

CR READER TESTS

Test 18: Detector dose indicator monitoring (exposure index monitoring)

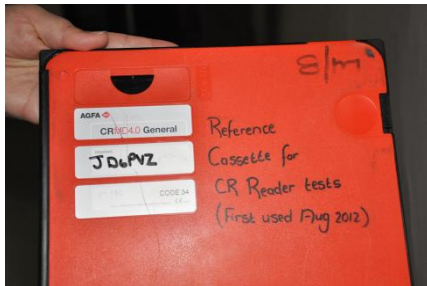
On acceptance & 3 monthly

PURPOSE: To monitor system sensitivity, and consistency of relationship between cassette exposure and detector dose indicator.

		SITE: _____			
		TEST 18: DETECTOR DOSE INDICATOR- RM _____		Licence No: _____	
DATE:	NAME:	EI:	PASS:	FAIL:	COMMENT:

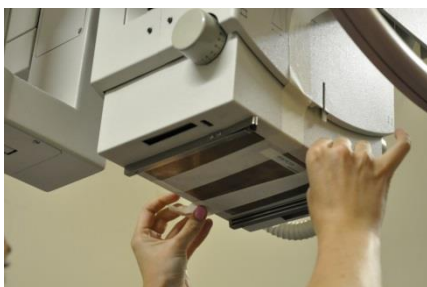
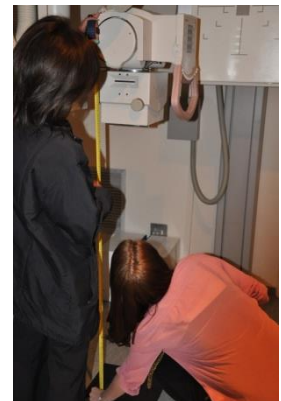
EQUIPMENT: Tape measure, Adhesive tape, 1 mm Copper filtration (>10 x 10 cm)

METHOD:



Place an erased 24x30cm reference cassette (the same cassette should be used every time this test is performed)

at a distance of 1.3 meter from the focus and centered in the X-ray beam.



Place the 1.5 mm Cu filtration in the beam.



Set an exposure as follows: 75kVp, 12.5mAs, small focus. The mAs should also be manually set.



Collimate to cassette size.

Read the plate immediately.
Use the following parameters:

LgM or EI- Agfa

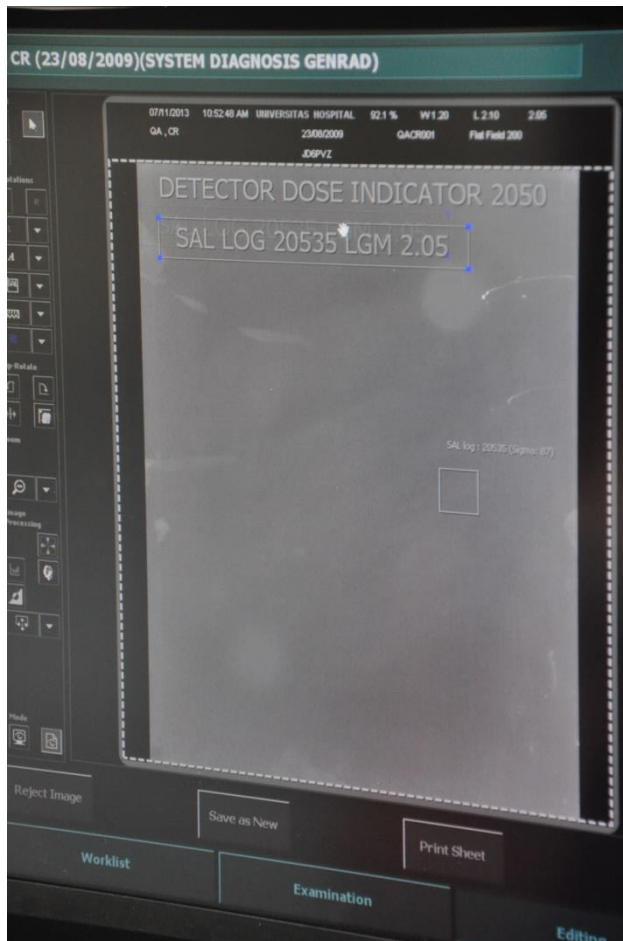
EI- Kodak

S- Fuji

Agfa	S = 200 System diagnosis/flat field processing
Kodak	Pattern Mode
Fuji	Semi-auto, L = 1 or 2

TOLERANCE:

This detector dose indicator should be compared to a baseline value obtained under the same conditions (same x-ray tube, distance, kV, filtration, mAs, reference cassette and collimation).



← Note

Agfa: Lg M value should lay between (Baseline +0.08) and (Baseline-0.10)

Kodak: EI should lie between (Baseline +80) and (Baseline-100)

Fuji: S value should lie between (Baseline+25%) and (Baseline -17%)

SUSPENSION LEVEL:

Baseline \pm 20%