

GHG teleconference Minutes : Proton trial QA

Tuesday 27th November, 2000-2100 GMT

Attendees: Paige Taylor (Chair, PL), Jonny Lee (JLee), Joerg Lehman (JLeh), Elizabeth Miles (EM), Catharine Clark (CCI), Coreen Corning (CCo), Enrico Clementel, Ying Xiao (YX), Walter Bosch (WB)

Apologies:

Item	Agenda	Action
1.	Apologies	
2.	Previous Minutes accepted	
3.	<p>Items from previous minutes</p> <p>Phantom materials CCI – NPL is looking into water and bone equivalent phantom materials. Hannah Cook (PhD student) and Ana Lorenzo working on this.</p> <p>Working groups EM – possible candidate for radiographer in RTTQA (Yat Tsang) who will be spending time at the Christie. EM to ask if he would like to join the group.</p>	EM
4.	<p>Review of Coggle Proton QA map</p> <p>Plan assessment</p> <ul style="list-style-type: none"> - Plan robustness – IROC do not have a standard to test robustness. - Dealing with defined PTV coverage in protocols which were written for IMRT is an issue. IROC starting to deal with this, as is RTTQA. Proton plans can robustly cover the CTV under reasonable uncertainties, but not meet the protocol PTV coverage, so technically a protocol violation. - YX; IROC we ask centres to create an isotropic PTV for reporting purposes. - Even with similar equipment, centres may use different margins due to spot size differences. Centres with passive scatter may have beam specific PTV margins (lateral margins and range-plus-margin in beam direction) - Conclusion: in trials which accept patients from a wide range of proton centres and techniques, we can be quite relaxed about what plans we will accept, but make sure that centres are creating reasonable plans consistent with their own declared approach. <p>Walter and Joerg will also join the planning review group.</p> <p>Dosimetry</p> <ul style="list-style-type: none"> - Stephen Kry will join the dosimetry group - CCI – very important to get dosimetry and audit set up, within or outside of trials. MedAustron are putting together an audit under EPTN, using alanine dosimetry; been to Delft and plans for Aarhus and Groningen. Hopefully 	

	<p>they will present at ESTRO. Antonio Carlino is the physicist leading the MedAustron audit.</p> <ul style="list-style-type: none"> - PT - Does GHG have someone from Medaustron. CCI to ask medaustron to join group to give a report. Hugo Palmans, Antonio Carlino – CCI to contact these. <p>JL – centres re-normalise plan MU based on QA measurements. Will not be done at the Christie, but is this standard? PT – sometimes done for lung, shallow treatments. Generally not done now. Moving away from pencil beam calculations, but impacts participation where centres with scattered beams do not have the option of a commercial TPS with a more advanced algorithm (Monte Carlo). Newer protocols specify Monte Carlo, but no checks after pre-trial QA that centres actually comply. WB: in the current DICOM generation, not specifying enough to check</p> <p>Patient Treatment QA PT – starting to review IGRT; image quality – can you see what you need to. Also look at match quality. EM – in RTTQA have done some IGRT work for adaptive bladder – education and training programme, a marked assessment – those that pass can do the matching in the trial. CBCTs are collected for a proportion of patients and the match and appropriateness of plan selection is checked. Using Eclipse previously, and now Velocity for review. EM to provide further details to PT.</p> <p>Japanese have money to develop up to two phantoms and travel internationally to carry out audit. Wide remit, funding mainly for development. Deformable phantom was identified as a possibility. Ideas to Mitsuhero Nakamura. JCOG already have a liver phantom.</p> <p>Upcoming meetings of interest</p> <ul style="list-style-type: none"> - PTCOG June 2019: abstracts due January 6. PT to draft an abstract on GHG Proton Group. Supported by all. Opportunity to raise the profile of the GHG and the potential for harmonisation of proton work. - IDOS June 2019, Vienna: abstracts due December 15. CC and SK will be attending – to report back. Run by the IAEA dosimetry group. - ESTRO: abstract deadline passed – anyone need information from group members for their presentations? EM – giving a talk to RTTs “quality in image guidance”, CC speaking in interdisciplinary session “overview of QA for proton clinical trials”. IROC and RTTQA have not submitted anything about proton QA. <p>Face to face at ESTRO – Friday meeting looking likely, need to arrange venue. EC to help with booking meeting room outside the venue. Angelo Monti familiar with Milan.</p> <p>Next meeting Discussion of PTCOG submission over e-mail Creen to send out doodle poll for next teleconference in Jan/Feb</p>	<p>CCI</p> <p>EM/PT</p> <p>All</p> <p>PT</p> <p>EM</p> <p>CCo</p>
--	--	---

Working groups

1. Dosimetry/Equipment QA

Jess Lye, Catharine Clark, Jonny Lee, Paige Taylor, Stephen Kry

2. Plan assessment

Ying Xiao, Enrico Clementel, Jonny Lee, Paige Taylor, Walter Bosch, Joerg Lehman

3. Patient positioning, immobilisation, IGRT and on-set review

Ying Xiao, Jonny Lee, Paige Taylor, Yat Tsang?