# Video transcript: AHP 360 video therapeutic radiography scene three

**SPEAKERS:** Joanne, Advanced Practitioner Therapeutic Radiographer
and Thomas, Clinical Scientist, Oncology Physics

**>>THOMAS:** Okay. Hi Jo.

**>>JOANNE:** Hi Tommy. So, I was looking for some advice on this pelvis plan I'm doing. Um, you can see here the patient has a titanium prosthetic hip.

**>>THOMAS:** Mm-hmm.

**>>JOANNE:** Um, so I've created a plan, um, trying to avoid the radiation beam going in through the hip.

**>>THOMAS:** Yeah.

**>>JOANNE:** Um, I'll show you what I've done here with the beams eye view.

**>>THOMAS:** Okay.

**>>JOANNE:** So, the radiation's on and then it stops.

**>>THOMAS:** Yeah.

**>>JOANNE:** And it's passing around the hip.

**>>THOMAS:** That looks good.

**>>JOANNE:** Then it starts again.

**>>THOMAS:** Okay. Mm-hmm.

**>>JOANNE:** Do you think that's okay?

**>>THOMAS:** Yeah, that, that looks reasonable. I'll just, uh, have a quick look at your dose distribution.

**>>JOANNE:** Great, thank you.

**>>THOMAS:** So, the problem with these plans is when we have these metal prosthesis, our CT scanners don't, uh, scan 6 32 bit images.

**>>JOANNE:** Okay.

**>>THOMAS:** Which would give us more dynamic range.

**>>JOANNE:** Right.

**>>THOMAS:** And we'd be able to model these high-density structures more accurately, but we can't do that at the moment. So, we have limitations. So, rather than trying to do anything fancy, we take a pragmatic approach, and we just avoid putting a beam through these structures altogether.

So, if I just have a quick look at your dose, um, that looks pretty good. And I'll just look at the low dose just to see, make sure you're avoiding the prosthesis.

You can see the 40%, it's just sort of shaving past it, but we know there's no beam radiation coming through from this side. So, that looks acceptable and we, we'd be happy to accept that, and you'd review that with your oncologist to make sure they're happy. But that looks okay to me.

**>>JOANNE:** Great. Thanks Very much, Tommy.

**>>THOMAS:** Thanks Jo.

**>>JOANNE:** Appreciate that.

**>>THOMAS:** No problem.