Topic: Treatment Planning

- 1. What is the equivalent square (EqSq) of a rectangular field measuring 8cm by 18cm?
- A. 10.20 cm
- B. 10.93 cm
- C. 11.07 cm
- D. 11.68 cm

Answer:

C. We use the equivalent square formula to solve this problem. The general formula is EqSq = $(2 \times (Dimension 1 \times Dimension 2)) / (Dimension 1 + Dimension 2)$. The calculation is as follows: $(2 \times (8cm \times 18cm)) / (8cm + 18cm) = 11.07 cm$.

Topic: Treatment

- 2. The Sanford technique is a method used for:?
- A. Prostate irradiation
- B. Total skin irradiation
- C. Breast irradiation
- D. Total lung irradiation

Answer:

B. The Sanford technique is a method used for total skin irradiation. Technical considerations are discussed in the AAPM (American Association of Physicists in Medicine) report no 23.

Topic: Treatment

- 3. Daily safety checks on the linear accelerator include all of the following Except: ?
- A. Laser localization
- B. Audio video function
- C. Beam ON indication
- D. Vault shielding

Answer:

D. Daily checks involve checks on a variety of safety features including vault door interlocks. The specific daily requirements are covered in the AAPM (American Association of Physicists in Medicine) report no. 142, Table 1.