**Figure S9.1:** Odds ratios for the effect of IL6R blockade for each outcome with outlying SNPs identified by Radial MR removed in FinnGen (red), UK Biobank (blue), and meta-analysed across both (black). Results generated by IVW MR. Red represents the MR estimate with outliers removed, black the primary MR estimate.

Graphical user interface

Description automatically generated

**Figure S9.2:** Inverse-variance weighted MR effect estimates (betas) when leaving out one SNP iteratively (leave one out analyses) for a: critically unwell sepsis cases, b: level 3 sepsis cases, c: sepsis cases, and d: sepsis related mortality.

A picture containing text, appliance, air conditioner

Description automatically generated

**Figure S9.3:** Odds ratios generated by the Wald ratio for the Asp358Ala (rs2228145) SNP association with a) Sepsis related outcomes, b) COVID-19 related outcomes, and c) all other UK Biobank outcomes.

Graphical user interface, diagram

Description automatically generated with medium confidence