The purpose of this study is evaluation of differential diagnosis of diffuse hepatic disease based on the objective and reproductive indices of hepatic scintigram which are extracted by computer processing. Several objective and reproductive indices of the hepatic scintigram are extracted by computer processing with or without personal subtle deviation of criteria. Based on the results of the classification of all samples by using these indices without personal deviation, 23 of 29 (79.3%) are accurately diagnosed and using all indices, 29 of 29 (100.0%) are accurately diagnosed. The cases are not much of a number, however, this result suggests that the differential diagnosis of diffuse hepatic disease by hepatic scintigram is possible by using the indices and that automated computer diagnosis of diffuse hepatic disease is enabled by programing for the extraction of these indices from hepatic scintigram.