The Evaluation of Functioning Thyroid Nodules Using Sodium Pertechnetate TC-99m Scan in Comparison with Iodine-131

Abstract

Thyroid scintigraphy has been helpful in detecting and evaluation of thyroid nodules. Sodium pertechnetate TC-99m is the most commonly used radionuclide for thyroid imaging because of its general availability, favorable dosimetric characteristics and low cost. But, there are reports of occasional disparity in isotope uptake in lesions compared with radioiodide. In order to determine percentage and clinical significance of this disparity, we screened 101 patients with solitary functioning nodules using sodium pertechnetate TC-99m in comparison with subsequent iodine-131 scan in research institute for nuclear medicine. We conclude that sodium pertechnetate TC-99m is a reliable radionuclide for the detection and evaluation of thyroid nodules and there is no need for the subsequent iodine-131 scan.
Reference:


