

AbstractID:9736Title :Designing andImplementingClinicalStudiesinvolvingNew
Technology

Manyofthemostimportantadvancesinmodernradiotherapyhavebeendeveloped,
implemented,tested,and/orperfectedthroughin-houseclinicalresearchwork.Studyof
thepossiblebenefitsofnewtechnologyandnewtechniquesfortreatmentplanningand
deliveryis crucial ifwe aretolearnwhenandhowtoeffectivelyusethe capabilities.
Thispresentationwill useexperiencedesigningclinical studies of normal tissue
toxicity,tumordoseescalation,use of functional imaging, andother ongoing clinical
effortstoillustrateboththe challengesinvolvedinclinicalstudiesaswellas someofthe
methodsthat haveprovedto be helpfulto our research efforts.Performing clinical
studieswhichhaveappropriategoals,aredesignedtoincludeadequateclinicalsupport,
andwhicheventuallyresultin clinicallydocumentedimprovementsforourpatients can
beaveryvaluableandsatisfyingcontributiontoimprovedpatientcare.

LearningObjectives:

- 1.Toillustrateclinicalstudydesigntechniques
- 2.Todiscussomeofthemethodswichhelpmakeclinicalstudiesviableinabusy
clinic
- 3.Tohighlightsomeofthechallengesassociatedwithclinicalresearchefforts.