AbstractID:9934Title :TG113:I mprovingTre atmentConsiste ncyandDataQualit y for ClinicalTrials

ThegoalofAAPM Ta skGroup113istoprovide guidancetophysicists ,QAcen ters,and othersinvolvedinclinicalt rialsonme thodstoimprove theconsistency andqualityof datageneratedfortrialsinvolving externalbe amradiothe rapy.

Tod ate, there are no univer sally agreed upons tandards for the physics practic esrelated to clinical trials. I naddition, astrest eatment techniques become more sophisticated, it is even more challenging to comprehensively maintain consistency a cross multiple institutions. Since hundreds of institutions may be involved in clinical trials, it is critical to review the entire treatment planning and delivery process and to identify a reaswhere improvements can be made to ensure that high quality and consistent data are acquired from all institutions treatments on clinical trials.

Thispresentationwillf ocusonf actorsthatimpactda taqualityf or thetreatmentplanning anddelive ryprocess. Ina ddition, me thodsto helpindividual physicists improve the consistency of clinical tri alswill be discussed. The scope of the task group includes image acquisition for volume de finition, treatment planning sy stems, patient lo calization, treatment guidance and de livery, and credential in gfor clinical trials.

EducationalObjecti ves:

- 1. Todescribethego alsof TG#113P hysicsPrac ticeStandards forClinicalTrial s
- 2. Tohighli ght factorstha tdire ctlyimpactclinicaltrialsthatinvolvel MRTand IGRT