

# AI DOCTOR ASSISTANT

Advanced Clinical Decision Support System

Patient Name: Integration Test User		MRN: TEST-101
Age: 55	Gender: Male	Assessment Date: 2026-01-17 10:18
Overall Risk: Critical		Risk Score: 51.3/100

## Clinical Assessment (SOAP Notes)

### CLINICAL DECISION SUPPORT REPORT

Patient: Integration Test User  
Assessment Date: January 17, 2026  
Report Type: AI-Assisted Risk Stratification

#### Clinical Summary

Overall Risk Stratification: Critical (51.3%)  
High-Priority Concerns: Kidney Disease

#### Multi-System Risk Stratification

##### Critical Risk Conditions

Kidney Disease (Risk Score: 88.0%)  
- Risk Factors:  
Hypertension is a major contributor to kidney damage.

##### High Risk Conditions

Heart Disease (Risk Score: 57.56%)  
- Risk Factors:  
Elevated blood pressure increases cardiovascular risk.  
High cholesterol is associated with atherosclerosis.  
Presence of chest pain raises concern for cardiac origin.

##### Low Risk Conditions

Stroke (Risk Score: 8.33%)  
- Risk Factors:  
Hypertension significantly increases stroke risk.

#### Clinical Recommendations

# AI DOCTOR ASSISTANT

*Advanced Clinical Decision Support System*

## Priority Actions:

- Comprehensive clinical evaluation recommended
- Consider specialist referral based on risk profile
- Initiate appropriate diagnostic workup
- Discuss risk modification strategies with patient

## General Clinical Approach:

- Review patient's complete medical history
- Perform focused physical examination
- Order confirmatory laboratory/imaging studies as indicated
- Develop individualized care plan
- Schedule appropriate follow-up intervals
- Provide patient education on risk factors

## Suggested Further Investigations

- Complete metabolic panel, urinalysis, eGFR, kidney ultrasound
- ECG, echocardiogram, stress test, cardiac biomarkers

## AI Model Information

### Models Used:

- Kidney Disease: Machine Learning Risk Prediction Model
- Stroke: Machine Learning Risk Prediction Model
- Heart Disease: Machine Learning Risk Prediction Model

Confidence Level: Based on available clinical data and model training

## Professional Disclaimer

Clinical Decision Support Tool - Professional Use Only

This report is generated by machine learning models trained on clinical datasets. The risk scores and assessments are intended to support, not replace, clinical judgment.

### Limitations:

- Models may not capture all clinical nuances
- Risk scores are probabilistic, not deterministic

# AI DOCTOR ASSISTANT

*Advanced Clinical Decision Support System*

Individual patient factors may not be fully represented

Models require validation against clinical findings

## Recommendations:

Use this report as one component of comprehensive clinical assessment

Correlate AI findings with clinical examination and patient history

Order confirmatory tests as clinically indicated

Apply professional judgment in all diagnostic and treatment decisions

**Liability:** This tool provides decision support only. Final diagnostic and treatment decisions remain the responsibility of the attending physician.

## Patient Care Summary

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### HEALTH SCREENING REPORT

Patient: Integration Test User

Report Date: January 17, 2026

### Executive Summary

This health screening has identified critical risk areas that require prompt medical attention. 2 condition(s) show elevated risk levels. We strongly recommend scheduling a consultation with your healthcare provider for comprehensive evaluation and personalized care planning.

### Overall Health Risk Assessment

Risk Level: Critical

Risk Score: 51.3%

Primary Areas of Concern: Kidney Disease

### Detailed Risk Analysis

#### Kidney Disease

Risk Level: Critical (88.0%)

### What This Means:

The screening indicates a significantly elevated risk for Kidney Disease. This means several risk factors are present that warrant immediate medical attention and further testing.

# AI DOCTOR ASSISTANT

*Advanced Clinical Decision Support System*

Why This Risk Exists (Contributing Factors):

1. Hypertension is a major contributor to kidney damage.

Clinical Context:

High likelihood of Kidney Disease based on current clinical indicators.

Recommended Actions:

Monitoring serum creatinine and eGFR

Blood pressure optimization

Nephrology consultation recommended for progressive risk

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Stroke

Risk Level: Low (8.33%)

What This Means:

The screening shows a low risk for Stroke based on current indicators. Continue maintaining healthy habits and regular check-ups.

Why This Risk Exists (Contributing Factors):

1. Hypertension significantly increases stroke risk.

Clinical Context:

Low likelihood of Stroke at present.

Recommended Actions:

Risk factor control including hypertension and diabetes

Lifestyle modification

Neurology consultation for high-risk cases

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Heart Disease

Risk Level: High (57.56%)

What This Means:

The screening shows an elevated risk for Heart Disease. Multiple risk factors have been identified that

# AI DOCTOR ASSISTANT

*Advanced Clinical Decision Support System*

suggest you should consult with a healthcare provider for further evaluation.

Why This Risk Exists (Contributing Factors):

1. Elevated blood pressure increases cardiovascular risk.
2. High cholesterol is associated with atherosclerosis.
3. Presence of chest pain raises concern for cardiac origin.

Clinical Context:

Low likelihood of Heart Disease at present.

Recommended Actions:

Blood pressure and lipid management

Guidelines suggest considering antiplatelet or statin therapy where appropriate

Stress testing or cardiology referral if clinically indicated

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General Health Recommendations

Lifestyle Modifications:

Maintain a balanced diet rich in fruits, vegetables, whole grains, and lean proteins

Engage in regular physical activity (at least 150 minutes of moderate exercise per week)

Maintain a healthy weight (BMI 18.5-24.9)

Limit alcohol consumption and avoid tobacco products

Manage stress through relaxation techniques, adequate sleep, and social support

Monitoring:

Schedule regular health check-ups with your healthcare provider

Monitor your blood pressure, blood sugar, and cholesterol levels as recommended

Keep track of any new or changing symptoms

Prevention:

Stay up-to-date with recommended health screenings

Take prescribed medications as directed

Maintain good sleep hygiene (7-9 hours per night)

Stay hydrated and limit processed foods

Next Steps

# AI DOCTOR ASSISTANT

*Advanced Clinical Decision Support System*

## Immediate Actions Required:

1. Schedule an appointment with your healthcare provider within the next 1-2 weeks
2. Bring this report to your appointment for discussion
3. Be prepared to discuss your symptoms, medical history, and lifestyle
4. Your doctor may order additional tests or imaging studies
5. Do not make any medication changes without consulting your doctor

## When to Seek Emergency Care:

Severe chest pain or pressure  
Difficulty breathing or shortness of breath at rest  
Sudden severe headache or vision changes  
Loss of consciousness or severe confusion  
Any symptoms that feel life-threatening

## Important Medical Disclaimer

This report is generated by an AI-powered health screening tool and is intended for informational and educational purposes only.

## Important:

This is NOT a medical diagnosis  
This tool does not replace professional medical advice  
All findings must be reviewed and interpreted by a licensed healthcare provider  
Do not make any treatment decisions based solely on this report  
Seek immediate medical attention for any emergency symptoms

Accuracy Note: AI models are trained on large datasets but may not account for all individual variations. Clinical judgment by a qualified healthcare professional is essential for accurate diagnosis and treatment planning.

*DISCLAIMER: This report is generated by an artificial intelligence system for clinical decision support. All findings must be reviewed and validated by a licensed physician before clinical application.*