Continuing Medical Education

Demodex mites are commensals of the pilosebaceous unit, and are occasionally implied in facial dermatoses.

Choose the one best answer:

- The diagnosis of demodicidosis is made clinically and best supplemented by
 - A. catching the female mite with a needle
 - B. culture on armadillo or in foot pad of mice.
 - C. scraping & KOH; cynaloacry late skin surface biopsy
 - D. 20 MHz ultrasound imaging
- 2. The findings may be considered pathogenic if
 - A. 5< mites per low power field or cm²
 - B. you easily catch a mite
 - C. mites grow on simple agaragar
 - D. you find calcifications on ultrasound

Several of the answers to the following questions may be correct. You are asked to identify the correct pattern of these:

- A. Only statement i is correct.
- B. Statement i, ii and iv are correct
- C. Statement ii and iii are correct
- D. Statement i and iv are correct
- 3. Demodex mites are thought to be key pathogenic factors of which facial diseases:
 - i. Acne vulgaris: Comedones, papules and pustules, mainly in young adults
 - ii. Pityriasis folliculorum: Itching/ burning, faint erythema and 'frosted' appearance in women
 - iii. Rosacea-like demodicidosis:
 Follicular scaling, superficial
 papulovesicles/vesicopustules,
 without flushing, erythema or
 teleangiectasia
 - iv. Seborrhoeic dermatitis: Erythema and scaling in seborrhoeic areas

- 3. If demodicidosis is diagnosed the possible treatments include:
 - i. topical crotamitone
 - ii. systemic tetracycline
 - iii. topical lindane 1%
 - iv. topical benzoyl benzoate

and Demodex blepharoconjunctivitis have been associated with mites. They may also aggravate rosacea, but mites are allegedly absent from acne lesions. Mites have not been implied in seborrhoeic dermatitis.

4.D. Many drugs have been recommended: salicylic acid, retinoids, sulphur, topical metronidazole, etc. One randomised study has described acaticidal activity of crotamitone 10% used once daily and benzyl benzoate 10% used twice daily.

low power field or cm² in a cyannoacrylate skin surface biopsy is it clearly pathological.

3.C. Pityriasis folliculorum, Rosacea-like demodicidosis, Demodicidosis gravis (similar to severe granulomatous rosacea)

gland). They are too small for catching with a needle, cannot be cultured and do not show in ultrasound scans. 2.A. The mite-prevalence is thought to be 100% in middle-aged or older individuals. Only if 5 or more mites are seen per

Suggested answers:

1.C. Two types of mite reside in the follicle: Demodex folliculorum (in the infundibulum) and Demodex brevis (deeper follicle and sebaceous

Recommended answers (based on Baima B, Sticherling M: Demodicidosis revisited. Acta Derm Venerol 2002; 82: 3-6).