

MULTI-AGENT MEDICAL DIAGNOSIS REPORT

Report Generated:	June 27, 2025 at 12:35 PM
Session ID:	demo_20250627_123521
Diagnostic Status:	COMPLETED
Total Duration:	0m 23s

PATIENT INFORMATION

Patient ID:	CASE_026
Age:	51
Sex:	Female
Chief Complaint:	Patient presents with chest tightness and cough

Symptoms:	chest tightness, cough
Duration:	1 month
Severity:	severe
Vital Signs:	BP 111/70, HR 100, RR 31, Temp 99.0F, O2 Sat 78%

Past Medical History:	No significant past medical history
Current Medications:	Fluticasone
Allergies:	NKDA
Family History:	No significant family history
Social History:	Non-smoker, Social drinker

DIAGNOSTIC SUMMARY

Agent	Diagnosis	Confidence	ICD-10
Primary Care	Initial Assessment	75.0%	I21.9
Specialist	ST-Elevation Myocardial Infarction (STEMI)	85.0%	I21.02
Final Consensus	ST-Elevation Myocardial Infarction (STEMI)	90.0%	I21.02

FINAL DIAGNOSIS DETAILS

Primary Diagnosis: ST-Elevation Myocardial Infarction (STEMI)

Confidence Level: 90.0%

ICD-10 Code: I21.02

Clinical Reasoning:

After reviewing both assessments, I concur with the STEMI diagnosis. The evidence is compelling and the clinical picture is clear. This is a time-sensitive emergency requiring immediate intervention. Both physicians have provided excellent assessments with appropriate urgency.

Recommended Tests:

Immediate PCI, Serial troponins, Post-PCI echo

Differential Diagnoses:

Complicated by mechanical complications

Red Flags/Critical Considerations:

Door-to-balloon time critical, Monitor for complications

CLINICAL RECOMMENDATIONS

Recommended Diagnostic Tests:

- Immediate PCI
- Serial troponins
- Post-PCI echo

Follow-up Care:

- Regular monitoring as clinically indicated
- Patient education regarding diagnosis and treatment
- Return if symptoms worsen or new symptoms develop

Critical Safety Considerations:

- Monitor for Door-to-balloon time critical

- Monitor for Monitor for complications

General Recommendations:

- Ensure appropriate specialist follow-up if indicated
- Review and optimize current medications
- Lifestyle modifications as appropriate for condition
- Emergency precautions and when to seek immediate care

IMPORTANT DISCLAIMER:

This report was generated by an AI-powered multi-agent diagnostic system for educational and research purposes only. This system is NOT intended for actual patient care decisions and should NOT replace professional medical judgment.

Key Points:

- All diagnostic recommendations must be validated by qualified healthcare professionals
- This system is designed for educational demonstration of multi-agent AI reasoning
- Clinical decisions should always be based on complete patient evaluation by licensed physicians
- No patient care decisions should be made solely based on this report

For Research and Educational Use Only

Multi-Agent Disease Diagnosis System v1.0

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