

Craniospinal Irradiation (CSI) Assignment

Before beginning this assignment, review the Supine CSI PowerPoint presentation found in D2L.

For this assignment you will be describing a typical CSI setup in either the prone or supine position. Make sure I know which setup you are describing as you answer the questions below.

You may use your clinical preceptor, discussions with classmates and textbook resources to provide the following information (Note: You may provide a textbook diagram or hand drawings are acceptable).

1) If the patient were positioned prone, a board is usually placed under the chest to build up the lower torso. What does this accomplish? (5 pts.)

2) How do you match the spine and head ports for a craniospinal setup? BE SPECIFIC. Give me the formulas used to determine any angles and give an example of using the formula(s). Provide a diagram or drawing (20 points)

3) If you wanted to remove any divergence from the eyes in the cranial port, how would this be accomplished? Why would you do this? Show a formula and how it can be used. Provide a diagram or drawing. (10 points)

4) In your own words describe the setup for a CSI adult patient (specify prone or supine) where 2 spine ports must be matched that extend to the bottom of S-2.

Pretend you are telling the therapist everything that is needed during the CT simulation.

(How the patient should be positioned. Do not forget to include all devices used, head position, chin position, arms...). (15 points)

For treatment planning, approximately where will you place the isocenter for each field for the patient above, will the isocenters be moved? Why or why not? What are the approximate field borders? (25 points)

Pretend that you must give the therapist a detailed description for treatment (feathering the gaps) for the patient above.

How will the fields be feathered during treatment? (25 points)