

# “SPECT CT”-A game changer in Conventional Nuclear Medicine

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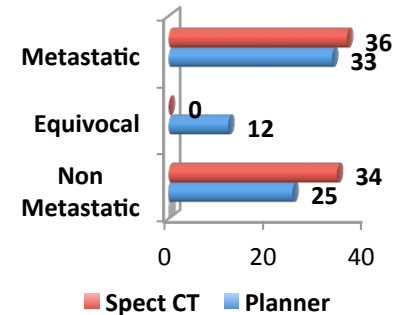
**Introduction:** In the current era of hybrid imaging, where PET/CT is not available, SPECT CT enables direct correlation of anatomical and functional imaging leading to precise localization of scintigraphic findings. The superiority of SPECT/CT over planar imaging has been established in many studies.

**Aims and objectives:** To ascertain the additive value of SPECT CT over planar imaging. **Material and Methods:** This retrospective study was being conducted in AECH-NORI, Islamabad. Data analysis of 85 RAI-131 post ablative and Dx whole body scans, 30 parathyroid and 70 bone scans from August 2019 to December 2020 were done.

**Results:** The findings of planar imaging were correlated with that of SPECT CT. There is a significant increase in number of lesions detected on SPECT CT as compared to planar imaging along with higher sensitivity, specificity and reduction of indeterminate findings, resulting in change of management in significant numbers of patients in different clinical scenarios and SPECT CT was found significantly better (p value <0.001).

**Conclusion:** This study concludes the additional value of hybrid SPECT/CT relative to planar imaging leading to the fact that this promising technique can play an important role in tailoring the management in different clinical scenarios, and is complementary to PET/CT.

## Bone Scan



## Parathyroid Imaging

