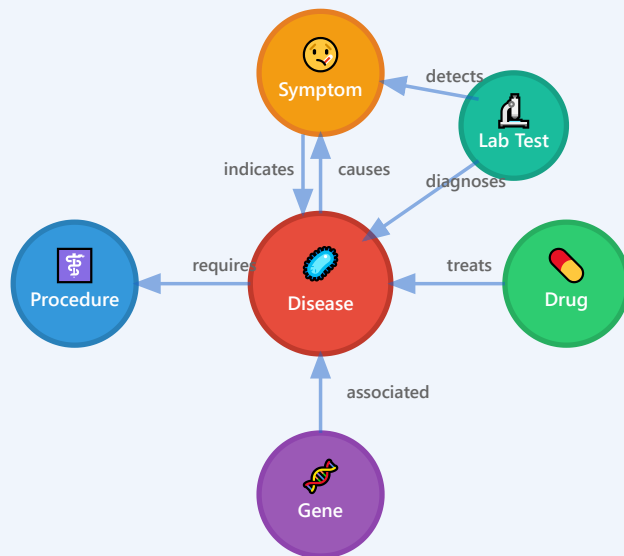


Medical Knowledge Graph Integration



Triple Structure: Entity → Relation → Entity

2.8M

UMLS Concepts

15M+

Relationships

Graph Embedding

- TransE, TransR for relations
- Node2Vec for embeddings
- Graph Attention Networks
- Knowledge Graph Embeddings

LLM Integration Methods

Retrieval-Augmented Generation (RAG) • Knowledge-enhanced prompting • Graph-guided reasoning • Entity linking and normalization • Hybrid knowledge retrieval