

TWO IMPORTANT FACTORS INFLUENCING THYROID  
INTERNAL DOSE FOR RADIOIODINE

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ABSTRACT

Radioiodine urinalysis of 24-hr integral urine sample and extracount detection were carried on daily throughout 15-day period in kinds of thyroidal function women who received diagnosis  $^{131}\text{I}(\text{NaI})$ . By these, the internal radiation doses for each subject were back-calculated. The results show: (1) the thyroid internal dose factors yield as a linear function of thyroid iodine uptake rates,  $D_{\text{Thy}} = 2.75 + 15.2K_{\text{Thy}}$ . (2) taking Methimazolum together with Thyroideum can accelerate  $^{131}\text{I}$  release from thyroid, increase  $^{131}\text{I}$  urine output and decrease the thyroid internal dose.