AbstractID: 7194 Title: Quality Assurance of Ultrasound Imagers: Procedures, Expectations, and Philosophies

This session details procedures for performing common ultrasound scanner quality assurance (QA) measurements, including performance tests for prostate scanners and ACR accreditation. A discussion and critique of each test, as an indicator of the clinical performance of the scanner, will be presented. Sample data from a large number of clinical scanners will show representative values and measurement variability.

Suggestions for establishing a effective QA program will also be presented, including items such as motivation, justification, cost consideration, phantom selection and test prioritization.

Educational Objectives
At the end of this session, the attendee will
1. be familiar with the techniques and procedures for performing common ultrasound scanner performance tests.
2. be aware of what information can be gleaned from ultrasound QA data.
3. have a reasonable idea of the magnitude of measurement errors associated with various ultrasound QA data.
4. will learn which tests provide the most important feedback as to the performance of a scanner in the clinical environment.