Use of Digirad 2020tc Imager™, a multi-crystal scintillation camera with solid-state detectors in one case for the imaging of autografts of parathyroid glands

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99mTc-methoxy-isobutyl-isonitrile (99mTc-MIBI) scintigraphy with Digirad 2020tc Imager™ (2020tc), which was a multi-crystal scintillation camera with solid-state detectors was performed for patients with secondary hyperparathyroidism having autografts of parathyroid glands in the right arm. With the 2020tc camera, three abnormal accumulations were found in the right arm. The images obtained with this camera were superior in resolution to those obtained with a conventional NaI crystal gamma camera (ZLC7500, Siemens, Germany). The next day, resection of autografts of parathyroid glands was done. Four hyperplastic parathyroid glands were resected and all were hyperplastic in pathological findings.

Key words: 99mTc-MIBI, Digirad 2020tc Imager™, hyperplastic parathyroid gland, cesium iodine scintillator, autotransplantation