AbstractID:9854Title :Re quirementsforAddre ssingRespiratoryMotioninCoo perative GroupClini calTrials( SAMSession)

Requirementsforadd ressingrespiratorymotionincooperative groupclinicaltrials GeoffreyS.Ibbott,Ph.D.
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Inmid -2006,theNationalC ancerInstitute(NCI)publishedupda ted guidelinesfor the useof in tensity-modulatedr adiationthe rapy(IMRT)onc linicaltrials,s pecificallywhen thetarg etvolum einc ludedt hethorac icregionorothera reasinwhichres piratorymotion couldhaveasi gnificanteffe ct.Ina dditiontorequiringheteroge neityc orrections, the NCInowrequires thattheclinica lprotocola ddresstheloc alizationandimmobilizationof boththepatientandthetum or. Imagingmus tbepe rformedinama nnerthat providesa representationofthetargetvolume withoutmotiona rtifact.Proceduresmustbe defined todocu mentreproduc ibledailypositionofthepa tientandtarg et.S omef ormof credentialingisrequired.

## Learningobjectives:

- 1. Reviewt hest ructure supportingcoopera tivegroupclinicaltrials in the US.
- 2.B ecomefam iliarwiththeNCIguidel inesfortheus eofIMRTinclinicaltrial s
- 3. Learn about the effects of re spiratory motion during thoracic reatments.
- 4.U nderstand theinforma tiond erivedfrom the RPC's moving anthropomorphic phantoms.

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