MCQ's: Phototherapy

1. Effectiveness of phototherapy is determined by
   a) General condition of baby-Healthy/sick
   b) Initial level of Total serum bilirubin level
   c) Initial level of conjugated serum bilirubin level
   d) Age of the baby

2. If only white light is available for phototherapy then what to do
   a) Use only white light for phototherapy
   b) Use blue plastic perspex in front of white light
   c) No use of using white light only
   d) Wait till availability of blue light

3. Bronze baby syndrome results due to
   a) Phototherapy given in case of conjugated hyperbilirubinemia
   b) Phototherapy given in case of sepsis
   c) Phototherapy given in case of prematurity
   d) Phototherapy given for a long period

4. Bilirubin level is not falling, all may be the cause, EXCEPT
   a) Low irradiance of phototherapy unit
   b) Overhydrated baby
   c) Less body surface of baby is exposed
   d) Constipated baby

5. Minimum irradiance required for effective phototherapy
   a) 4 \( \mu \text{w/cm}^2 / \text{nm} \)
   b) 6-8 \( \mu \text{w/cm}^2 / \text{nm} \)
   c) 10-12 \( \mu \text{w/cm}^2 / \text{nm} \)
   d) >15 \( \mu \text{w/cm}^2 / \text{nm} \)

6. Which light is most effective for phototherapy
   a) Blue white light
   b) Blue light
   c) Blue green light
   d) Green white light

7. For babies below 2 kg under risk of hypothermia, which is the best approach
   a) Keep phototherapy unit under warmer
   b) Cover phototherapy unit by a blanket
c) Provide phototherapy directly over the incubator
d) Use intermittent phototherapy

8. Minimum distance between compact fluorescent bulb phototherapy unit and the baby
   a) 5 cm
   b) 10 cm
   c) 15 cm
   d) 20 cm

9. Major mechanism for phototherapy induced decline in total serum bilirubin
   a) Configurational isomerization
   b) Structural isomerization
   c) Photo-oxidation
   d) All are equally effective

10. Which is true about discontinuation of phototherapy?
    a) When TSB level falls below the level of starting phototherapy
    b) When TSB level falls below the arbitrary level of 15 mg%
    c) When TSB level falls below the cut off for limit of phototherapy based on age, gestation and risk factors on AAP chart
    d) All are true