

# AI Skin Cancer Detection Report

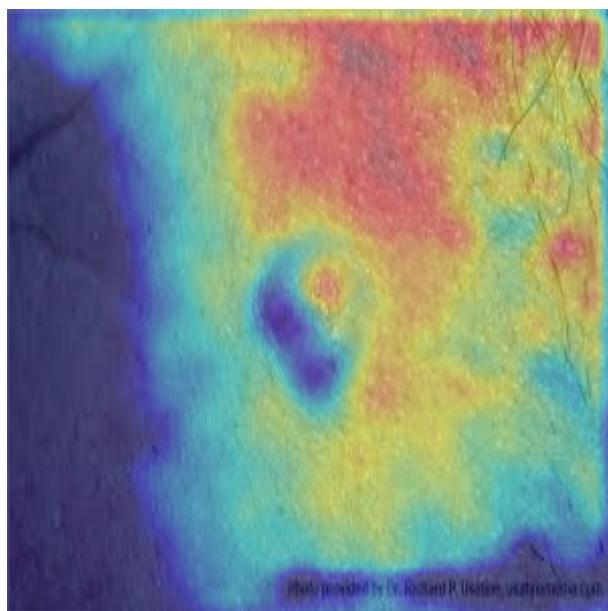
Date: 02 Feb 2026, 11:04 PM

Patient ID: Anonymous

## Uploaded Skin Image



## Grad-CAM Heatmap



## Model Prediction

Detected Class: **Benign**

Confidence Score: **67.53%**

Risk Level: **HIGH**

## **ABCDE Analysis**

- A – Asymmetry: Low (0.11)
- B – Border: Highly Irregular (3.63)
- C – Color: Moderate (3 colors)
- D – Diameter: 13.46 mm (Above Risk Threshold)
- E – Evolution: Moderate Change

## **AI Clinical Summary**

Here is the AI-based skin lesion analysis interpreted as requested: --- ### AI-Based Skin Lesion Analysis: Clinical Interpretation \*\*1. Concise Clinical-Style Summary:\*\* This AI-based analysis indicates a primary prediction of "Benign" with 67.53% probability. However, the overall AI-determined "Risk Level" is classified as HIGH. This elevated risk is primarily driven by several concerning ABCDE features, including a highly irregular border (score 3.63), the presence of three distinct colors, a substantial diameter of 13.46 mm (exceeding typical risk thresholds), and a reported moderate change in evolution. Asymmetry was noted as low. \*\*2. Risk Interpretation:\*\* Despite the AI's initial 'benign' prediction, the overarching 'HIGH' risk level is clinically significant and warrants attention. The cumulative presence of multiple concerning ABCDE features—specifically a highly irregular border, multiple colors, a large diameter exceeding 6mm, and reported evolution—are factors commonly associated with atypical or potentially malignant lesions. These characteristics suggest a need for thorough professional evaluation, irrespective of the benign prediction, as AI models can have limitations and such morphological features are critical in clinical dermatological assessment for conditions like melanoma. \*\*3. Recommended Next Steps:\*\* Immediate consultation with a qualified healthcare provider, preferably a dermatologist, is strongly recommended for a comprehensive clinical assessment. This should include a detailed physical examination, dermoscopy, and potentially further diagnostic procedures such as biopsy, to accurately characterize the lesion and rule out any concerning pathology. It is crucial not to delay professional evaluation given the identified high-risk features. \*\*4. Clear Disclaimer:\*\* This AI-based analysis is for informational purposes only and is not a substitute for professional medical advice, diagnosis, or treatment. AI tools are supplementary aids and cannot make definitive clinical diagnoses or recommendations. Always seek the advice of a qualified healthcare provider for any medical concerns or questions regarding skin lesions. Do not disregard professional medical advice or delay seeking it because of information presented here. --- Here's an explanation of your skin lesion analysis report:

## 1. What This Result Means

This report provides an analysis of your skin lesion based on its visual characteristics.

- \* \*\*Prediction: Benign\*\* - This means the AI's best assessment is that the lesion likely appears non-cancerous.
- \* \*\*Overall Risk Level: HIGH\*\* - Despite the "Benign" prediction, the AI has flagged several features of the lesion that are commonly associated with a need for closer medical evaluation. This high risk level means it's very important to have this lesion checked by a dermatologist. The specific characteristics contributing to the "HIGH" risk level include:
- \* \*\*Highly Irregular Border:\*\* The edges of the lesion are very uneven, which can sometimes be a concerning sign.
- \* \*\*Large Diameter:\*\* At 13.46 mm, the lesion is larger than typical risk thresholds, making it noteworthy.
- \* \*\*Moderate Color Variation:\*\* The presence of three colors within the lesion is also a factor contributing to the risk level.
- \* \*\*Moderate Change:\*\* The lesion has shown some changes over time, which always warrants professional attention.

## 2. Immediate Precautions Given the "HIGH" Overall Risk Level

Given the "HIGH" overall risk level, here are immediate steps you should take:

- \* \*\*Schedule a Dermatologist Appointment:\*\* This is the most crucial step. It's highly recommended to see a dermatologist for a professional evaluation of this lesion as soon as possible.
- \* \*\*Avoid Irritation:\*\* Try not to pick, scratch, or rub the lesion to prevent any potential irritation or infection.
- \* \*\*Protect from Sun:\*\* Keep the lesion covered with clothing or a strong sunscreen whenever you are outdoors.
- \* \*\*Sunscreen:\*\* Apply a broad-spectrum sunscreen with an SPF of 30 or higher daily, even on cloudy days. Reapply every two hours, or more often if swimming or sweating.
- \* \*\*Protective Clothing:\*\* Wear wide-brimmed hats, sunglasses, and clothing with UV protection (long sleeves, long pants) when outdoors.
- \* \*\*Seek Shade:\*\* Limit your time in direct sunlight, especially between 10 AM and 4 PM when UV rays are strongest.
- \* \*\*Gentle Skincare:\*\* Use mild cleansers and moisturizers suitable for your skin type. Avoid harsh chemicals or excessive scrubbing.
- \* \*\*Hydration:\*\* Keep your skin hydrated by drinking plenty of water throughout the day.

## 3. Skin Protection & Daily Care

Protecting your skin from the sun and maintaining good daily care habits are vital for overall skin health:

- \* \*\*Sunscreen:\*\* Apply a broad-spectrum sunscreen with an SPF of 30 or higher daily, even on cloudy days. Reapply every two hours, or more often if swimming or sweating.
- \* \*\*Protective Clothing:\*\* Wear wide-brimmed hats, sunglasses, and clothing with UV protection (long sleeves, long pants) when outdoors.
- \* \*\*Seek Shade:\*\* Limit your time in direct sunlight, especially between 10 AM and 4 PM when UV rays are strongest.
- \* \*\*Gentle Skincare:\*\* Use mild cleansers and moisturizers suitable for your skin type. Avoid harsh chemicals or excessive scrubbing.
- \* \*\*Hydration:\*\* Keep your skin hydrated by drinking plenty of water throughout the day.

## 4. Diet & Lifestyle Support

Supporting your body from the inside out can contribute to healthy skin:

- \* \*\*Balanced Diet:\*\* Incorporate plenty of fruits, vegetables, and whole grains into your diet. These provide antioxidants that can help protect skin cells.
- \* \*\*Healthy Fats:\*\* Include sources of omega-3 fatty acids, like fatty fish, flaxseeds, and walnuts, which can support skin barrier function.
- \* \*\*Stay Hydrated:\*\* Drink plenty of water throughout the day to keep your skin hydrated.

Hydrated:\*\* Drinking enough water is essential for skin elasticity and overall health. \* \*\*Regular Exercise:\*\* Physical activity can improve circulation, helping to deliver nutrients to the skin. \* \*\*Stress Management:\*\* Practice stress-reducing techniques such as meditation, yoga, or spending time in nature, as stress can impact skin health. \* \*\*Adequate Sleep:\*\* Aim for 7-9 hours of quality sleep per night, as this allows your skin to repair and regenerate. ## 5. Self-Monitoring Guidance Regularly observing your skin can help you notice changes over time: \* \*\*Monthly Self-Exams:\*\* Perform a full-body skin check once a month, ideally after a shower. Use a full-length mirror and a hand-held mirror for hard-to-see areas. \* \*\*Photograph the Lesion:\*\* Take clear, close-up photos of the lesion with a ruler next to it to track its size. Keep these photos to compare over time. \* \*\*Look for ABCDEs:\*\* Pay attention to any changes in: \* \*\*A\*\*symmetry (one half not matching the other) \* \*\*B\*\*order (irregular, ragged, notched, or blurred edges) \* \*\*C\*\*olor (uneven color, shades of brown, black, tan, red, white, or blue) \* \*\*D\*\*iameter (larger than 6mm, though any size can be concerning) \* \*\*E\*\*volving (changes in size, shape, color, or new symptoms like itching or bleeding) ## 6. When to Seek Medical Help It is crucial to consult a dermatologist for a professional evaluation of the specific lesion mentioned in this report due to its "HIGH" risk level. In addition, you should seek medical help if you notice any of the following: \* Any changes in the size, shape, color, or elevation of \*any\* mole or skin lesion. \* New symptoms such as itching, tenderness, pain, bleeding, or crusting associated with a lesion. \* A new mole or lesion that appears different from your other moles (the "ugly duckling" sign). \* Any open sore that does not heal within three weeks. ## 7. Emotional Reassurance It's completely normal to feel concerned when you see a "HIGH" risk level, even with a "Benign" prediction. The purpose of this analysis is to help you be proactive about your skin health. By promptly seeing a dermatologist, you are taking the best possible step to ensure any necessary evaluations are done and to get personalized advice tailored to your specific lesion. Many skin changes are benign, but getting a professional opinion offers peace of mind and ensures proper care. ## 8. Disclaimer This report is based on an AI analysis of visual characteristics and is \*\*not a diagnosis\*\*. Only a qualified healthcare professional, such as a dermatologist, can provide a medical diagnosis and recommend a course of action. Please consult with your doctor for any health concerns.

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