

Figure legends

Supplementary Figure S1.Immunophenotypes and MR study of cirrhosis.“Leave-one-out”sensitivity analysis of the the risk relationship between BAFF-R on CD20- B cell and cirrhosis,funnel plot, forest plot,and scatter plot.

Supplementary Figure S2.Immunophenotypes and MR study of cirrhosis.“Leave-one-out”sensitivity analysis of the the risk relationship between CCR2 on CD62L+ myeloid DC and cirrhosis,funnel plot, forest plot,and scatter plot.

Supplementary Figure S3.Immunophenotypes and MR study of cirrhosis.“Leave-one-out”sensitivity analysis of the the risk relationship between CD25 on IgD- CD38dim B cell and cirrhosis,funnel plot, forest plot,and scatter plot.

Supplementary Figure S4.Immunophenotypes and MR study of cirrhosis.“Leave-one-out”sensitivity analysis of the the risk relationship between CD25 on memory B cell and cirrhosis,funnel plot, forest plot,and scatter plot.

Supplementary Figure S5.Immunophenotypes and MR study of cirrhosis.“Leave-one-out”sensitivity analysis of the the risk relationship between CD33 on basophil on myeloid cell and cirrhosis,funnel plot, forest plot,and scatter plot.

Supplementary Figure S6.Immunophenotypes and MR study of cirrhosis.“Leave-one-out”sensitivity analysis of the the risk relationship between CD33 on CD33dim HLA DR- on myeloid cell and cirrhosis,funnel plot, forest plot,and scatter plot.

Supplementary Figure S7.Immunophenotypes and MR study of cirrhosis.“Leave-one-out”sensitivity analysis of the the risk relationship between CD33 on CD66b++ myeloid cell and cirrhosis,funnel plot, forest plot,and scatter plot.

Supplementary Figure S8.Immunophenotypes and MR study of cirrhosis.“Leave-one-out”sensitivity analysis of the the risk relationship between CD33 on Im MDSC on myeloid cell and cirrhosis,funnel plot, forest plot,and scatter plot.

Supplementary Figure S9.Immunophenotypes and MR study of cirrhosis.“Leave-one-out”sensitivity analysis of the the risk relationship between CD33br HLA DR+ CD14dim %CD33br HLA DR+ on myeloid cell and cirrhosis,funnel plot, forest plot,and scatter plot.

Supplementary Figure S10.Immunophenotypes and MR study of cirrhosis.“Leave-one-out”sensitivity analysis of the the risk relationship between CD38 on CD20- on B cell and cirrhosis,funnel plot, forest plot,and scatter plot.

Supplementary Figure S11.Immunophenotypes and MR study of cirrhosis.“Leave-one-out” sensitivity analysis of the the risk relationship between CD39 on CD39+ secreting Treg cell and cirrhosis,funnel plot, forest plot,and scatter plot.

Supplementary Figure S12.Immunophenotypes and MR study of cirrhosis.“Leave-one-out” sensitivity analysis of the the risk relationship between HLA DR on CD33dim HLA DR+ CD11b+ on myeloid cell and cirrhosis,funnel plot, forest plot,and scatter plot.

Supplementary Figure S13.Immunophenotypes and MR study of cirrhosis.“Leave-one-out” sensitivity analysis of the the risk relationship between SSC-A on NK and cirrhosis,funnel plot, forest plot,and scatter plot.

Supplementary Table S1. A datasheet containing 731 immunophenotypes and their causal relationship with cirrhosis.

Supplementary Table S2.Instrumental variables(selected SNPs) used in MR analysis of the relationship between immunophenotypes and cirrhosis.

Supplementary Table S3. The 14 immunophenotypes was identified through a rigorous process, along with comprehensive information regarding their causal relationship with cirrhosis.

Supplementary Table S4.Comprehensive information on the 731 immunophenotypes.