

# AI Skin Cancer Detection Report

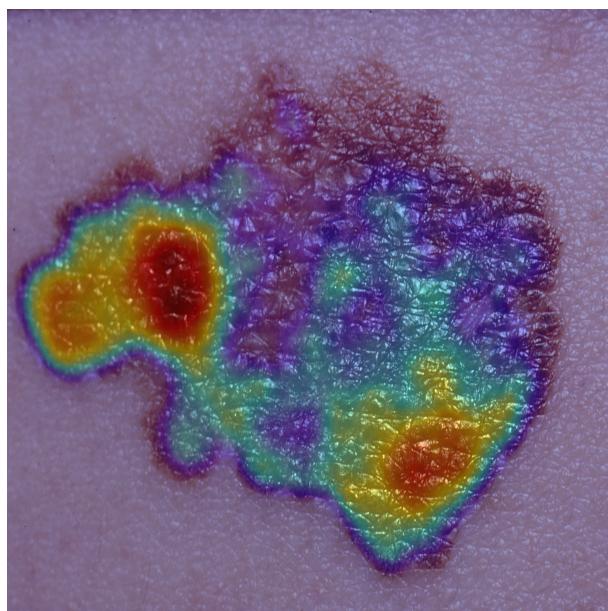
Date: 03 Feb 2026, 07:20 PM

Patient ID: Anonymous

## Uploaded Skin Image



## Grad-CAM Heatmap



## Model Prediction

Detected Class: **Malignant**

Confidence Score: **87.72%**

Risk Level: **HIGH**

## **ABCDE Analysis**

- A – Asymmetry: Low (0.16)
- B – Border: Highly Irregular (2.78)
- C – Color: Moderate (3 colors)
- D – Diameter: 11.88 mm (Above Risk Threshold)
- E – Evolution: Moderate Change

## **AI Clinical Interpretation**

- Here is the analysis based on the provided AI data:
- \*\*1. Concise Clinical-Style Summary\*\*
  - AI-based analysis of the skin lesion indicates a high probability (87.72%) of malignancy. Key morphological features contributing to this assessment include a highly irregular border, moderate color variation (3 colors), and a diameter of 11.88 mm, which exceeds established risk thresholds. Moderate evolution was also noted, with asymmetry being low.
- \*\*2. Risk Interpretation\*\*
  - The AI classifies this lesion as having a 'HIGH' risk level. This interpretation, supported by the strong AI prediction of malignancy and the concerning ABCDE features, suggests a significant need for further clinical investigation to rule out conditions such as melanoma or other serious skin pathologies.
- \*\*3. Recommended Next Steps\*\*
  - Given the AI's high-risk assessment and the concerning features identified, it is strongly recommended that this lesion undergo urgent clinical evaluation by a qualified healthcare professional, preferably a dermatologist. Further steps may include a thorough dermoscopic examination, serial photography for monitoring, or an excisional biopsy for definitive histopathological diagnosis.
- \*\*4. Clear Disclaimer\*\*
  - This analysis is based solely on AI interpretation of image data and is intended for informational and educational purposes only. It is not a diagnosis, medical advice, or a substitute for professional medical judgment, examination, or consultation with a qualified healthcare provider. Always consult with a healthcare professional for any health concerns or before making any decisions related to your health or treatment.
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  - Here is an explanation of your skin lesion analysis report, designed to help you understand it and guide your next steps.
- ## 1. What This Result Means
  - This report indicates that our AI system has analyzed the image of your skin lesion and detected features that are often associated with more serious skin conditions.
  - \* \*\*\*Prediction: Malignant\*\* means the AI has identified characteristics (like irregular borders, multiple colors, its size, and reported changes) that are typically seen in lesions that could be cancerous.
  - \* \*\*\*Overall Risk Level: HIGH\*\* reinforces that based on these features, the AI suggests this lesion warrants prompt medical attention and professional evaluation.
  - It's important to understand that this AI analysis is a screening tool, not a diagnosis. It tells us that based on the visual information, a professional medical opinion is strongly recommended.
- ## 2. Immediate Precautions
  - Your most important next step is to consult a dermatologist or your primary care physician as soon as possible.
  - \* \*\*\*Schedule an appointment:\*\* Contact your doctor to have this lesion examined by a medical professional. Bring this report with you.
  - \* \*\*\*Avoid irritation:\*\* Do not pick, scratch, or try to remove the lesion yourself.
  - \* \*\*\*Gentle protection:\*\* Keep the area clean and protect it from sun exposure by covering it with clothing or a small bandage until you see a doctor.
- ## 3. Skin Protection & Daily Care
  - While you wait for your appointment and moving forward, protecting your skin is crucial:
  - \* \*\*\*Sunscreen:\*\* Use a broad-spectrum sunscreen with an SPF of 30 or higher every day, even on cloudy days. Apply it generously to all exposed skin and reapply every two hours, or more often if swimming or sweating.
  - \* \*\*\*Seek shade:\*\* Limit your time in direct sunlight, especially between 10 AM and 4 PM when the sun's rays are strongest.

- \* \*\*Protective clothing:\*\* Wear wide-brimmed hats, UV-protective clothing, and sunglasses to shield your skin.
- \* \*\*Gentle skincare:\*\* Use mild, hydrating cleansers and moisturizers. Avoid harsh chemicals or products that irritate your skin.
- ## 4. Diet & Lifestyle Support
- Supporting your overall health through diet and lifestyle can also contribute to skin well-being:
- \* \*\*Nutrient-rich diet:\*\* Focus on a balanced diet rich in fruits, vegetables, and whole grains. These foods provide antioxidants that can help protect your cells.
- \* \*\*Hydration:\*\* Drink plenty of water throughout the day to keep your skin hydrated and healthy.
- \* \*\*Healthy fats:\*\* Include sources of healthy fats like omega-3s (found in fish, flaxseeds, walnuts) which can support skin health.
- \* \*\*Stress management:\*\* Practice stress-reducing activities like meditation, yoga, or spending time in nature, as chronic stress can impact overall health, including skin.
- \* \*\*Avoid smoking and limit alcohol:\*\* These can negatively affect skin health and its ability to repair itself.
- ## 5. Self-Monitoring Guidance
- Regular self-skin checks are a good habit for identifying \*other\* new or changing spots on your skin. However, for \*this specific lesion\*, your priority is professional medical evaluation rather than self-monitoring.
- \* \*\*Familiarize yourself with your skin:\*\* Get to know your moles and freckles so you can notice any changes or new spots easily.
- \* \*\*Use the "ABCDE" rule for \*other\* spots:\*\*
- \* \*\*A\*\*symmetry: One half doesn't match the other.
- \* \*\*B\*\*order: The edges are irregular, ragged, notched, or blurred.
- \* \*\*C\*\*olor: The color is not uniform and may include shades of brown, black, sometimes patches of pink, red, white, or blue.
- \* \*\*D\*\*iameter: The spot is larger than 6 millimeters (about the size of a pencil eraser), though some can be smaller. Your report shows this lesion is 11.88 mm.
- \* \*\*E\*\*volving: The mole is changing in size, shape, color, or elevation, or any new symptoms like bleeding, itching, or crusting.
- ## 6. When to Seek Medical Help
- Based on this report, you should seek medical help \*\*now\*\* for this specific lesion. In general, always consult a dermatologist if you notice:
  - \* Any new skin growth.
  - \* A mole or spot that is changing in size, shape, or color.
  - \* A mole that bleeds, itches, or becomes tender or painful.
  - \* Any lesion that fits the ABCDE criteria mentioned above.
  - \* Any skin concern that worries you.
- ## 7. Emotional Reassurance
- Receiving a report like this can naturally be concerning. Please remember that taking prompt action is the best thing you can do for your health. While the AI suggests a high risk, it doesn't confirm a diagnosis. Many suspicious lesions turn out to be benign (non-cancerous) after professional evaluation. The most important step now is to let a medical expert examine it, as early detection is key for the best possible outcomes. You are being proactive and responsible by seeking this analysis and by following up with a doctor.
- ## 8. Disclaimer
- This AI analysis is for informational purposes only and is not a medical diagnosis. It does not replace professional medical advice, diagnosis, or treatment. Always seek the advice of your physician or other qualified health provider with any questions you may have regarding a medical condition.

*Disclaimer: This system is a clinical decision support tool. Final diagnosis must be confirmed by a certified dermatologist.*