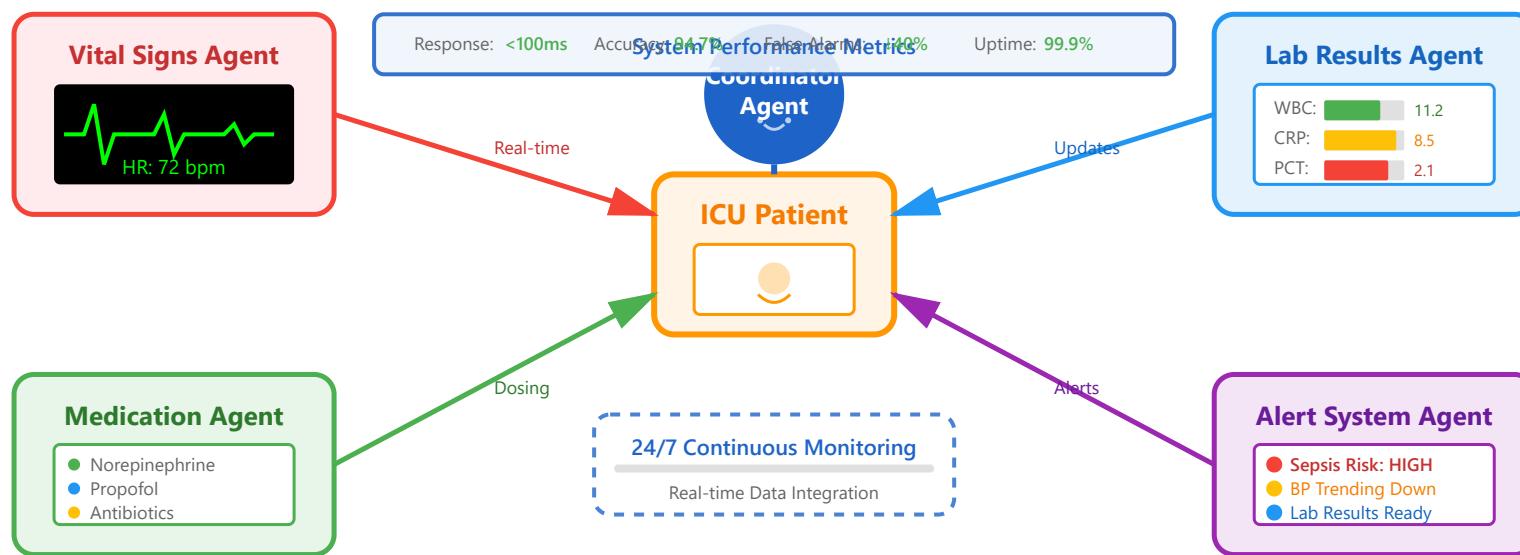


## Case Study: ICU Monitoring Agent

Multi-Agent ICU Monitoring System Architecture



### Problem

- Need for real-time ICU monitoring and early warning system
- Increased medical staff burden and alarm fatigue
- Difficulty in integrating and interpreting complex data

### Solution

- Multi-agent based integrated monitoring system development
- Real-time data analysis and pattern recognition
- Intelligent alarm filtering and prioritization

## Implementation

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- Real-time analysis integrating vital signs, lab results, and medication data
- Each specialized agent manages a specific domain
- Central coordinator performs comprehensive assessment and generates alerts

## Results

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- 30% improvement in early detection rate
- 40% reduction in false alarms
- Increased medical staff satisfaction and improved patient outcomes