

HISTORY SHEET

HOSPITAL

MRS
PHYSICS
MUM.

Female
1942

DATE

CLINICAL NOTES
(Each entry must be signed)

Linear Accelerator - Varian Rapid Arc Machine
→ 6MV X-Ray Photons
30 Gy in 10 fractions to the Oesophagus + tumour

LINEAR ACCELERATOR - VARIAN RAPID ARC MACHINE
→ 6MV X-RAY PHOTONS
30 Gy in 10 fractions to the Oesophagus and
tumour

RADIATION WEIGHTING FACTOR OF 6MV X RAYS = 1

∴ EQUIVALENT DOSE H = ABSORBED DOSE D × W_R

H = D W_R
H = 30 × 1
H = 30 Sv

Average radiation due to natural background
= 2.2 mSv yr⁻¹

Employee limits ≈ 20 mSv / y or in special cases 100 mSv in 5 yrs with no more than 50 mSv in 1 yr.