AbstractID:9858Title :Acc eptanceT esting,Commissioning,DataEntr y,andQAf orB rachytherapy TreatmentPlanning System s

Clinical med ical physicists are compelled to concern with accuracy of brachytherapy treatment planning systems as the basis for treatment delivery. The role of the medical physicist in brachytherapy is skey —close interactions with physicians are needed, and often a radiation therapist may not be present. In comparison to external beam, dose gradients are steeper, record-and-verifyis not typically used, and treatment fraction dose is usually higher. Thus, the importance of our input. The role of brachytherapy for cancert reatment has expanded in recent years. Many of these new modalities push the limits of the conventional brachytherapy treatment planning dose calculation algorithm. A solid understanding of these systems and the irrelinical role is crucial towards en suring success. This tenet holds true for both the new round alities and the more established brachytherapy procedures.

This continuingeducation lecturew ill providea quasi-chronological overviewo ft heresou rcesand ac tionsreq uiredofa clinicalme dicalphysicist. Thefollowing EducationalObje ctives willbeco vered:

- 1. AcceptanceTesting andCommission ingre commendations
- 2.Data Entry ofbrachytherapydosimetryparam etersbase don AAP M-,ma nufacturer-,andu ser-provideddata
- 3.Q ualityAssurance,includingstartu pa ndon -going efforts,toward sen suringasafea nd accurateenv ironment