Stage 1: Multi Agent System

Laboratory Agent

Cardiology Agent

Radiology Agent

Streaming reasoning outputs

Stage 2: EXAIM Middleware Layer

TokenGate

Syntactic Buffering

- Max Words
- Silence Timer
- Boundary
- Max Wait Timeout

BufferAgent

Accumulated Context

LLM Semantic Classifier

state relevance complete novel

Code Deterministic Trigger Policy

(priority + update value)

NO TRIGGER | TRIGGER

SummarizerAgent

Schema-constrained summary

(SBAR / SOAP-aligned)

Stage 3: Clinician-Facing UI

EXAIM Summaries

Incremental clinician-readable updates (bounded fields + attribution)

STATUS / ACTION	KEY FINDINGS
DIFFERENTIAL & RATIONALE	UNCERTAINTY / CONFIDENCE
RECOMMENDATION / NEXT STEP	AGENT CONTRIBUTIONS