

**AbstractID: 2565 Title: Computed Tomography - What Systems Deliver vs. What Clinicians Need**

Computed tomography is the most important modality for many patients, since CT is the first and only examination they have before therapy or for followup. As the technology evolves, we observe changes the range of CT applications and its clinical utilization. We are in the midst of rapid expansion of clinical CT imaging use, due to increased speed and coverage, necessitating an evaluation of its current and potential future contributions. The needs of clinical medicine not yet met by CT, but potentially achievable in screening, diagnosis, therapy and followup are valid goals for technology developers. Despite intrinsic limitations due to use of ionizing radiation and substantial fixed costs, CT has room for growth and its technological evolution is not near the end.