

# FLAN-T5 Medical Model

## Comprehensive Evaluation Report

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### Model Information

Property	Value
Model Type	FLAN-T5
Model Path	models\flan_t5_diagnosis_20251018_205708
Total Parameters	247,577,856
Model Size	944.4 MB
Device	cuda
PyTorch Version	2.5.1+cu121

### Performance Metrics

Metric	Value
Total Questions	75
Successful Responses	75
Failed Responses	0
Success Rate	100.00%
Avg Inference Time	0.122 seconds
Median Inference Time	0.090 seconds
Min Inference Time	0.071 seconds
Max Inference Time	0.942 seconds

### Quality Metrics

Metric	Value
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Average Quality Score	0.158
Median Quality Score	0.200
Min Quality Score	0.000
Max Quality Score	0.491
Quality Std Deviation	0.125

## Performance by Category

Category	Questions	Avg Quality	Avg Time (s)	Emergency Detected	Success Rate
Basic Symptoms	15	0.213	0.165	1	100.00%
Chronic Diseases	15	0.286	0.134	1	100.00%
Emergency	15	0.027	0.110	3	100.00%
Preventive Care	15	0.065	0.113	0	100.00%
Mental Health	15	0.200	0.089	0	100.00%

## Sample Responses

### Best Quality Responses:

1. **Question:** What are early signs of heart disease?

**Response:** heart disease...

**Quality Score:** 0.491 | **Time:** 0.112s
2. **Question:** What are signs of dehydration?

**Response:** hypothyroidism...

**Quality Score:** 0.400 | **Time:** 0.184s
3. **Question:** How to control high blood pressure naturally?

**Response:** hypertension...

**Quality Score:** 0.400 | **Time:** 0.094s

### Lowest Quality Responses:

1. **Question:** What supplements are beneficial?

**Response:** hepatitis...

**Quality Score:** 0.000 | **Time:** 0.219s
2. **Question:** When to get eye exams?

**Response:** headache...

**Quality Score:** 0.000 | **Time:** 0.081s
3. **Question:** How to maintain mental wellness?

**Response:** depression...

**Quality Score:** 0.000 | **Time:** 0.090s