Topic: Treatment Planning

1. What is the equivalent square (EqSq) of a rectangular field measuring 8 cm by 18 cm ?
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 $=(2 \mathrm{x}$ (Dimension $1 \times$ Dimension 2)) / (Dimension $1+$ Dimension 2). The calculation is as follows: $(2 \times(8 \mathrm{~cm} x$ $18 \mathrm{~cm})$ ) $/(8 \mathrm{~cm}+18 \mathrm{~cm})=11.07 \mathrm{~cm}$.

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.

