Since 1975, haematological examinations have been made on 125 patients infected with Leishmania donovani in Nairobi, Kenya. Neutropenia was seen in 54 of 84 cases. The haemoglobin was less than 10 g/dl in over 90%, two-thirds of the patients having moderate to severe anaemia. Thrombocytopenia was present in 20%. The bone marrow was hyperplastic in almost all cases, due to normoblastic erythroid hyperplasia in 74%, megaloblastic in 17% and micronormoblastic in 8%. Storage iron was normal or increased in only 26% but absent or decreased in 74%, suggesting that three-quarters of the patients suffer from iron deficiency.