Darier Disease
Darier's disease is usually transmitted in an autosomal dominant pattern. It has been found to be due to...
The oral mucosa is involved occasionally. In some cases of Darier's disease, keratotic papules that resemble those seen in acrokeratosis verruciformis of Hopf are found on the dorsa of the hands and feet.

Special clinical variants of keratosis follicularis are a hypertrophic type, a vesiculobullous type, and a linear or segmental type, usually limited to one side, there are either localized or widespread lesions that may be present at birth but in most cases have arisen in infancy, childhood, or adult life. The question has been raised as to whether this type of lesion represents a linear epidermal nevus with acantholytic dyskeratosis rather than Darier's disease, and the designation acantholytic dyskeratotic epidermal nevus has been suggested. It is quite likely that some of the cases with scattered papular lesions of limited extent arising in adult life and diagnosed as acute, eruptive Darier's disease or acute adult-onset Darier-like dermatosis in reality represented transient acantholytic dermatosis. A recent review on the clinical aspects of this condition has been written.
Histopathology
The characteristic changes in Darier's disease include the following: (a) a peculiar...
The corps ronds occur in the upper stratum malpighii, particularly in the granular and horny layers; grains are found in the horny layer and as acantholytic cells within the lacunae. Corps ronds possess a central homogeneous, basophilic, pyknotic nucleus that is surrounded by a clear halo. By virtue of size and the conspicuous halo, corps ronds stand out in histological examination, some of them appear in cross section as rounded dermal structures lined by a solitary row of basal cells.
Hyperkeratosis and papillomatosis may cause the formation of keratotic plugs, which often fill the pilosebaceous follicles.
that areas devoid of follicles, such as palms, soles, and the oral mucosa, may be affected.

In hypertrophic lesions of Darier's disease, considerable acanthosis may occasionally be observed, either

The vesiculobullous lesions, which occur in rare instances, differ from lacunae merely in size; they contain
The keratotic papules that may occur on the dorsa of the hands and feet and that clinically resemble those seen in acrokeratosis verruciformis often supra basal clefts as well. They are a manifestation of Darier's disease and not of acrokeratosis verruciformis.

The lesions on the oral mucosa are analogous in appearance to those observed on the skin and thus show lacunae and dyskeratosis, although definite well-formed corps ronds generally are absent.
The occasional reports of patients having both Darier's disease and familial benign pemphigus or a transition from one of these two diseases to the other are discussed in the differential diagnosis of familial benign pemphigus.

Pathogenesis. Whereas histologically a distinction between Darier's disease and familial benign pemphigus is generally possible, with Darier's disease showing dyskeratosis and acantholysis in many and dyskeratosis in others and only rarely showing both. In both diseases, however, acantholysis precedes dyskeratosis.
Acantholysis has been thought by some authors to be due to the loss of the intercellular contact layer within desmosomes, both in Darier's disease and in familial benign pemphigus. The two halves of the desmosomes then pull apart, after which the tonofilaments become...
The cause for the acantholysis in Darier's disease and familial benign pemphigus is not yet definitely known. Faulty calcium signaling pathways are implicated in these diseases. The dysfunction of the SERCA2 pump in the calcium signaling pathway that regulates cell to cell adhesion and differentiation of the epidermis is one such mechanism.

In association with the loss of desmosomes, excessive amounts of tonofilaments form within the keratinocytes. This results in the dyskeratosis being much more pronounced than in familial benign pemphigus, thick bundles of tonofilaments, often in a parallel orientation, form within the keratinocytes.
association with large keratohyaline granules, form large aggregates of homogenized dyskeratotic material.
In familial benign pemphigus, too, after loss of the desmosomes, excessive amounts of tonofilaments form...
On intralesional injection of tritiated thymidine, one group observed labeling of many acantholytic keratinocytes in familial benign pemphigus but not in Darier's disease, suggesting that in familial benign pemphigus, the epidermal cells participated in the renewal of the epidermis but did not do so in Darier's disease, probably because these cells were undergoing keratinization. However, another group could not confirm this observation.

Differential Diagnosis
Although acantholytic dyskeratosis in association with corps ronds is highly characteristic of Darier's disease, it can also be found in other conditions.

. Occasionally, a few corps ronds are seen also in familial benign pemphigus.