We report the case of a 24-year-old man who presented with pustules, atrophic scars, and alopecia on the scalp, along with follicular keratotic papules on the cheeks, chest, abdomen, back, lateral upper arms, thighs, and axillae, of 6 years’ duration. A diagnosis of folliculitis spinulosa decalvans (FSD) was made based on the clinical manifestation and histopathological findings. Dental examination also revealed dental anomalies and a fissured tongue, which are not known to be related to FSD. We provide an overview of the characteristic findings of FSD as well as a review of previously reported cases.

Erythema, scales, and follicular keratotic papules of the superciliary arches with sparse eyebrows and axillary hairs were noted. Follicular keratotic papules also were observed on the cheeks, axillae, chest, abdomen, back, lateral upper arms, and thighs. Dental examination revealed a large space between the upper anterior teeth and the lower anterior teeth. The upper anterior teeth were anteverted, there was congenital absence of right lower central incisors, and the anterior teeth were in deep overbite and overjet (Figure 1B). There was gingival atrophy and calculus dentalis in the upper and lower teeth. He had a fissured tongue with atrophic filiform papillae (Figure 1C).

Laboratory testing of the blood, urine, stool, hepatic and renal function, and serum vitamin B₁₂ and B₂ levels were all within reference range. A panoramic radiograph of the occlusal surface showed congenital absence of right lower central incisors (Figure 2), and a lateral projection of a cranial radiograph confirmed that the anterior teeth were in deep overbite and overjet. Direct microscopy and fungal culture of material collected from the dorsal tongue were negative. Direct microscopy and fungal culture of diseased hairs also were negative. A rapid plasma reagin test, *Treponema pallidum* hemagglutination assay, and human immunodeficiency virus test were negative. *Staphylococcus aureus* was isolated from the scalp pustules, and in vitro drug susceptibility testing showed that it was sensitive to clarithromycin and moxifloxacin.

Pathological examination of a biopsy of the occipital skin lesions showed a thickened epidermal spinous layer and massive infiltration of plasma cells, neutrophils, and multinucleated giant cells around the hair follicles (Figure 3). Pathological examination of the skin lesions on the superciliary arch also

![Figure 1](https://example.com/figure1.jpg)

**Figure 1.** Characteristic lesions of folliculitis spinulosa decalvans on the scalp (A). This patient also presented with a large space between the upper anterior teeth and lower anterior teeth (B). Anteversion of the upper anterior teeth, congenital absence of right lower central incisors, and deep overbite and overjet of the anterior teeth also were seen. A fissured tongue with atrophic filiform papillae also was present (C).

![Figure 2](https://example.com/figure2.jpg)

**Figure 2.** A panoramic radiograph of the occlusal surface revealed congenital absence of right lower central incisors.
showed infiltration of inflammatory cells in the dermis around the hair follicles.

Based on these findings, a diagnosis of folliculitis spinulosa decalvans (FSD) was made and the patient was started on clarithromycin (0.25 g twice daily), metronidazole (0.2 g 3 times daily), viaminate (50 mg 3 times daily), and fusidic acid cream (coating the affected area twice daily). When he returned for follow-up 1 month later, the pustules had disappeared and the black scabs had fallen off, leaving atrophic scars. The long-term efficacy of this regimen is still under observation.

**Comment**

Folliculitis spinulosa decalvans, along with keratosis follicularis spinulosa decalvans (KFSD), keratosis pilaris atrophicans faciei, and atrophoderma vermiculatum, belongs to a group of diseases that includes keratosis pilaris atrophicans. In 1994, Oranje et al suggested the term *folliculitis spinulosa decalvans*, with signs including persistent pustules, characteristic keratotic papules, and scarring alopecia of the scalp, which may be exacerbated at puberty. *Staphylococcus aureus* was isolated from the pustules in one study; however, in another study, repeated cultures were negative. Although the main inheritance pattern of KFSD is X-linked, autosomal-dominant inheritance is more common in FSD. Furthermore, there are certain differences in the clinical manifestations of these 2 conditions. Therefore, it remains controversial if FSD is an independent disease or merely a subtype of KFSD.

Our patient’s symptoms manifested after puberty, primarily pustules as well as atrophic and scarring alopecia of the scalp and follicular keratotic papules on the head, face, trunk, lateral upper arms, and thighs. Pathologic examination showed massive infiltration of plasma cells, neutrophils, and multinucleated giant cells around the hair follicles. The clinical and histopathologic findings met the diagnostic criteria for FSD.

Folliculitis spinulosa decalvans is a rare clinical condition with few cases reported. In addition to the aforementioned characteristic clinical manifestations, our patient also had dental anomalies, a fissured tongue, and atrophy of the tongue papillae, which are not known to be associated with FSD. Dental anomalies are characteristic of patients with Down syndrome, ectodermal dysplasia, Papillon-Lefèvre syndrome, and other conditions. Fissured tongue is a normal variant that occurs in 5% to 11% of individuals. It also is a classic but nonspecific feature of Melkersson-Rosenthal syndrome and may occur in psoriasis, Down syndrome, acromegaly, and Sjögren syndrome. Atrophy of the tongue papillae is associated with anemia, pellagra, Sjögren syndrome, candidiasis, and other conditions. Because there are no known reports of associations between FSD and any of these oral manifestations, it is possible that they were unrelated to FSD in our patient.

Folliculitis spinulosa decalvans usually is recurrent and there is no consistently effective treatment for it. Kunte et al reported that dapsone (100 mg/d) led to resolution of scalp inflammation and pustules within 1 month. Romine et al reported that a 3-week course of dicloroxacillin (250 mg 4 times daily) induced disappearance of pustules around the hair follicles. However, Hallai et al reported a patient who was resistant to isotretinoin treatment. In our case, after 1 month of treatment with clarithromycin, metronidazole, viaminate,
and fusidic acid cream, the pustules had resolved and the black scabs had fallen off, leaving atrophic scars. The long-term efficacy of this regimen is still under observation.

Conclusion
We report a case of FSD with dental anomalies, a fissured tongue, and atrophy of tongue papillae, none of which have previously been reported in association with FSD. We, therefore, believe that our patient's oral manifestations are unrelated to FSD.

REFERENCES