

Chain-of-Thought in Medical Context

CoT Prompting

- Step-by-step reasoning process
- Makes LLM thinking transparent
- Breaks complex problems into steps
- Intermediate reasoning shown explicitly

Medical Applications

- Diagnosis generation
- Treatment planning
- Clinical decision support
- Patient assessment

Standard vs CoT Comparison

Standard Prompting

Direct answer only

VS

CoT Prompting

Reasoning + Answer

Performance Improvement: **20-80% accuracy increase on complex medical reasoning tasks**