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DICOM Correction Item

Correction Number		CP-399
Log Summary: Calibration of Color Displays for Grayscale		
Type of Modification	Name of Standard	
Correct Value	PS 3.14 2003	
Rationale for Correction: This CP clarifies that color monitors can be calibrated using the GSDF to display gray levels as P-Values.		
Sections of documents affected Part 3.14		
Correction Wording:		

4 3.12 DICOM GRAYSCALE STANDARD DISPLAY FUNCTION

1. Scope and Field of Application

6 PS 3.14 specifies a standardized Display Function for display of grayscale images. It
8 provides examples of methods for measuring the Characteristic Curve of a particular Display
10 System for the purpose of either altering the Display System to match the Grayscale
12 Standard Display Function, or for measuring the conformance of a Display System to the
Grayscale Standard Display Function. Display Systems include such things as monitors with
their associated driving electronics and printers producing films which are placed on light-
boxes or alternators.

14 PS 3.14 is neither a performance nor an image display standard. PS 3.14 does not define
16 which Luminance and/or Luminance Range or optical density range an image presentation
device must provide. PS 3.14 does not define how the particular picture element values in a
specific imaging modality are to be presented.

18 PS 3.14 does not specify functions for display of color images, as the specified function is
limited to the display of grayscale images. **Color Display Systems may be calibrated to the
Grayscale Standard Display Function for the purpose of displaying grayscale images.**