AbstractID:9756T itle:Qua ntitationin Nuclearmedicine

QuantitationinNucle arM edicine

Thequantification of functionandactivity playsanimportantrole clinicallyinnuclearm edicine. Examplesincludethe analysisoft racerkineticstoquantify dynamicfunction, the determination of the fraction of the cardiac blood poolejec tedduring contraction, the comparison of regional localization of uptake within the art to that of adata baseto facilitate the recognition of perfusion defects in cardiac imaging, and the localization of F-18 labeled FDG in potential lesions. Despite the present clinical utility of quantification and are the subject to urrent and future investigations.

Thislecturewillprovide a nint roduction to the application of quantification within nuclear medicine. It will point outsome current deficiencies, and potential research directions aime dat overcoming them.

EducationalObjective s:

- 1.Understand they arioust ypes of quantific ation employed in nuclearmedic in e
- 2. Recognizesome of the limitation storobus tapp lication of quantific ation clinic ally
- 3. Appreciate some oftherr oposedmethodstoove rcometheselimita tions