CORE TUTORIALS IN DERMATOLOGY FOR PRIMARY CARE

PDP SELF-TEST QUESTIONNAIRE

ACNE



UPDATED PDP SELF-TEST QUESTIONNAIRE MARCH 2023

Inspect the skin to establish the extent of 'submarine' comedones

CORE TUTORIALS IN DERMATOLOGY FOR PRIMARY CARE

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PDP SELF-TEST QUESTIONNAIRE



INTRODUCTION

This 'self-test questionnaire' has been written by Dr Brian Malcolm, based on the updated (2022) Chapter 6 "Acne" of the Core Tutorials in Dermatology for Primary Care. This revised Chapter can be ordered from Dermal at the address below. Alternatively, the Chapter is available to download from the Dermal website www.dermal.co.uk within the Healthcare Professionals Core Tutorials in Dermatology section.

DERMAL RESOURCES



For 60 years Dermal has focused on researching and developing innovative dermatological treatments. In addition, Dermal has developed an extensive range of educational resources to assist healthcare professionals and patients. These can be found on the Dermal website - www.dermal.co.uk. Our Healthcare Professionals section of the website contains a variety of information and educational materials, such as information about our range of products, resources for healthcare professionals and patients, the Core Tutorials in Dermatology series and links to useful external websites.

The Core Tutorials in Dermatology series are also available as engaging webinars, to complement the written Chapters. These can also be found on the Dermal website.

The webinar on Acne provides a useful overview of the topic including assessment, differential diagnosis, treatment options and referral criteria.



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QUESTIONS



QUESTIONS

6. What are the most common side-effects of systemic isotretinoin?
7. What is the current advice for the duration of any single course of antibiotics in the treatment of acne?
8. What is the peak age of severity of acne for males?
9. What is the principle mode of action of benzoyl peroxide?
10. From what natural resource is nicotinamide used in the treatment of inflammatory acne derived from?

REFLECTIVE LEARNING

11. What did I find useful about the learning module on 'acne'?	
12. Having reflected on this module, how might my practice change managing acne?	in

Hypertrophic Scarring, Keloid Scarring, Ice Pick Scarring, Atrophic Macular Scarring. QUESTION 5. Answer: Any 3 of these 4 options

Ref page 1 "HYPERTROPHIC/KELOID SCARS

Keloid Scars - Elevated, surface smooth and pink with irregular shape.

ATROPHIC MACULAR SCARS

Atrophic Macular Scars - Depressed 5-20mm diameter, typically red or violaceous.

ICE-PICK SCARS

Ice Pick Scars - Small, superficial to deep with well defined edge."

QUESTION 6. Answer: • Dry skin

- Cheilitis
- Myalgia
- Conjunctivitis

Ref page 11 "Common side effects are cheilitis, which is almost invariable, dry

headaches and disordered liver function and lipid profile can occur." skin, mild conjunctivitis and myalgia. More rarely, paronychia, hyperhidrosis,

QUESTION 7. Answer: 3-6 months.

review. Full dosage can be continued thereafter for a further 12 weeks if required." must be at adequate dosage as illustrated above and be carried on for 12 weeks before are not sufficient, or for more severe acne whilst awaiting specialist opinion. Courses combination with non antibiotic topical treatments, or when topical treatments alone Ref page 8 "Systemic antibiotics should be used for moderate to severe acne in

Ref page 9 "Best practice" guidelines to reduce antibiotic resistance

- Do not continue treatment for longer than six months at any one time
- If further treatment is required, reuse the same drug; short intervening courses of a

topical antibacterial such as benzoyl peroxide may help eradicate resistant organisms"

QUESTION 8. Answer: Age 16-19

severity at 14-17 in females and 16-19 in males." in approximately 15%. The age of onset is approximately 12 years with peak females and 95% of males1, although it is only considered 'clinically significant' care physician and specialist alike. It affects to some degree 85% of adolescent Ref page I "Acne, unarguably, is 'core' clinical material in dermatology for primary

of papules/pustules; can produce a protound reduction in surface bacteria counts anaerobic C. acnes, therefore most useful for inflammatory acne with the presence Ref page 5 "Works predominately as an antimicrobial by virtue of oxidisation of QUESTION 9. Answer: It works as an antimicrobial active against C. acnes

QUESTION 10. Answer: Vitamin B₃

Ref pase 6 "Vicotinamide

- Vitamin B₃ derivative

".(blof 001 x)

- Active against inflammatory acne
- Similar in efficacy to topical antibiotics but with no risk of resistance/"



ANSWERS (PLEASE TURN UPSIDE DOWN)

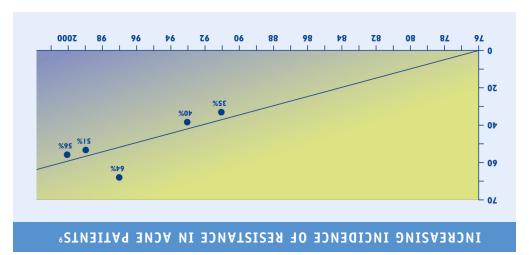
QUESTION 1. Answer: Comedones (can be both open and closed)

Ref page 1 "The diagnosis of acne rarely poses problems to the physician. However, one should be able to demonstrate the presence of both comedone; mid-facial comedones may pre-date inflammatory acne by several years. Subsequent lesions which must be confidently differentiated by the physician are both closed and open comedones (white and blackheads), papules, pustules, nodules and a variety of scars, atrophic, ice-pick and hypertrophic/keloid. It is the recognition of the 'lesion mix' that determines both the potential severity of the acne and the rationale for individually tailored treatment regimes."

QUESTION 2. Answer: Retinoids (synthetic Vitamin A derivatives)

Ref page 6 "Indicated for treatment of comedonal acne. Most effective against open comedones, but regular treatment may prevent progression of the microcomedone and consequently decrease subsequent acne severity."

QUESTION 3. Answer: 60-70% Ref page 8 "In vitro studies demonstrate alarming rates of resistance of C. acnes to antibiotics in common usage. Resistance to erythromycin has been recorded as high as 60%-70%. A UK systematic review suggests current rates of 50% resistance to topical macrolide antibiotics⁸ and a study in 1996 demonstrated 25% of all community C. acnes was resistant to one or more of the commonly used drugs."



QUESTION 4. Answer: These classes of antibiotics possess anti-inflammatory action

in addition to being anti-bacterial.

Ref page 6 "Topical Antibiotics

• Antimicrobial and ? anti-inflammatory as can still be effective in the presence of proven bacterial resistance"

Ref page 8 "There is clear evidence that the presence of resistance reduces efficacy, especially in the case of erythromycin but this, however, does not completely negate the clinical benefit of both topical and oral antibiotics. These preparations are also working in other ways and indeed the tetracycline class of antibiotics has established anti-inflammatory action, and is used in a wide range of dermatological conditions for this very reason. Antibiotic resistance patterns of C. acnes are not routinely available so a clinical judgement about lack of response must be made. It is important to note that most tetracycline resistant strains demonstrate cross resistance to doxycycline, and the same is true of erythromycin and clindamycin."