

ASSIGNMENT 18

Material Covered:
Units 8.7 and 8.8 of Module 8
of the IACLE Contact Lens Course

ASSIGNMENT 18

Read the questions carefully and record your answers on the answer sheet provided.

1. **Long-term (i.e. >12 months) use of therapeutic contact lenses is suitable for all of the following conditions, EXCEPT:**
 - a. Chemical burns of the cornea
 - b. Wound leakage
 - c. Bullous keratopathy
 - d. Mucous membrane pathology

2. **Which range of total lens diameters (TDs) would be MOST suitable for fitting a therapeutic contact lens following a corneal graft?**
 - a. 10.00 mm to 12.50 mm
 - b. 12.50 mm to 14.50 mm
 - c. 14.50 mm to 16.00 mm
 - d. 16.00 mm to 17.50 mm

3. **Which statement regarding entropion is INCORRECT?**
 - a. An abnormal positioning and 'turning in' of the eyelashes
 - b. Eyelashes contact the anterior eye and may abrade the cornea
 - c. Can be treated surgically
 - d. Bandage contact lens can be used to protect the cornea from irritation

4. **Tint fading in a hydrogel contact lens can occur by all of the following processes, EXCEPT:**
 - a. Normal wear and tear when a lens is tinted using a reactive dye
 - b. A reaction between the dye and tear proteins alters the dye density
 - c. Loss of dye from the contact lens by leaching
 - d. The action of chemicals from lens care products on the tint dye

5. **Which statement regarding neuroparalytic keratitis is INCORRECT?**
 - a. Caused by lesions of the trigeminal nerve (N5)
 - b. Corneal exposure leading to desiccation
 - c. Therapeutic hydrogel lenses should have a large total diameter (TD)
 - d. Frequent installation of artificial tears is required

6. **Which one of the following is LEAST likely to benefit from the use of opaque tinted hydrogel contact lenses?**
 - a. Cosmetic change of iris colour
 - b. Aniridia
 - c. Posterior polymorphous dystrophy
 - d. Corneal scar concealment

7. **Which statement regarding transparent contact lens tints is INCORRECT?**
 - a. Can enhance the eye's natural colour
 - b. Aids lens handling
 - c. May be used to alter the colour of light irides
 - d. A dark aqua tint may make the blue end of the spectrum difficult to see

8. **Which one of the following conditions would MOST likely cause corneal hypoaesthesia?**
 - a. Recurrent corneal erosion
 - b. Herpes simplex keratitis
 - c. Thygeson's superficial punctuate keratitis
 - d. Trichiasis

9. **All of the following are advantages of therapeutic contact lenses, EXCEPT:**
 - a. Tear film retention
 - b. Prevention of desiccation
 - c. Aid the healing process
 - d. Prevention of infection

10. **Which one of the following diagnostic procedures is used to confirm the presence of corneal wound leakage?**
 - a. Phenol red thread test (PRTT)
 - b. Peripheral keratometry
 - c. Seidel's test
 - d. Biomicroscopy with tangential illumination

11. **Which one of the following cases of recurrent corneal erosion is LEAST likely to respond well to bandage contact lens therapy?**
 - a. Due to a dystrophy involving the epithelial basement membrane
 - b. Secondary to fingernail trauma of the cornea
 - c. Due to a dystrophy involving Bowman's layer
 - d. Idiopathic cause

12. **Which statement regarding reactive dyeing of hydrogel lenses is INCORRECT?**
 - a. Dye is bonded chemically to the lens polymer
 - b. Tint is susceptible to bleaching by chlorine-based products
 - c. Applied after lens fabrication and hydration
 - d. Tint density is affected by the lens back vertex power

13. **Which one of the following conditions would be LEAST suited to use with a 55% water content hydrogel bandage contact lens?**
 - a. Exposure keratopathy
 - b. Thygeson's superficial punctuate keratitis
 - c. Bullous keratopathy
 - d. Filamentary keratitis

14. **All of the following are general indications for fitting therapeutic contact lenses, EXCEPT:**
- Promotion of wound healing
 - Sealing of corneal perforations
 - Concealment of a disfigurement
 - Mechanical protection of the cornea
15. **Which one of the following statements is CORRECT?**
- A relatively limited range of tints is available for hydrogel lenses
 - Tinted RGP lenses are less suited to occasional wear because some adaptation to lenses is required
 - Tinted RGP lenses are available in a wide range of colours
 - Hydrogel lenses are less suited to opaque tinting because of their flexibility
16. **In the case of filamentary keratitis, the chances of success with a bandage contact lens may be improved by:**
- Punctal occlusion
 - Selecting a thicker, low water lens
 - Fitting a lens that moves more than usual
 - A lateral tarsorrhaphy
17. **Which statement regarding iris colour is INCORRECT?**
- Irides darken with increasing age
 - The colour of a blue iris results from the absorption of the shorter wavelengths and the reflection of the longer wavelengths of light
 - Iris colour is not sex-linked
 - Brown eyes are inherited as an autosomal dominant trait
18. **Approximately what percentage of incident visible light is absorbed by a handling tint on a hydrogel lens?**
- 5%
 - 15%
 - 25%
 - 35%
19. **Which one of the following conditions is LEAST suitable for bandage contact lens fitting?**
- Entropion
 - Corneal lacerations
 - Trichiasis
 - Stromal melting
20. **Which statement regarding recurrent corneal erosions is INCORRECT?**
- Patient typically wakes up in the middle of the night with intense ocular pain
 - May be due to post-vitrectomy epithelial sloughing in diabetic patients
 - Requires frequent lubrication with hypotonic saline drops and ointment at bedtime
 - A bandage contact lens can be used to protect the epithelium and promote healing