DX ACROSS THE SKIN COLOR SPECTRUM

Beyond the Razor: Managing Pseudofolliculitis Barbae in Skin of Color

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A Pustules, erythematous to violaceous nodules, and hyperpigmented patches on the lower cheek and chin.

- B Brown papules, pink keloidal papules and nodules, pustules, and hyperpigmented papules on the mandibular area and
- C Coarse hairs, pustules, and pink papules on the mandibular area and neck.

Photographs courtesy of Richard P. Usatine, MD.

seudofolliculitis barbae (PFB), also known as razor bumps, is a common inflammatory condition characterized by papules and pustules that typically appear in the beard and cheek regions. It occurs when shaved hair regrows and penetrates the skin, leading to irritation and inflammation. While anyone who shaves can develop PFB, it is more prevalent and severe in individuals with naturally tightly coiled, coarse-textured hair.^{1,2} PFB is common in individuals who shave frequently due to personal choice or profession, such as members of the US military^{3,4} and firefighters, who are required to remain clean shaven for safety (eg, ensuring proper fit of a respirator mask).5 Early diagnosis and treatment of PFB are essential to prevent long-term complications such as scarring or hyperpigmentation, which may be more severe in those with darker skin tones.

Epidemiology

PFB is most common in Black men, affecting 45% to 83% of men of African ancestry. This condition also can affect individuals of various ethnicities with coarse or curly hair. The spiral shape of the hair increases the likelihood that it will regrow into the skin after shaving. Women with hirsutism who shave also can develop PFB.

Key Clinical Features

The papules and pustules seen in PFB may be flesh colored, erythematous, hyperpigmented, brown, or violaceous. Erythema may be less pronounced in darker vs lighter skin tones. Persistent and severe postinflammatory hyperpigmentation may occur, and hypertrophic or keloidal scars may develop in affected areas. Dermoscopy may reveal extrafollicular hair penetration as well

as follicular or perifollicular pustules accompanied by hyperkeratosis.

Worth Noting

The most effective management for PFB is to discontinue shaving. If shaving is desired or necessary, it is recommended that patients apply lukewarm water to the affected area followed by a generous amount of shaving foam or gel to create a protective antifriction layer that allows the razor to glide more smoothly over the skin and reduces subsequent irritation.2 Using the right razor technology also may help alleviate symptoms. Research has shown that multiblade razors used in conjunction with preshave hair hydration and postshave moisturization do not worsen PFB.² A recent study found that multiblade razor technology paired with use of a shave foam or gel actually improved skin appearance in patients with PFB.7

It is important to direct patients to shave in the direction of hair growth; however, this may not be possible for individuals with curly or coarse hair, as the hair may grow in many directions.^{8,9} Patients also should avoid pulling the skin taut while shaving, as doing so allows the hair to be clipped below the surface, where it can repenetrate the skin and cause further irritation. As an alternative to shaving with a razor, patients can use hair clippers to trim beard hair, which leaves behind stubble and interrupts the cycle of retracted hairs under the skin. Nd:YAG laser therapy has demonstrated efficacy in reduction of PFB papules and pustules. 9-12 Greater mean improvement in inflammatory papules and reduction in hair density was noted in participants who received Nd:YAG laser plus effornithine compared with those who received the laser or eflornithine alone. 11 Patients should not pluck or dig into the skin to remove any ingrown hairs. If a tweezer is used, the patient

should gently lift the tip of the ingrown hair with the tweezer to dislodge it from the skin and prevent plucking out the hair completely.

To help manage inflammation after shaving, topical treatments such as benzoyl peroxide 5%/clindamycin 1% gel can be used.^{3,13} A low-potency steroid such as topical hydrocortisone 2.5% applied once or twice daily for up to 2 to 3 days may be helpful.^{1,14} Adjunctive treatments including keratolytics (eg, topical retinoids, hydroxy acids) reduce perifollicular hyperkeratosis.^{14,15} Agents containing alpha hydroxy acids (eg, glycolic acid) also can decrease the curvature of the hair itself by reducing the sulfhydryl bonds.⁶ If secondary bacterial infections occur, oral antibiotics (eg, doxycycline) may be necessary.

Health Disparity Highlight

Individuals with darker skin tones are at higher risk for PFB and associated complications. Limited access to dermatology services may further exacerbate these challenges. Individuals with PFB may not seek medical treatment until the condition becomes severe. Clinicians also may underestimate the severity of PFB—particularly in those with darker skin tones—based on erythema alone because it may be less pronounced in darker vs lighter skin tones. ¹⁶

While permanent hair reduction with laser therapy is a treatment option for PFB, it may be inaccessible to some patients because it can be expensive and is coded as a cosmetic procedure. Additionally, patients may not have access to specialists who are experienced in performing the procedure in those with darker skin tones. Some patients also may not want to permanently reduce the amount of hair that grows in the beard area for personal or religious reasons.

PFB also has been linked to professional disparities. One study found that members of the US Air Force who had medical shaving waivers experienced longer times to promotion than those with no waiver. ¹⁸ Delays in promotion may be linked to perceptions of unprofessionalism, exclusion from high-profile duties, and concerns about career progression. While this delay was similar for individuals of all races, the majority of those in the waiver group were Black/African American. In 2021, 4 Black firefighters with

PFB were unsuccessful in their bid to get a medical accommodation regarding a New York City Fire Department policy requiring them to be clean shaven where the oxygen mask seals against the skin.⁵ More research is needed on mask safety and efficiency relative to the length of facial hair. Accommodations or tailored masks for facial hair conditions also are necessary so individuals with PFB can meet job requirements while managing their condition.

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