

Test 39: Fluorography Dose rate reproducibility under automatic exposure control

On acceptance & 3 monthly

		SITE: _____						
		TEST 39: DOSE RATE REPRODUCIBILITY UNDER AEC - RM _____						
DATE	NAME	DOSE RATE	DOSE RATE	DOSE RATE	AVERAGE	PASS	FAIL	CORRECTIVE ACTION

Ensure that exact condition of screening can be reproduced at three-monthly intervals.

PROCEDURE

Place a 1,5mm Copper filter in the center of the image intensifier.

OR use a **water container filled with water** –approximately 30 cm x 30cm wide and 20cm thick (use the same equipment consistently!)

Select a specific program on your C-arm.

Open the collimators fully.

Screen for 5s.

Record the exposure factors.

The kV and mAs should be similar to the previous readings.

Wait one minute.

Repeat for all the II sizes and the different programs – thus field sizes and dose rate settings.

Check the readings against the baseline allowing $\pm 25\%$ error.



C-Arm test checklist

Test 1

Indicators, mechanical and safety checks and warm-up

Test 2

Gonad shields, lead aprons and thyroid shields

Test 3

Appropriate technique chart displayed.

Make sure that Tests 79-84, 123-131, 137-139 are performed by the IB.

C-Arm x-ray beam centered on the II?

PROCEDURE

Use 8 five cent coins and place them 7.5cm from the centre of the II cover.

Screen and check on the TV monitor that the coins are visible and in place.

Repeat in magnification mode.

REMEDIATION

If they are not seen on one side, the field could be off centre.

A technician must adjust the tube.