

## Ferrokinetics Studies among the Primary Myelofibrosis

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We made an attempt to clarify the role of ferrokinetics in determining the indication of splenectomy for the treatment of primary myelofibrosis. Naturally, fibrosis of the bone marrow and extramedullary hematopoiesis from the pathological picture of primary myelofibrosis. Above all, the spleen is the principal site of extramedullary hematopoiesis. In short, there are many problems to be solved in the application of splenectomy to the treatment of this disease. Nevertheless, no definitely effective methods have been devised as yet for the therapy of this disease. Besides, miserable results are anticipated to be brought about to the case of this disease after a long course of illness.

Our studies were made on 3 cases encountered in the Department of Internal medicine, The Second Tokyo National Hospital, to clarify the ferrokinetics of the disease by means of  $^{59}\text{Fe}$ , as well as the hematology of the disease.

The results obtained from the 3 cases mentioned above are summarized as follows. Prognosis was bad in cases suffering from marked anemia and ascites. Prognosis was good when P I D was prolonged after operation and % R C U increased distinctly. It is not sufficient, however, to determine the rate of efficiency and P I T R alone. It is necessary to elucidate the conditions of early deposition of  $^{59}\text{Fe}$  in the spleen and the hematopoietic activity of the bone marrow. Accordingly, we estimated the radioactivity of these organ on the first day of surface counting and used the spleen/bone marrow ratio (S/B ratio) of this radioactivity as a parameter. As a result, it was made clear that the lower the S/B ratio, the better was prognosis. It is presumed, therefore, that this ratio may be of significance as one of the parameters which will determine the application of splenectomy to the treatment of primary myelofibrosis.

## Patterns of Whole Body Linear in Polycythemia Vera

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The distribution patterns of the erythropoietic marrow in 13 patients with polycythemia

vera were evaluated with a Ring-type Whole Body Linear Scanner using  $^{59}\text{Fe}$ . Ferrokinetics