

NUCLEAR MEDICINE (SPECT) RADIATION DOSE GUIDE

This leaflet provides a guide to understanding the radiation dose that you will receive from your Siemens Intevo SPECT CT in the Nuclear medicine department. The radiation dose is calculated as the percentage of the annual background received by an individual. This is calculated as 2.2mSv.

Examination	Activity (MBq)	Radiation Dose (mSv)	No. Months Natural Background Radiation
BONE			
Bone Scan: Whole Body	600	3	16
Bone Scan: Limited	400	2	11
Bone marrow	400	4	22
RENAL			
Mag 3: Renogram	100	0.7	4
DTPA: Renogram	300	2	11
DMSA: Static Renal Scan	80	3	13
LIVER: Tin Colloid	80	0.8	4
BILIARY: HIDA	150	2	11
LUNG: Perfusion Scan Q	100	1	5
GLANDS			
Thyroid Scan - Pertechnetate	80	0.5	3
Lacrimal Scintidacrocystogram	4 per eye	0.04	0.2
Sestamibi Parathyroid Scan	400	3.6	20
MIBG Iodine 123 Scan Whole Body	400	5	27
GASTRIC			
Meckels Scan	400	5	27
SeHCAT capsule: Bile malabsorption study	0.4	0.3	1.7
LYMPHATICS			
Sentinel Node Detection and Imaging	40	0.1	0.5
Lymphoscintigram	20	0.05	0.3
INFECTION			
HMPAO	200	2	11
Gallium	150	15	82
In 111	20	9	49
NEUROLOGY			
DaTSCAN	185	4.4	23

The radiation dose values stated are for examinations undertaken on adults. Paediatric patients receive a fraction of the adult dose for the examination requested and this is calculated from their body weight.

CT RADIATION DOSE GUIDE IN SPECT CT

During your scan you may receive a CT scan as part of your SPECT CT examination. The following table outlines the radiation dose that you will receive with respect to the area being scanned.

Examination	CT Radiation Dose: (mGycm)	Radiation Dose : (mSv)
Glands	90	1
Spine	620	12
Pelvis	360	7
Knees	350	<0.5
Feet /Ankles	160	<0.5

The radiation dose values stated are for examinations undertaken on adults. Paediatric patients receive a fraction of the adult dose for the examination requested.

If you have any further questions please do not hesitate to contact **the Nuclear Medicine SPECT CT Department** on 01895 279368.