

204

AN APPLICATION OF SCINTI SCANNER TO THE ARM COUNTER IN Ca-47 ABSORPTION TEST. K.Tori-zumi, R.Yamada, S.Ebisuno, T.Ohkawa and K.Ohta. Wakayama Medical College. Wakayama.

This report deals with a method about Ca-47 absorption test of a scinti scanner in place of an arm counter. The performance characteristic examined are as follows.

(1) A detector of trial production collimator was surrounded with lead shielding 5cm thick. The counter was suited for detecting  $\gamma$ -ray energies above 100keV. The proposed method was favorable for the routine Ca-47 absorption test in view of simplicity and reliability.

(2) Normal fasting value was 40.9 ~ 52.9% (Mean $\pm$ SD%, 47.4  $\pm$  4.6%, N=9) and no difference was found between male and female. The Ca-47 absorption value of 76.2  $\pm$  7.1% in hyperparathyroidism, 24.8% in hypoparathyroidism, 29.5% and 36.9% in osteoposis were significantly different from normals.

---