Scan Analysis Report

Generated on February 12, 2026 at 10:24 AM

Scan Information

File Name:	Bengin_case_89.jpg
Scan Type:	X-Ray
Type Confidence:	23.2%
Resolution:	512x512
Analysis Date:	2026-02-12 10:24:16
Model:	HealthGuard DenseNet-121

A radiographic image using X-ray radiation to view internal body structures, commonly used for bones, chest, and dental imaging.

Overall Assessment

Overall Severity:	HIGH
Primary Finding:	Bone Density Variation

Detailed Findings

1. Bone Density Variation — 19.7% confidence

Variations in bone density detected, which may suggest osteopenia, osteoporosis, or sclerotic changes.

2. Fluid Accumulation — 17.5% confidence

Signs suggestive of fluid collection detected. This may indicate effusion, edema, or other fluid-related pathology.

3. Lymph Node Enlargement — 16.4% confidence

Potentially enlarged lymph nodes detected. Clinical correlation and possible biopsy may be warranted.

4. Calcification Detected — 12.1% confidence

Calcified deposits have been identified. These may be benign (such as vascular calcifications) or may require further investigation depending on lo...

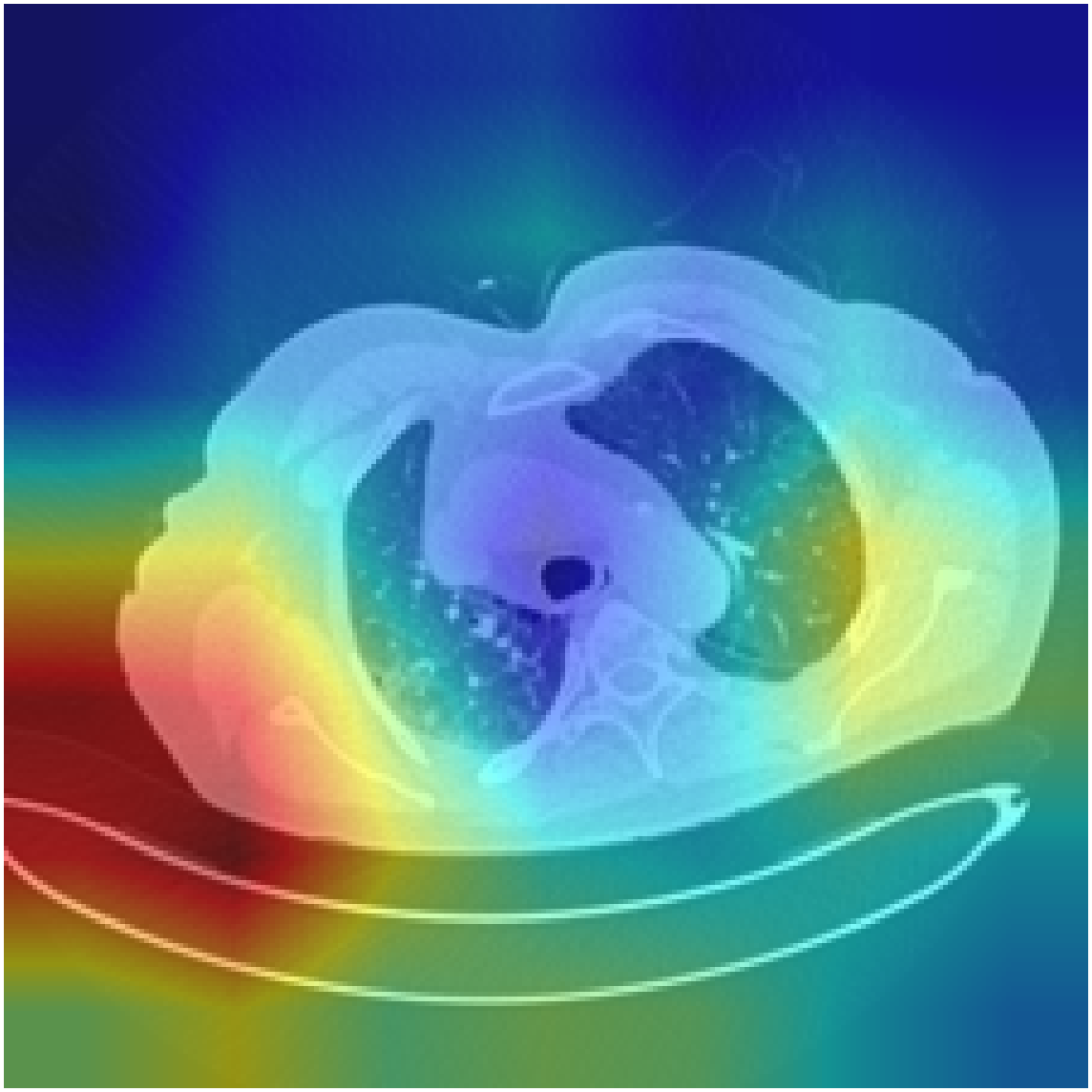
5. Normal - No significant findings — 10.8% confidence

The scan appears within normal limits. No obvious pathological findings are detected. Regular follow-up is recommended as per standard medical guid...

Visual Analysis

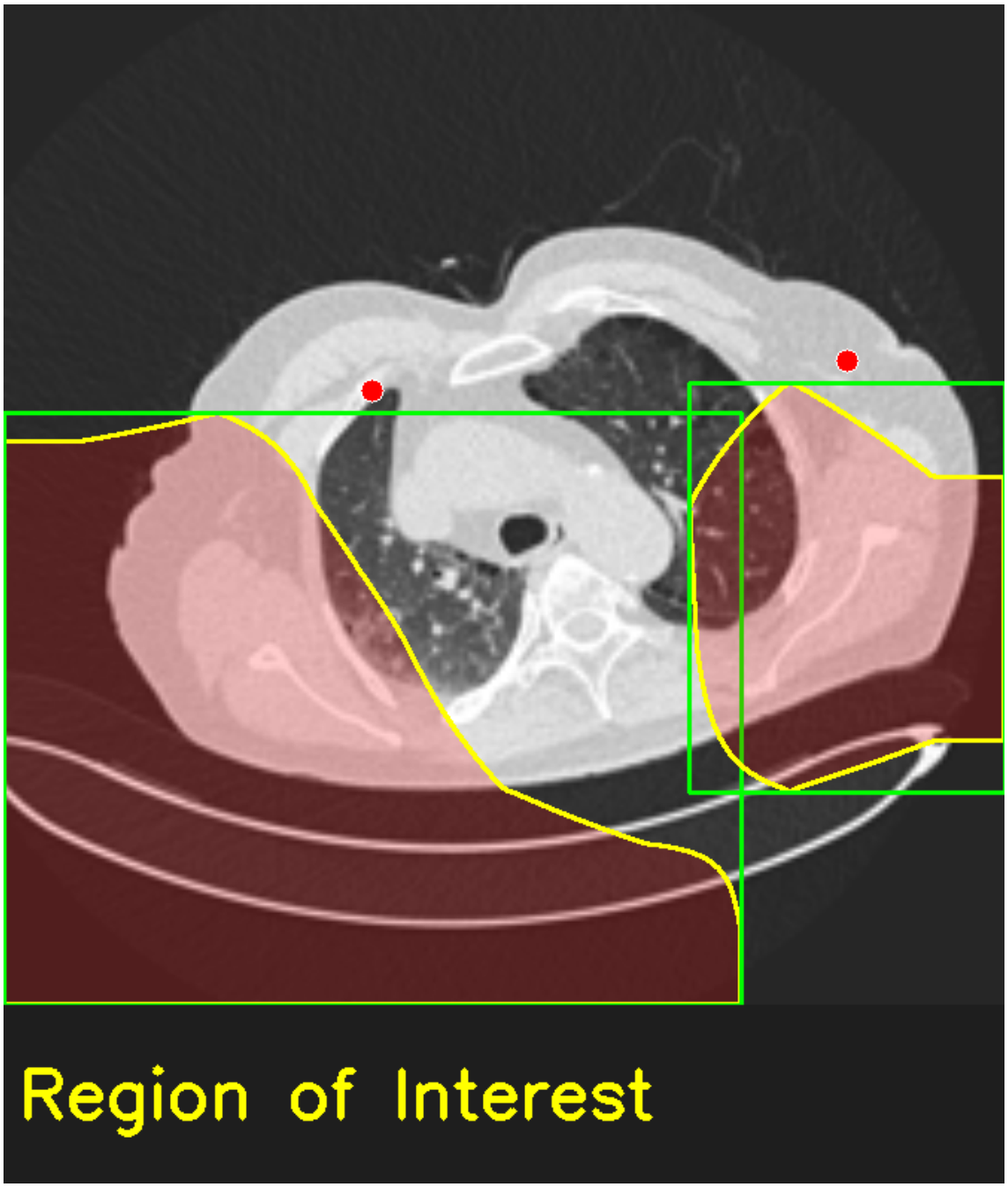
GradCAM Heatmap Analysis

Warmer colors indicate regions most relevant to the AI prediction.



Annotated Regions of Interest

Green boxes and yellow contours highlight AI-identified regions of interest.



Important Disclaimer

This report has been generated by HealthGuard AI, an artificial intelligence-based medical scan analysis system. The findings and predictions presented in this report are AI-generated and should NOT be used as a sole basis for medical diagnosis or treatment decisions.

This tool is designed to assist healthcare professionals by providing preliminary analysis and highlighting potential areas of interest. All findings should be reviewed and validated by qualified medical professionals.

The AI model uses deep learning techniques including DenseNet-121 architecture with GradCAM visualization. While the model has been trained on medical imaging data, it may produce false positives or miss findings. Always consult with a licensed healthcare provider for proper diagnosis and treatment.

HealthGuard AI and its developers are not liable for any medical decisions made based on the outputs of this system.