

AI Skin Cancer Detection Report

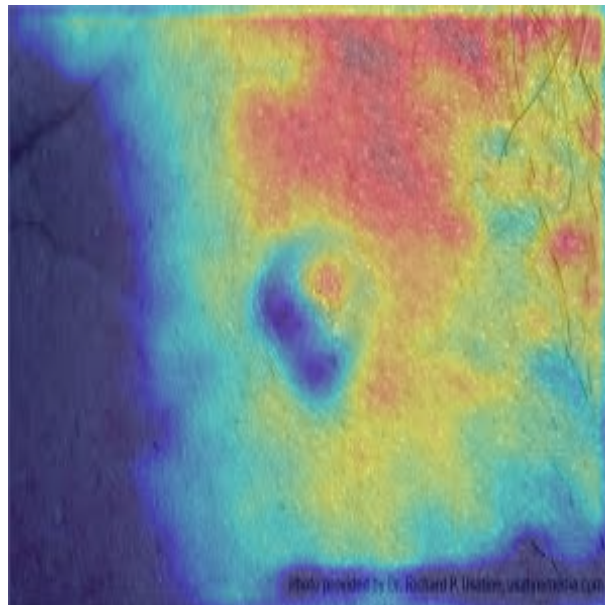
Date: 02 Feb 2026, 11:12 PM

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 Interpretation

- Based on the AI-based skin lesion analysis provided:
- **### 1. Concise Clinical-Style Summary**
- This AI analysis indicates a primary prediction of "Benign" with 67.53% confidence. However, despite this prediction, the overall AI-assigned risk level is **HIGH**. Key morphological features contributing to this elevated risk include a **highly irregular border** (3.63), the presence of **multiple colors** (3 colors), a **diameter significantly above the risk threshold** (13.46 mm), and reported **moderate change** (evolution). Asymmetry was noted as low (0.11).
- **### 2. Risk Interpretation**
- Despite the AI's primary probabilistic classification as "Benign," the overarching AI-determined risk level is high. This high-risk designation is driven by the presence of several concerning ABCDE features: marked border irregularity, multi-coloration, large size, and reported evolution. These characteristics are commonly observed in atypical nevi and melanoma, indicating a need for careful clinical assessment regardless of the initial "Benign" probability score. The AI's internal risk assessment appears to prioritize the concerning morphological features over its probabilistic benign classification in this instance.
- **### 3. Recommended Next Steps**
- Given the AI's "HIGH" risk level and the presence of concerning ABCDE features (irregular border, multiple colors, large diameter, and reported evolution), it is strongly recommended that this lesion undergo prompt professional medical evaluation.
- 1. **Consult a Healthcare Professional:** Seek an in-person evaluation by a dermatologist or a healthcare provider experienced in skin lesion assessment.
- 2. **Clinical Examination:** The healthcare provider will perform a thorough clinical examination, often utilizing dermoscopy, to assess the lesion's characteristics in detail.
- 3. **Further Investigation:** Depending on the clinical findings, the provider may recommend further investigations such as photographic monitoring, biopsy, or excision for definitive histopathological diagnosis.
- 4. **Do Not Self-Diagnose:** Avoid self-diagnosis or delaying professional medical advice.
- **### 4. Clear Disclaimer**
- This AI-based analysis is for informational purposes only and is not a substitute for professional medical advice, diagnosis, or treatment. The AI cannot provide a definitive medical diagnosis or recommend a course of action. Always seek the advice of a qualified healthcare professional with any questions regarding a medical condition or before making any decisions related to your health or treatment.
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- Here's an explanation of your skin lesion analysis report:
- **## 1. What This Result Means**
- This report indicates two important things about your skin lesion:
- * **Prediction: Benign**
- Based on the analysis, the lesion *appears* to have characteristics often associated with non-cancerous skin growths. This is a positive initial indication.
- * **Overall Risk Level: HIGH**
- Despite the benign prediction, the analysis also highlights that your lesion possesses several features that are commonly seen in skin changes that warrant close medical attention. Specifically, the report notes that the border is highly irregular, it has multiple colors, its diameter is larger than a typical threshold, and there has been moderate change observed. These characteristics together contribute to the "HIGH" overall risk level, meaning it's very important to have this lesion evaluated by a healthcare professional.
- In simple terms: While the initial assessment points towards a non-cancerous nature, the presence of these concerning features means a thorough examination by a dermatologist is essential to understand exactly what this lesion is.
- **## 2. Immediate Precautions**

- * **Schedule an Appointment:** The most important immediate step is to schedule an appointment with a dermatologist as soon as possible to have this lesion properly examined.
- * **Protect from Sun:** While awaiting your appointment, make sure to protect this particular lesion, and all your skin, from sun exposure. Cover it with clothing, or stay in the shade.
- * **Avoid Touching:** Do not pick, scratch, or try to alter the lesion in any way.
- ## 3. Skin Protection & Daily Care
- Protecting your skin, especially from the sun, is crucial for overall skin health:
- * **Sunscreen Application:**
 - * 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 at least 15 minutes before going outside.
 - * Reapply every two hours, or more often if swimming or sweating.
- * **Protective Clothing:**
 - * Wear long-sleeved shirts, long pants, and wide-brimmed hats when outdoors.
 - * Look for clothing labeled with an Ultraviolet Protection Factor (UPF).
- * **Seek Shade:**
 - * Limit your time in direct sunlight, especially between 10 AM and 4 PM when the sun's rays are strongest.
- * **Gentle Skincare:**
 - * Use mild cleansers and moisturizers suitable for your skin type.
 - * Stay hydrated by drinking plenty of water.
- * **Avoid Tanning Beds:** Tanning beds emit harmful UV radiation and significantly increase skin cancer risk.
- ## 4. Diet & Lifestyle Support
- Supporting your skin health from within can be very beneficial:
- * **Hydration:** Drink plenty of water throughout the day to keep your skin hydrated and help its natural repair processes.
- * **Nutrient-Rich Diet:**
 - * Focus on a diet rich in fruits, vegetables, and whole grains. These foods are packed with antioxidants, which can help protect your skin cells from damage.
 - * Include sources of healthy fats like omega-3 fatty acids (found in fish, flaxseeds, walnuts) for skin elasticity and overall health.
 - * Limit highly processed foods, sugary drinks, and excessive unhealthy fats.
- * **Stress Management:** High stress levels can impact skin health. Incorporate stress-reducing activities like meditation, yoga, light exercise, or spending time in nature.
- * **Quality Sleep:** Aim for 7-9 hours of quality sleep per night to allow your body and skin to repair and rejuvenate.
- ## 5. Self-Monitoring Guidance
- Regularly checking your skin can help you notice any changes early:
- * **Monthly Self-Exams:** Perform a full-body skin check once a month.
- * **Use Mirrors:** Stand in front of a full-length mirror and use a hand mirror to check hard-to-see areas like your back, scalp, and buttocks. Ask a family member or partner to help with these areas if needed.
- * **Take Photos:** For any spots you're watching, take clear, well-lit photos with a ruler next to the lesion to track changes in size, shape, and color over time.
- * **Remember ABCDE:** When checking your spots, look for these signs:
 - * **A**symmetry: One half doesn't match the other.
 - * **B**order: Irregular, ragged, notched, or blurred edges.
 - * **C**olor: Not uniform; shades of brown, black, tan, white, red, or blue.
 - * **D**iameter: Larger than 6 millimeters (about the size of a pencil eraser). Your lesion is already above this.
 - * **E**volution: Any change in size, shape, color, or elevation, or any new symptoms like bleeding, itching, or crusting.
- ## 6. When to Seek Medical Help
- Given the "HIGH" risk level identified in your report, it's crucial to seek medical help promptly. Here are clear signs that require a dermatologist's consultation:
 - * **Immediately:** You should schedule an appointment with a dermatologist right away for the lesion discussed in this report due to its high-risk features.
 - * **Any Change:** If you notice *any* change in a mole or lesion, regardless of how small, including changes in size, shape, color, elevation, or if it starts to itch, bleed, or become tender.
 - * **New Lesions:** The appearance of any new, unusual, or suspicious-looking spots on your skin.

- * **Concern:** If you simply feel concerned or uneasy about any spot on your skin. Your peace of mind is important.
- ## 7. Emotional Reassurance
- It's completely normal to feel a range of emotions when you receive a report like this. Please remember that taking proactive steps, like scheduling an appointment with a dermatologist, is the best action you can take. While the report indicates a "HIGH" risk level based on certain features, it's an alert to get professional evaluation, not a definitive diagnosis. Many skin changes are benign, and even when medical intervention is needed, early detection significantly improves outcomes. Focus on what you can do next to care for yourself and your skin.
- ## 8. Disclaimer
- Please remember that this analysis is generated by an artificial intelligence and is based solely on the provided data. It is not a medical diagnosis and should not replace professional medical advice. A qualified healthcare professional, such as a dermatologist, is necessary to accurately assess your skin lesion, provide a definitive diagnosis, and recommend the most appropriate course of action. Always 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.