









Table 1: Type of X-ray equipment and film processors at the hospitals

Names	X-ray Equipments	Installation Year	Processor	Installation Year
Hospital 1	Philips Model RO 1230 Rotarix	1992	Kodak x-oMAT Model M6B	2002
Hospital 2	Shimadzu Rad/Flo, Model Circlex	1986	Kodak x-oMAT, Model: 5000 RA	2007
Hospital 3	Siemens, Model 0946004G444G	1982	Fujifilm, Model: FPM3800AD	2004
Hospital 4	Shimadzu, Model Radiotex	2005	Kodak x-oMAT, Model 000 RA	2007

Table 2: Results of intercomparison dose measurements of the TLD system

Sets	Mean calculated dose (mGy)	STD dev. of sets	Ref dose (mGy)	Avg % dev.	Corrected measured values (mGy)
Set 1	0.18	0.04	0.20	8	0.20
Set 2	0.43	0.04	0.50	13	0.50
Set 3	0.86	0.03	1.00	14	1.00
Set 4	1.7	0.05	2.00	15	2.00

Table 3 Quality control tests results

Quality Control Tests												
		kVp accuracy (5%)	Reproducibility of Exposure (2%)	Timer accuracy (5%)	mA and exposure time linearity (10%)	Radiation output (5%)	HVL (mm Al)	Light/radiation beam alignment (1% SID)				Performance (%)
								Top	Bottom	Anode side	Cathode side	
Hospital												
1	Result	4	0.53	1	1	1	3.2	-3	-1	-0.1	0.5	
	Comments	Pass	Pass	Pass	Pass	Pass	Pass	Fail	Fail	Pass	Pass	80
Hospital												
2	Result	1	0.85	1	4	4	2.9	2.5	2.5	0.5	1.75	
	Comments	Pass	Pass	Pass	Pass	Pass	Pass	Fail	Fail	Pass	Fail	70
Hospital												
3	Result	1	1.32	#	3	1	2.7	2.3	-2.5	-0.1	0.5	
	Comments	Fail	Pass	—	Pass	Pass	Pass	Fail	Fail	Pass	Pass	67
Hospital												
4	Result	1	1.16	1	5	2	3.4	0.1	-3	0.1	0.1	
	Comments	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Fail	Pass	Pass	90

Test not done. Dash (—) indicates no comment. HVL measurements done at 80 kVp.

Table 5: Results of ESD survey in mGy: mean ESD per hospital, in brackets the ratio of mean ESD and DRLs.

Names	Examinations			
	CXR PA	Lumbar spine AP	Lumbar spine LAT	Pelvis AP
Hospital 1	0.41 (1.03)	7.07 (0.71)	8.54 (0.28)	1.55 (0.16)
Hospital 2	0.7 (1.75)	3.55 (0.36)	6.01 (0.20)	3.68 (0.37)
Hospital 3	1.6 (4.00)	14.7 (1.47)	28.6 (0.95)	—
Hospital 4	0.8 (2.00)	4.7 (0.47)	14.8 (0.49)	—
DRLs	0.4	10	30	10

Dash (—) indicates measurement not performed.