Subungual SCC is a low-grade malignant tumour with >150 cases reported in literature. It may arise from nail bed, matrix, groove or nail folds. It usually affects elderly males with thumb being the most common site of involvement. Early clinical manifestations are paronychia, onychomycosis, onycholysis, dyschromia of the nail plate, subungual hyperkeratosis, chronic granulation of the nail bed, ingrown nail and nail deformity. The presence of ulceration, bleeding and nodule formation indicates its invasive nature. The nail plate changes include dystrophic nail, ingrown nail and partial or total nail loss. Multiple digit involvement of the nail bed is a rare presentation, also known as synchronous SCC. Trauma and radiation are suspected as predisposing factors in such cases. Bone involvement is seen in >20% of patients. Nodal involvement is seen in 2% of patients. Nail biopsy is important in recurrent and persistent lesions for early diagnosis of SCC and to preserve maximal function of the hand. Treatment modalities include Mohs micrographic surgery, amputation of the distal phalanx, electrosurgery, liquid nitrogen, photodynamic therapy, radiation therapy, intra-arterial infusion with chemotherapy, imiquimod, 5-fluorouracil and lymph node dissection in case of metastasis. Amputation has the highest cure rate and is indicated in case of long-standing carcinoma or bony involvement. We present this case for rare occurrence of SCC of nail bed of ring finger as thumb being the most common site and role of histopathology in the diagnosis of SCC. A biopsy is essential in all patients with any chronic nail condition that fails to respond to conventional treatment, for a reasonable period of time as an underlying malignancy can mimic a benign nail pathology. Financial support and sponsorship Nil. Conflicts of interest There are no conflicts of interest.
A 19-year-old unmarried female presented with asymptomatic pigmented spots on the face, flexural areas such as axillae, groins, antecubital fossae, popliteal fossae and dorsum of hands since 8 years. The major complaint of the patient was cosmetic disfigurement produced by the pigmented spots and pits on the face. None of the family members were affected similarly.

Cutaneous examination revealed multiple hyperpigmented macules with comedo-like papules over face [Figure 1a and b], forehead [Figure 1c] sides of the neck, axillae, antecubital [Figure 1d] and popliteal fossae, groins [Figure 1e] and dorsum of the hands [Figure 1f]. Multiple pitted scars were present on the face, upper chest and back.

Skin biopsy from the hyperpigmented macules revealed hyperkeratosis, elongated and bifurcated rete ridges (‘antler like’ rete ridges) with increased melanin pigment at the lower part of rete [Figure 2a]. Keratotic plugging of the pilosebaceous orifice with melanin incontinence in the dermis [Figure 2b]. Based on clinical and histologic findings, diagnosis of DDD was made.

The patient was advised laser therapy for her facial lesions and topical adapalene 0.1% for her body lesions. She was first treated with three sessions of Q-switched Nd: YAG laser every 3 weeks followed by two sessions of fractional CO₂ laser each at an interval of 4 weeks. Depending on the lesions, for Q-switched Nd: YAG laser spot sizes used were ranging from 6 to 8 mm in diameter, with a frequency or repetition rate of 3–5 Hz and a pulse energy of 1000–1200 mJ (670–690 volts). Parameters used for fractional CO₂ laser include spot diameter of 0.8–1.2 mm, pulse energy of 20–22 watts, pulse duration of 5–7 m, and spot density was 100–150 MTZ/cm². Post-procedure sunscreen was advised, and topical adapalene was continued between the sessions.

After 5 sessions of laser therapy, patient showed remarkable improvement in hyperpigmentation and scarring [Figure 3a-c]. The patient was followed up for 1 year with no recurrence of lesions.

DDD is a type of reticulate pigmentary disorder (OMIM Number: 179850). It is also known as reticulate pigmented anomaly of flexures and Dowling-Degos-Kitamura disease. The mode of inheritance is either sporadic or autosomal dominant. The proposed pathogenesis is a loss of function mutation on chromosome 12 (in the KRT5 gene encoding for keratin 5), leading to melanosome uptake deficiencies and structural defects in hair follicles and sebaceous glands.[1] The characteristic histologic feature is filiform elongation of rete ridges with antler-like configuration.[2] It usually appears after puberty with female preponderance. The sites commonly involved are axillae, groins, inframammary area, face, sides of the neck, popliteal and antecubital fossae, rarely genitals, vulva and back.[3] The major clinical manifestations are acquired hyperpigmentation affecting the flexures, pitted perioral acniform scars and hyperkeratotic comedo-like lesions on the neck. Rare manifestations include dystrophic fingernails, multiple keratoacanthomas, pilonidal sinus, seborrheic keratosis and hidradenitis suppurativa.
Many different treatment options have been tried in recent years without convincing therapeutic benefits which includes depigmenting agents such as hydroquinone, as well as systemic and topical retinoids. Various lasers especially Erbium YAG and fractional Erbium YAG have been beneficial in treating DDD.\(^{[4,5]}\)

Q-switched Nd: YAG laser 1064 nm has been successfully used in pigmented disorders due to its longer wavelength, higher fluence and shorter pulse while it is less efficacious in scarring. Due to its selective photothermolysis, there is no damage to the surrounding area. It is a painless procedure done in <20 min with mild erythema post-procedure which fades in an hour.

Fractional CO\(_2\) laser is effective in scarring due to its fractional photothermolysis and safe with continued improvement over time.

Combination of ablative technology with fractional thermolysis is an effective option for pigmentation and scarring with minimal side effects. This combination was successfully used in acne scarring and exogenous ochronosis.

Considering the limited treatment options, our case suggests that combination of Q-switched Nd: YAG and fractional (CO\(_2\)) lasers might be a successful strategy in the management of DDD.

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**Conflicts of interest**
There are no conflicts of interest.

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