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Keratoacanthoma

What are keratoacanthomas?

Keratoacanthomas (KAs) are very rapidly growing squamo-proliferative lesions that look like well-differentiated squamous cell carcinomas (SCCs) pathologically. Keratoacanthomas are characterised by rapid growth over a few weeks to months, followed by spontaneous resolution over 4-6 months in most cases.

Keratoacanthomas are benign epidermal growths and not a malignant variant of SCC. [1]

How common are keratoacanthomas? (Epidemiology)

- Incidence is estimated at 1 in 1,000.
- Peak incidence occurs in those aged over 60 years. It is rare in young adults.
- It is uncommon in darker-skinned patients.
- Males are twice as often affected as females.
- Epidemiological data are similar to SCC and Bowen's disease in terms of age, sex and the site of lesions.

Risk factors

- Sunlight and chemical carcinogens have been implicated.
- Trauma, genetic factors and immunocompromised status have also been associated.
- Industrial workers exposed to pitch and tar have a higher incidence of both keratoacanthoma and SCC.

Keratoacanthoma symptoms

- Typically, rapid growth over a few weeks to months, followed by a slow spontaneous resolution over 4-6 months (but may take up to one year).
- Most occur on sun-exposed areas eg, the face, neck, and dorsum of hands and forearms.
- They are usually solitary and begin as firm, round, skin-coloured or reddish papules that rapidly progress to dome-shaped nodules with a smooth shiny surface. A central crater of ulceration may develop, or a keratin plug that may project like a horn.
- They leave a residual scar if not excised.
- A recent large systematic review has shown that none of the cases of keratoacanthoma from 113 published articles resulted in death or distant metastases. This was compared with 429 cases of SCC of the skin, with 61 cases of metastases and 24 deaths as a direct result of SCC. The authors clearly state that the biological behaviour of the keratoacanthomas and SCCs is distinct and evident. [1]
- Generalised eruptive keratoacanthoma (GEKA) of Grzybowski is a sporadically occurring, extremely rare variant of KA characterised clinically by severely pruritic, generalised eruption of numerous small follicular papules, often with a central keratotic plug, and histologically by typical features of solitary keratoacanthoma. [2]



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Differential diagnosis^{[3] [4]}

- SCC.
- Basal cell carcinoma.
- Actinic keratosis.
- Seborrhoeic wart.

Investigations

- Shave biopsy of keratoacanthoma is indistinguishable from invasive SCC. Therefore, excisional or deep incisional biopsy is required.
- A recent study has demonstrated that there is a large regional variation in the diagnosis of keratoacanthoma and SCCs in Great Britain and Ireland. [5]
- This is because microscopic differentiation between these two entities is often problematic, and sometimes impossible. [6]

Keratoacanthoma treatment and management

- As they are hard to distinguish from SCCs, patients with suspected keratoacanthomas should be referred under the two-week waiting system. However, the patient can be reassured that they will not cause harm.
- Complete excision is the treatment of choice for all skin lesions thought to be keratoacanthoma.
- Medical treatment is reserved for when surgical intervention is not possible - eg, multiple lesions not amenable to surgery because of size or location.
- Treatments that have produced some success include systemic retinoids (eg, isotretinoin), intralesional methotrexate, 5-fluorouracil, bleomycin and steroids, and topical imiquimod, and 5-fluorouracil.
 [7] [8]

Prognosis

- Prognosis is excellent following excisional surgery. Recurrence after surgical resection is rare. [9]
- Without surgery, prognosis is usually good; however, there is a major controversy over the natural behaviour of KA. keratoacanthomas have been described as benign lesions, but also as variants of SCC.
 [6]

Prevention of keratoacanthomas

Patient education in sun-protection is important.

Further reading

- Keratoacanthoma; DermNet NZ
- Zito PM, Scharf R; Keratoacanthoma. StatPearls, Aug 2022.
- Keratoacanthoma; Primary Care Dermatology Society.

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