



The Joint Commission Standards for Diagnostic Imaging Is Your Radiology Department Ready?

July 1, 2015:

Revised Joint Commission Standards for Diagnostic Imaging

On July 1, 2015, changes to The Joint Commission (TJC) standards for Diagnostic Imaging became effective. Bayer offers a comprehensive solution that can help customers comply with the standards which the Joint Commission indicates address overall patient safety, oversight of imaging services, staff competency, radiation safety procedures equipment and quality control.

The standards apply to accredited hospitals, critical access hospitals, and ambulatory health care organizations that provide diagnostic imaging services, including ambulatory organizations that have achieved Advanced Diagnostic Imaging certification.

The Joint Commission Standards for Diagnostic Imaging addresses the following key areas:

- Documentation of the dose
- Establish DRL for imaging protocols
- Review outliers and compare to external benchmarks
- Establish and maintain protocols

Radimetrics™ Enterprise Platform provides tools that can help customers meet The Joint Commission's new standards with regard to Radiation Dose.

Establishing Protocols

The Joint Commission has introduced two standards that specifically address various elements related to CT Imaging Protocols.

Standard PC.01.03.01 A25: The hospital/ambulatory center establishes or adopts diagnostic CT imaging protocols based on current standards of practice, which address key criteria including clinical indication, contrast administration, age, patient size and body habitus, and the expected radiation dose index range.

Standard PC.01.03.01 A26: Diagnostic computed tomography (CT) imaging protocols are reviewed and kept current with input from an interpreting radiologist, medical physicist, and lead imaging technologist to adhere to current standards of practice and account for changes in CT imaging equipment.

The Bayer Solution: Bayer offers tools that can help you manage radiation dose and contrast dose protocols and which can address key criteria in meeting TJC standards.

Radimetrics™ Enterprise Platform allows you to include multiple radiation Dose Reference Levels (DRLs) with imaging protocols:

- DRL can be filtered to specific patient groups based on age as well as gender, height/weight, and diameter
- DRL can be based on different radiation dose values, including DLP, SSDE, & ICRP 103
- DRL can be set for a value or based on the percentile of current enterprise data

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Radimetrics™
Enterprise Platform

Radimetrics™ Enterprise Platform has a Protocol Management Tool which offers user groups, tracking revisions and email alerts for protocol review. Scanner protocols can be imported into the platform.



Certepra® P3T® 2.0 functionality can help calculate contrast injection protocols individualized to each patient. Certepra® P3T® software uses patient weight and contrast concentration to design a custom injection protocol including:

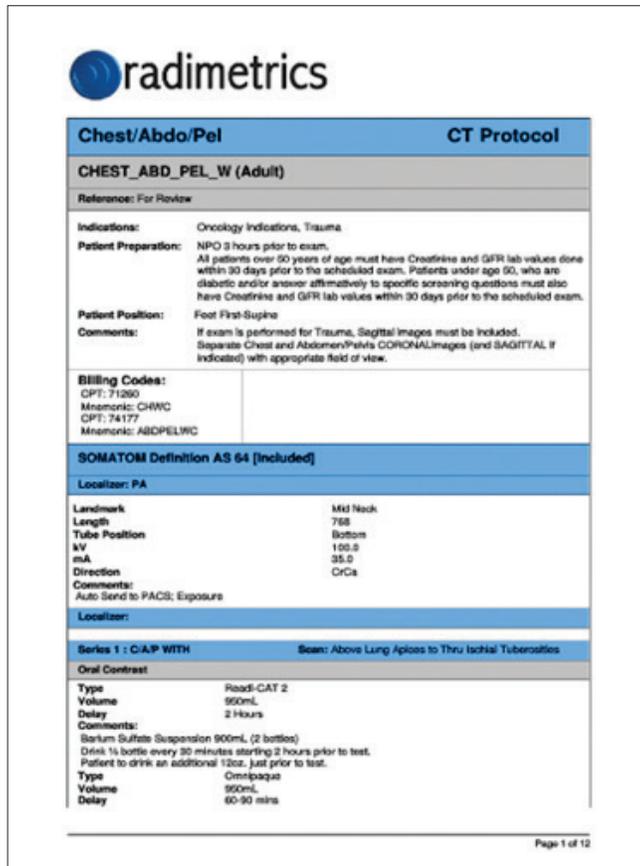
- Volume of contrast
- Flow rate
- Ratio of iodine and saline
- Scan delay

Image comparison with the same patient
 – Patient weight 120 lbs. – Contrast Concentration 350

Standard Protocol			P3T® Abdomen		
Piston	Flow Rate	Volume	Piston	Flow Rate	Volume
A	2.0 mL/s	30 mL	A	1.7 mL/s	30 mL
B	2.0 mL/s	20 mL	B	1.7 mL/s	20 mL
Pause 5 minutes					
A	3.0 mL/s	100 mL	A	1.7 mL/s	57 mL
B	3.0 mL/s	40 mL	B	1.7 mL/s	40 mL

Weight factor = 0.41g/Kg

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Certepra® P3T® protocols can be designed to reflect radiologist preference for dosing by organ, specific disease states, and personalized to each patient.

Identify Outliers and Compare to External Benchmarks

Standard PI.02.01.01 A6: The hospital/ambulatory center reviews and analyzes incidents where the radiation dose index from diagnostic CT examinations exceeded expected dose index ranges identified in imaging protocols. These incidents are then compared to external benchmarks.

The Bayer Solution: Radimetrics™ Enterprise Platform allows users to review, analyze and compare data on patient CT radiation doses:

- Set multiple, customized dose reference levels
- Compare dose with external benchmarks like QuiRCC, NCRP, ACR

Patient information listed on the 'GUI's' are fictitious examples only and do not contain any actual patient data.



Bayer

Pharmaceuticals Division

Bayer HealthCare LLC
100 Bayer Boulevard
P.O. Box 915
Whippany, NJ 07981
www.radiologysolutions.bayer.com



Bayer Medical Care Inc.
1 Bayer Drive
Indianola, PA 15051 USA
Customer Service/Orders
1-800-633-7231
Customer Service Fax
1-412-767-4120

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