

Physics successes and hopes in QC, performance evaluation and education

- 1. Successes in US system QC in imaging facilities
 - 1. Most important have been detection of design and company servicing failures. 2. Need regional test facilities

- 2. Hopes 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will make its performance very cost effective 1. Simplified and better QC will be the set of the set o
 - 2. Can be done even on 2D arrays, with necessary support of system suppliers
- 3. Education More complex than x-ray and CT
- 4. QC and Perf. Eval., not all of medical physics also development of new systems, applications, quantification

QC and Perf Eval

- State of the art performance evaluation: IEC 61391, Ultrasonics 1. 61391-1 2006 Pulse-echo scanners Part 1: Techniques for calibrating spatial

- 61391-1 2006 Pulse-echo scanners Part 1: Techniques for calibrating spatial measurement systems and measurement of system point spread function response
 61391-2 2009 Pulse-echo scanners Part 2: Measurement of maximum depth of penetration and local dynamic range
 61391-3 201? CD for TS, Pulse-echo scanners Part 3: Low-echo sphere phantoms and methods for performance testing of gray-scale medical ultrasound scanners applicable to a broad range of transducer types

QC IEC 62736: Committee Draft, Ultrasonics – Pulse-Echo Scanners – Quality Control of Diagnostic Medical Ultrasound Systems ...

All could use simplified, unified documents.