How long have you experienced soreness in your chest?



Medical Student (User)

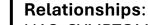
Abstraction:

What is the duration of patient's symptoms?



Nodes:

symptom, duration



HAS_SYMPTOM, HAS_DURATION



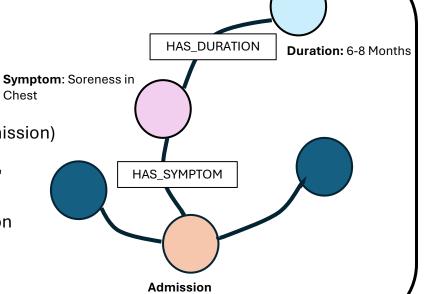
Retrieval Agent

Admission ID: 143536

Cypher Query:

MATCH (p:Patient)-[:HAS_ADMISSION]->(a:Admission)
MATCH (a)-[:HAS_SYMPTOM]->(s:Symptom)
WHERE s.description =~ '(?i).*soreness.*chest.*'
MATCH (s)-[:HAS_DURATION]->(d:Duration)
RETURN p.name AS Patient, d.length AS Duration

Retrieved Result: 6-8 Months



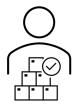


KG Query Generation Agent

Check:

Does "6-8 Months" answer the natural language query?

- Yes → Exit
- No → Paraphrase the natural language query and retry



Checker Agent

Personality:

expressive, anxious

Rewrite:

"Oh doctor, I am so worried. I have been feeling soreness in my chest for 6-8 months. What do you think is the reason?"



Rewrite Agent

Summarize:

Patient ID 88539 (Admission ID 143536) reported soreness in chest for 6-8 Months. He has expressed concern. The current context relates to the duration of the patient's soreness in chest.

