Abstract:
A total of (135) woman in Najaf city was diagnostic by Mammography in al-Sadder Hospital.

The measurements of (kVp, mAs, mR/h) were taken against thickness of left & right breast at craniocandels position (cc) & Mediolateral position (ML). The size of film used is (18x24) cm only.

It is found that the voltage (kVp) increased slightly with thickness of breast directly. The average increasing for left & right breast about (6.94)& (6.7) kVp /cm at CC &ML position respectively.

The exposure (mAs) increased rapidly with thickness of breast. The average increasing for left & right breast about (9.82) & (10.28) mAs/cm at CC &ML position respectively.

The rate of exposure (mR/h) increased also with thickness. The average increasing for left & right breast about (0.033) & (0.038) mR/h for each cm at CC & ML position respectively.

The total average exposure rate that received to patient during mammography (0.132)& (0.152) mR/h at CC position and &ML position respectively, which more than (6%) of the exposure rate limit for the whole body for general public (22.4) μR/h.