

## Bright Blue Fluorescence of Molluscum Contagiosum Under Ultraviolet-Induced Fluorescence Dermoscopy

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**Citation:** Nisavic M, Todorovska V. Bright Blue Fluorescence of Molluscum Contagiosum Under Ultraviolet-Induced Fluorescence Dermoscopy. *Dermatol Pract Concept*. 2026;16(1):6081. DOI: <https://doi.org/10.5826/dpc.1601a6081>

**Accepted:** June 26, 2025; **Published:** January 2026

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**Funding:** None.

**Competing Interests:** None.

**Authorship:** All authors have contributed significantly to this publication.

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### Case Presentations

We present three cases of *molluscum contagiosum* (MC) with distinct clinical and dermoscopic findings. Cases 1 and 2 were treated with topical potassium hydroxide, resulting in complete resolution within two weeks. Case 3 was confirmed by histopathology. Case 1 presented with multiple umbilicated papules on the penile shaft (Figure 1A). Cases 2 and 3 presented with similar features on the suprapubic and gluteal regions, respectively (Figures 1D, 1G).

Polarized dermoscopy of Case 1 revealed yellow-white polylobular structures with roundish and four-leaf clover-like structures (Figure 1B). Cases 2 and 3 showed yellow-white polylobular roundish structures (Figures 1E, 1H).

UV-induced fluorescence dermoscopy (UVFD) of Case 1 highlighted bright blue fluorescence confined solely to the polylobular roundish structures (Figure 1C). UVFD of Cases

2 and 3 revealed bright blue fluorescence of the polylobular roundish structures (Figures 1F, 1I).

### Teaching Point

Under UVFD, MC lesions are typically dark, likely due to increased vascularity, with occasional faded yellowish fluorescence visible in central pores [1]. In addition to these genital/perigenital cases, we observed a distinct bright blue fluorescence of polylobular structures in other anatomical regions. Yellowish fluorescence in central pores is well known, while bright blue fluorescence in polylobular structures is a novel finding, in our experience. This previously unreported UVFD finding may correspond to fluorescence of keratin-rich, inverted acanthotic lobules within the epidermis (likely due to keratin oxidation) and suggests a potentially novel UVFD feature of MC, requiring further investigation [2].



**Figure 1.** (A) Clinical image of *molluscum contagiosum* (MC): Dome-shaped umbilicated papule on the penile shaft. (B) Polarized dermoscopy: yellow-white polylobular structures with roundish and four-leaf clover-like structures. (C) UV-induced fluorescence dermoscopy (UVFD): bright blue fluorescence confined solely to the polylobular roundish structures. (D) Clinical image of MC: Multiple dome-shaped, umbilicated papules on the suprapubic region. (E) Polarized dermoscopy: yellow-white polylobular roundish structures. (F) UVFD: bright blue fluorescence of polylobular roundish structures. (G) Clinical image of MC: Multiple dome-shaped, umbilicated papules on the gluteal region. (H) Polarized dermoscopy: yellow-white polylobular roundish structures. (I) UVFD: bright blue fluorescence of polylobular roundish structures. All dermoscopic images acquired using *DermLite DL5* at 10× magnification in polarized or ultraviolet mode, paired with an *iPhone 13*. Images provided by the main author and co-author.

## References

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