Purpose: To present various manufactured CT scanners with respect to the CT accreditation process and how the challenges of the process can be overcome.

The purpose of the accreditation program is to set quality standards for practices and help them continuously improve upon the quality of care they give to their patients. Designed to be educational in nature, the ACR Accreditation Programs evaluate qualifications of personnel, equipment performance, effectiveness of quality control measures, and quality of clinical images. It is believed that these are primary factors that affect the quality of clinical images and ultimately the quality of patient care.

The ACR CT accreditation program was established in 2002. The development of CT technology since then has been rapid and diverse. This has posed many challenges to the medical physicist in obtaining accreditation as well as in the implementation of an ongoing QC program for the vast array of scanners. A brief overview of the various type scanners with an emphasis on equipment specific challenges will be presented to facilitate this process.