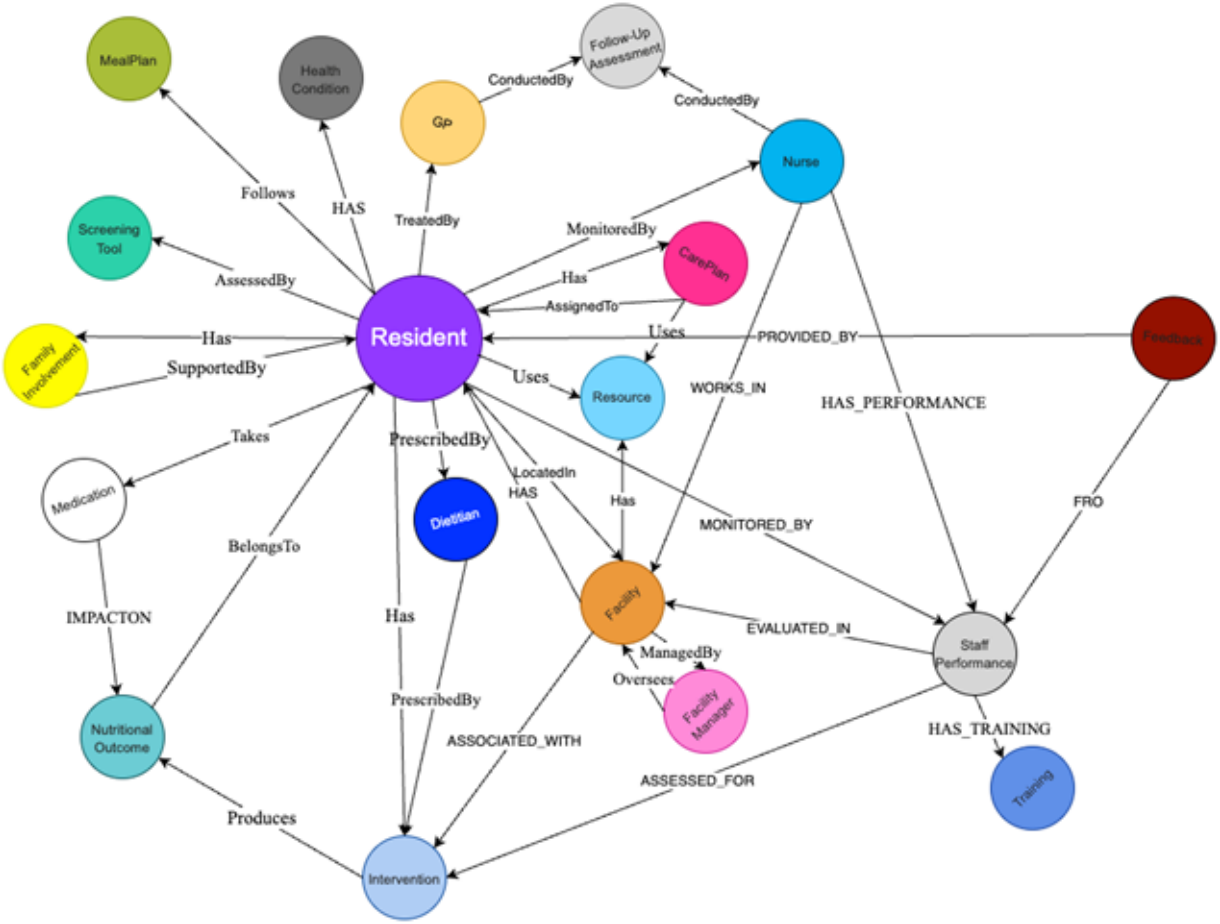
CQ5: Which interventions are most effective in reducing malnutrition for residents with specific health conditions (e.g., diabetes, hypertension) in various RACFs?

Key Components of the Knowledge Graph 19-Node

Relationships of the Graph

35-relationship

(* 16,528)



Product Manager

OUR VISION

"Deliver impactful, user-driven products that drive business success and innovation."

OUR MISSION

"Lead cross-functional teams to create seamless, data-informed solutions that meet user needs."

Product Manager

Link to Neo4j

Health Professional's Perspective

Managing Complex Health Conditions

"Older residents often suffer from multiple chronic diseases, we must identify and effectively manage and intervene in these comorbidities."

Accuracy and Real-time

"The ability to track and adjust care plans in real-time based on outcomes."

Facility Manager's Perspective

Resource Allocation

“Efficiently allocating resources for at-risk residents.”

Compliance with Regulatory Policies

“Must ensure compliance with government regulations and standards, health, safety and quality of care regulations that are frequently changed or updated.”

Investor’s Perspective

Return on Investment

“(HIGH)expected returns and
(SHORT)investment return period.”

Risks

“(LOW)potential technical, market, and operational risks.
Technical feasibility: focus on technical implementation and
ensure performance and scalability”

Conclusion

A Crucial Tool

Enhancing malnutrition management and care in RACFs

Data-driven Solution

Better outcomes, optimized resource and compliance

Thank You

Do you have any questions?

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