

Phase 1 Physics

RANZCR Part 1 Course

St Vincent's Hospital,
Paddington NSW

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RANZCR

Part 1 Physics Examination Panel

Lecture Outline

- Phase 1 - why?
- Phase 1 - how?
- Phase 1 - what?

•Phase 1 - why?

• Syllabus V Curriculum

- NOT learning
- NOT teaching
- NOT part of our training

• Adult Education

- NOT our responsibility
- NOT spoon feeding

• Beware

- Warm fuzzies
- New approach

•Phase 1 - how?

• Curriculum = Syllabus + directed activities

- Same syllabus as before

- Different packaging

- Different focus

- Opportunity

 - More hands on

 - New skills

- Danger

 - More hands on

 - New skills

- New skills

 - Learn how to use planning system

 - TVs & OARs; 3DCRT & IMRT

•Phase 1 - what?

• CURRICULUM

[Planning exercise] You are attempting to treat an immobile pelvic object (a cylinder with a 8.0cm radius and 10.0cm length in the central pelvis centred on the prostate). After generating the object, define the PTV and then describe the exact field size needed to provide adequate dose to the target. Explain in detail the disparity between target size and field size in all dimensions. Produce one plan that represents a SAD technique and another for a SSD technique. Explain which is more useful.

• EXPECTATION

- Detailed and accurate description of physical penumbra.
- Must use the Planning System to demonstrate the size of the penumbra
- (TPS image required), distance between 95% isodose and target is to be minimized
- understands the use of 95% isodose covering target area
- describes the different penumbral width at the sup/inf margins
- defines the PTV by auto-expansion (i.e., object vol = PTV vol)
- Definition of SAD & SSD technique, appreciation of use implications for delivering treatment.