Chapter 12 Treatment Planning – Combination of Beams

Radiation Dosimetry I

Text: H.E Johns and J.R. Cunningham, The physics of radiology, 4th ed. http://www.utoledo.edu/med/depts/radither

Outline

- · Opposing pairs of beams
- Combination of opposing pairs
- · Angled fields and wedge pairs
- Three-field approaches
- Rotational therapy

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Example 4 • A patient is planned for equally weighted, parallelopposed 6 MV photon fields treating the mediastinum, AP thickness 22 cm. If the beam energy is changed to 18 MV photons, all of the following would decrease *except*: A. MU B. Skin dose C Depth of maximum tissue dose D. Percent variation in dose across the treated volume

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Summary • Opposing pairs of beams • Combination of opposing pairs • Angled fields and wedge pairs • Three-field approaches • Rotational therapy

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