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#### Milia

#### What are milia?

Milia are very common, benign, keratin-filled epidermoid cysts that occur in individuals of all ages, from infants to elderly persons.  $^{\left[1\right]}$ .

- Primary milia arise spontaneously and are typically seen in infants, when they are congenital, but may also occur in children and adults.
   Primary milia arise on skin bearing vellus hair follicles, most commonly on the face.
- Secondary milia result from damage to eccrine ducts.
- Milia en plaque and multiple eruptive milia are distinct entities.

### How common are milia?[1]

- Milia are common in all ages and both sexes. Congenital milia affect approximately 50% of infants.
- Multiple eruptive milia and milia en plaque are extremely rare.

# Milia symptoms<sup>[2]</sup>

- Milia are superficial, uniform, pearly-white to yellowish, domed lesions measuring 1-2 mm in diameter.
- Milia most often arise on the face and are particularly prominent on the eyelids and cheeks, but they may occur elsewhere, including the genitalia.
- They are usually asymptomatic but may be itchy.

#### Primary milia

- Primary milia in infants occur on the face, especially the cheeks, nose and around the eyes. They may be more widespread on the scalp, face and upper trunk.
- Congenital oral inclusion cysts such as those found on the mucosa (Epstein's pearls) and palate (Bohn's nodules) are thought to be the oral counterparts of milia.
- Primary milia in children and adults are most often on the eyelids, cheeks, forehead and genitalia. They may clear in a few weeks or persist for months or longer.
- Juvenile milia may be present at birth or appear later in life. They
  may be associated with other genetic disorders.



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## Milia en plaque<sup>[3]</sup>

- The small papules arise on a distinct, erythematous plaque in the postauricular area, unilaterally or bilaterally.
- They are usually seen behind the ears, but may be on the eyelids, cheeks or on the jaw. Submandibular plaques and lesions on the pinna have been reported.<sup>[4]</sup>
- They especially affect middle-aged women and may be associated with other skin disease - eg, pseudoxanthoma elasticum, discoid lupus erythematosus, lichen planus. [2]

#### Multiple eruptive milia

Crops of milia appear over a few weeks to months.<sup>[5]</sup> Most often, they affect the face, upper arms and upper trunk.<sup>[2]</sup>

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## Secondary milia [1]

These are found anywhere on the body, depending on the predisposing condition:

- Disease: post-bullous, typically epidermolysis bullosa and porphyria cutanea tarda but can also occur after other skin conditions - for example, contact dermatitis or lichen sclerosis.
- Medication associated with milia includes topical steroids, 5fluorouracil, ciclosporin and penicillamine.
- Traumatic abrasions are a common cause of milia in children. They
  can also occur following, for example, second-degree burns,
  dermabrasion or radiotherapy.

## Investigations

- The clinical appearance is diagnostic in simple milia and no further investigations are required.
- In elderly people with sun-damaged skin, a biopsy may be needed to exclude nodular elastosis of the skin (Favre-Racouchot syndrome). If milia en plaque are suspected, a biopsy is prudent to confirm the diagnosis.

## Differential diagnosis<sup>[2]</sup>

- Acne vulgaris Closed comedones are more cream than white. They
  also usually have a small punctum as well as being associated with
  open (black) comedones.
- Syringomas are small papules on lower eyelids and are skincoloured
- Xanthelasma are yellow, flat plaques over the upper or lower eyelids.
- Basal cell carcinoma.
- Trichoepithelioma.
- Follicular (or alopecia) mucinosis.

#### Milia treatment

- Usually no treatment is required.
- Some milia may be removed with a needle, as they often shell out easily (this doesn't require anaesthetic). [6]
- Topical peeling agents do not work.

## **Prognosis**

They are harmless but can be unsightly. They tend to resolve within a few weeks in infants but may persist in older children and adults.

#### When to refer milia

For confirmation of diagnosis or reassurance. It is worth referring patients with suspected milia en plaque.

## **Further reading**

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