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FUNDAMENTAL AND CLINICAL STUDIES OF INTRINSIC FACTOR BLOCKING ANTIBODY RADIOASSAY KIT. T.Higuchi, K.Sakai, K.Kokubun, T.Igarashi, T.Suzuki, S.Matsuda, T.Uchida and S.Kariyone. Fukushima Medical College, Fukushima.

Intrinsic factor (IF) blocking antibody used to be found in the serum of pernicious anemia and other diseases. On the immophase IF blocking antibody radioassay kit (Corning), basic examination and some clinical studies were performed. The results obtained were as follows; 1) Reproducibility of within assay, lot variances and daily variances were almost satisfactory. They were ranged from 2.1 to 7.2%, from 1.3 to 14.1% and from 2.1 to 14.1% in C.V., respectively. 2) The bound ratios (B/T%) were increased due to the duration of 1st incubation time from 28.9 to 33.8% and 20.4 to 25.1% in antibody positive serum and antibody positive control serum, respectively. 3) The bound ratios (B/T%) were also increased due to 2nd incubation time. 4) Dilution tests indicated the changes from positive to negative. 5) Recovery rate were 107.8 to 126.3%. 6) Concentration of Vit.B12 in the serum did not give any effect to the results. 7) All of 37 healthy cases, IF blocking antibody was negative. Three cases of pernicious anemia which showed also negative by other methods were all negative. IF blocking antibody positive were 27 cases suffered from malignant lymphoma, multiple myeloma, leukemia, refractory anemia, ITP, gastric cancer, liver cirrhosis, hepato-biliary disease, pancreas disease, other carcinoma, rheumatoid arthritis and malignant thymoma.
