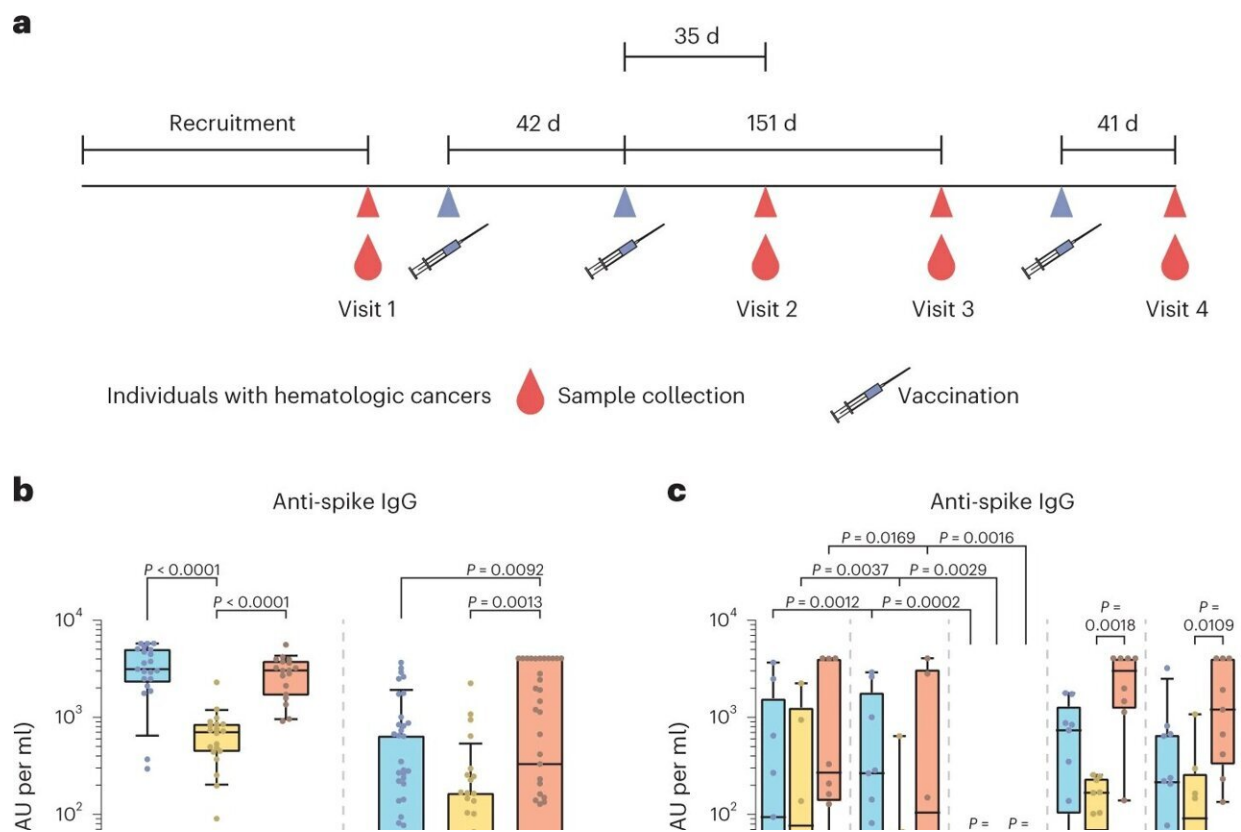


COVID-19 vaccination shown to protect people with blood cancer

December 22 2022



Study time chart, anti-spike IgG levels and IgG avidity in individuals with hematologic neoplasia and in healthy individuals at different time points after COVID-19 vaccination. **a**, Time chart of the study depicting time points of vaccination and blood sample collection in a cohort of individuals with hematologic cancers. Pre-vaccination samples were collected shortly before vaccination 1 (visit 1). Visit 2 occurred 2–8 weeks (median of 35 d) after vaccination 2. Visit 3 occurred 4–5 months (median of 149 d) after vaccination 2. Visit 4 occurred 2–8 weeks (median of 40 d) after vaccination 3. Vaccinations

1 and 2 were administered 6 weeks apart (median of 42 d); vaccinations 2 and 3 were 6 months apart (median of 189 d). **b–d**, Data are depicted as box plots with median, bounds between upper and lower quartiles and whiskers between the 10th and 90th percentiles. Differences between time points (visit 2, blue; visit 3, yellow; visit 4, red) were analyzed for statistical significance using the Kruskal–Wallis test with Dunn’s multiple-testing correction. Brackets show statistically significant differences, and precise numerical *P* values are indicated. Absence of brackets indicates absence of significance. **b**, Anti-spike S1 domain IgG titers in BAU per ml at different time points after vaccinations 2 and 3. The following samples were analyzed for groups of healthy individuals and individuals with hematologic neoplasia: 2–8 weeks after vaccination 2 (visit 2, blue; $N = 21/N = 57$), 4–5 months after vaccination 2 (visit 3, yellow; $N = 20/N = 42$) and 2–8 weeks after vaccination 3 (visit 4, red; $N = 19/N = 42$). **c**, Levels of antibody specific to the spike S1 domain after vaccinations 2 and 3 comparing subgroups of individuals with hematologic neoplasia; untreated LY (visit 2, $N = 9$; visit 3, $N = 6$; visit 4, $N = 8$)/LYs treated with Rx 12–60 months before receiving the first vaccination (Rx 12–60; visit 2, $N = 9$; visit 3, $N = 7$; visit 4, $N = 6$)/LYs treated with Rx in the last 12 months before the first vaccination (Rx

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