

I. Thyroid and Accessory Thyroid

THE COMPATATIVE STUDY OF THE THYROID SCINTIGRAM OF ^{201}Tl -CHLORIDE AND ^{131}I IN HASHIMOTO'S DISEASE

Osamu Sakamoto, Yutaka Orie, Tates Ogura,
Hiroaki Sano, Syohachiro Miyamori, Junichi Maeda
Asahikawa Kosei Hospital.

We have made an attempt to perform thyroid scintigraphy with ^{131}I and ^{201}Tl -Chloride in 56 patients with Hashimoto's disease. ^{201}Tl -Chloride scintigraphy was carried out at 20 minutes after the interavenous injection of 2 mci of ^{201}Tl -Chloride. On the other hand ^{131}I scintigraphy was recorded at 24 hours after oral administration of 100 μci of ^{131}I .

Both scintiphotos were obtained from a scintillation camera connected to a pin hole collimator.
Result:

- 1) In 29 of 56 patients with Hashimoto's disease, thyroid scintigram of ^{131}I showed various imagings, defect, deformity and obscurity.
In 12 patients ^{131}I scintigram were not showed thyroid imaging.
- 2) On the other hand, ^{201}Tl -Chloride scintigrams were obtained clear thyroide imagings 41 of 54 patients.
- 3) For the thyroide scintigram in Hashimoto's disease (especially in hypothyroidism), ^{201}Tl -Chloride were better than the images from ^{131}I .

There result suggested that ^{201}Tl -Chloride is useful in thyroid scintigraphies with Hashimoto's disease.

^{201}Tl SCINTIGRAPHY OF THE CHRONIC THYROIDITIS.

Osamu Okubo, Teiichiro Takahasi
Masahiro Kubota, Motosuke Yukawa
Nobuyoshi Muta.

Department of Radiology, Sapporo Medical Collge.

Seven patients with biopsy-provened chronic thyroiditis were investigated by ^{201}Tl thyroid Scintigraphy.

^{201}Tl thyroid scintigraphy were taken 10 minutes later after intravenous injection of ^{201}Tl chrolide 2mCi.

In all the 7 cases, the decreased uptake area in the ^{131}I or ^{123}I thyroid scintigraphy, were presented with the same activity compared as the other normal areas by ^{201}Tl scintigraphy.

Thyroglobulin antibody was negative in 2 out of 7 patients, microsome antibody negative in 1, and, both antibodies negative in 1.

The ^{201}Tl thyroid scintigraphy is thought to be a valuable method for the diagnosis of the chronic thyroiditis.