AAPM Task Group 58 was created to provide materials to help the medical physicist and clinical colleagues succeed with the clinical implementation of electronic portal imaging devices (EPIDs) in Radiation Oncology. This complex technology has matured over the past decade and is capable of being integrated into routine practice. The task group was charged with providing sufficient information to allow the users to overcome implementation difficulties and put EPIDs into routine clinical practice. This presentation will review Task Group responses to its charges, to provide: comprehensive information about the physics and technology of currently available EPID systems; a detailed discussion of the steps required for successful clinical implementation, based on accumulated experience; a review of software tools available and clinical use protocols to enhance EPID utilization; and specific quality assurance requirements for initial and continuing clinical use of the systems. Technology updates that have occurred since TG58 will also be reviewed.

Educational Objectives
1. Understand the Fundamentals of Current Electronic Portal Imaging Devices
2. Understand Methodology and Protocols for Clinical Implementation of EPID
3. Understand Quality Assurance of EPID and its Process