

Supplementary Materials

Establishing of a National Diagnostic Reference Level for Radiation Dose in Digital Paediatric Pelvic X-Rays in Jordan: A Multicenter Retrospective Study

Malak Al Hawadi.¹ Mohammad Ayasrah¹

¹ Department of Allied Medical Sciences,
Faculty of Applied Medical Sciences,
Jordan University of Science and Technology.
P.O. Box 3030, 22110 Irbid, Jordan

Supplementary Material Table S1 : List of Abbreviations

Abbreviation	Full Term
ACR	American College of Radiology
ALARA	As Low As Reasonably Achievable
CR	Computed Radiography
DR	Digital Radiography
DRL	Diagnostic Reference Level
ECA	Export Credit Agency
ESD	Entrance Surface Dose
FSD	Focus-to-Skin Distance
HCAC	Health Care Accreditation Council
ICRP	International Commission on Radiological Protection
IQR	Interquartile Range
MOH	Ministry of Health
NDRL	National Diagnostic Reference Level
Q1	First Quartile
Q3	Third Quartile
RMS	Royal Medical Services
SD	Standard Deviation
UNIV	University-affiliated Hospital
kVp	Kilovoltage Peak
mAs	Milliampere-seconds
AP	Anterior-Posterior
mGy	Milli-Gray
MI	Medical Imaging
ICRP	International Commission on Radiological Protection
MENA	Middle East and North Africa
PRIV	Private Hospital
QC	Quality Control
DICOM	Digital Imaging and Communications in Medicine
ANOVA	Analysis of Variance

IRB	Institutional Review Board
NRPB	National Radiological Protection Board
UNSCEAR	United Nations Scientific Committee on the Effects of Atomic Radiation
AEC	Automatic Exposure Control

Supplementary Table S2: Features of the X-ray Equipment

Manufacturer	Type	Total filtration (mm Al) ‡	Exposure Setting
PHILIPS	DR*	2.5	AEC and Manual
PHILIPS	CR**	2.5	AEC†
SHIMADZU	CR	1.5	Manual
SIEMENS	DR	2.5	AEC and Manual
GENERAL ELECTRIC (GE)	DR	2	AEC
CARESTREAM	DR	2	AEC
CARESTREAM	CR	2	Manual
FUJIFILM	CR	2.5	Manual

*Digital Radiography; **Computed Radiography; †Automatic Exposure Control; ‡ millimeters of aluminum filtration.