Global Summit on **ENDOCRINOLOGY**

August 22-23, 2022 | Webinar

Normocalcemic Primary hyperparathyroidism: 99mTc SestaMibi SPECT/CT results compare with hypercalcmic hyperparathyroidism

Martina Musumeci

Hospital Italiano de Buenos Aires, Argentina

Normocalcemic primary hyperparathyroidism (nPHPT) is defined by an inappropriately increased serum PTH with normal serum calcium. Information about the diagnostic yield of parathyroid SPECT/CT scan and ultrasonography in nHPPT is limited and not conclusive. Purpose: To evaluate the positivity rate of 99mTc_ Sestamibi SPECT/CT scan in nPHTP compared with classical hypercalcemic PHPT (cPHPT). Materials and Methods: We retrospectively studied 125 patients with 99mTc_ Sestamibi SPECT/CT scans. Subjects were divided into 2 groups: cPHPT (n = 93) and nPHPT (n = 32). Results: The detection rate of 99mTc_ Sestamibi SPECT/CT is compared with classical hypercalcemic PHPT (n = 93) and nPHPT (n = 32). Results: The detection rate of 99mTc_ Sestamibi SPECT/CT is compared with earcement of 19/9mTc_ Sestamibi SPECT/CT is compared with earcement was higher in cPHPT (19/32), p = .003. No significant differences were seen between the SPECT/CT was 98% on a per_patient basis (PPV 96%) and 91% on a per_lesion basis (PPV 88%). Glandular size was smaller in nPHPT (mean value 6.8 mm) and it was related only with PTH value. Conclusion: Localization rate of parathyroid hyperfunctioning tissue with 99mTc_Sestamibi SPECT/CT is lower in nPHPT and it is related to a smaller glandular size. However, our study suggests that the positivity rate and sensitivity are non negligible by adding SPECT/CT. The reduction in the detection rate in nPHPT could benefit techniques with higher resolution such as 18F_Choline PET/CT when the clinical context justifies it.

Biography

Martina Musumeci has completed her Medicine career at the age of 25 years from La Plata University and postdoctoral studies in Endocrinology and in Nuclear Medicine from Buenos Aires University. She is a doctor associate at Nuclear Medicine and PET/CT department in Hospital Italiano de Buenos Aires and Alexander Fleming Institute, in Buenos Aires, Argentina. She has published different papers in molecular images in hyperparathyroidism which is her field of expertise.