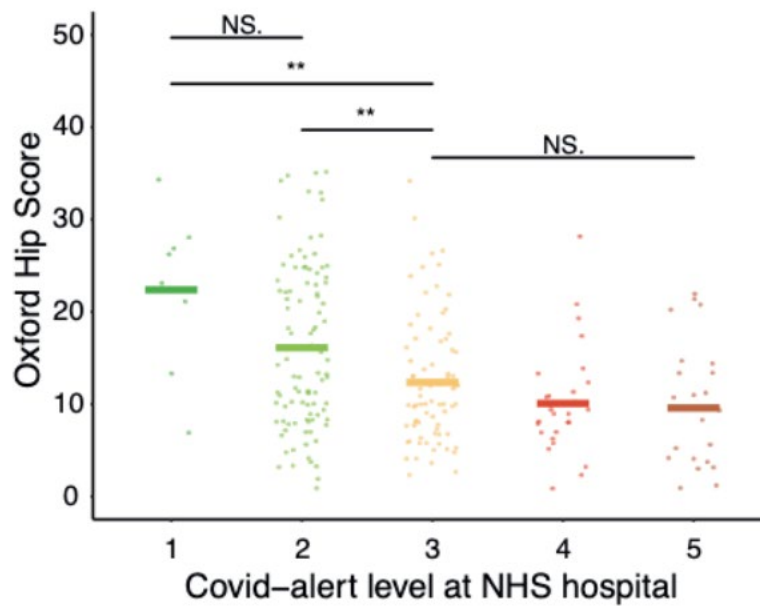# Supplementary Material

Fig aa. Patient-selected COVID-19 alert level that patients are willing to undergo total hip and knee arthroplasty in an NHS hospital against joint-specific quality of life measure:
Oxford Hip Score for each COVID-19 alert level. NS, not significant. **p < 0.01, Kruskal-Wallis with Dunn post-hoc test. Significant comparisons not shown on graph: level 1 versus level 4 (p < 0.001) and level 5 (p < 0.001). Level 2 versus level 4 (p = 0.009) and level 5 (p < 0.001). Non-significant comparisons not shown on graph: level 3 versus level 4 (p = 1.00), level 3 versus level 5 (p = 1.00), level 4 versus level 5 (p = 1.00).

Fig ab. Patient-selected COVID-19 alert level that patients are willing to undergo total hip and knee arthroplasty in an NHS hospital against joint-specific quality of life measure: Oxford Knee Score for each COVID-19 alert level. NS, not significant. ***$p < 0.001$, Kruskal-Wallis with Dunn post-hoc test. Significant comparisons not shown on graph: level 1 versus level 4 ($p < 0.001$) and level 5 ($p < 0.001$). Level 2 versus level 4 ($p = 0.017$) and level 5 ($p = 0.009$). Non-significant comparisons not shown on graph: level 3 versus level 4 ($p = 1.00$), level 3 versus level 5 ($p = 1.00$), level 4 versus level 5 ($p = 1.00$).
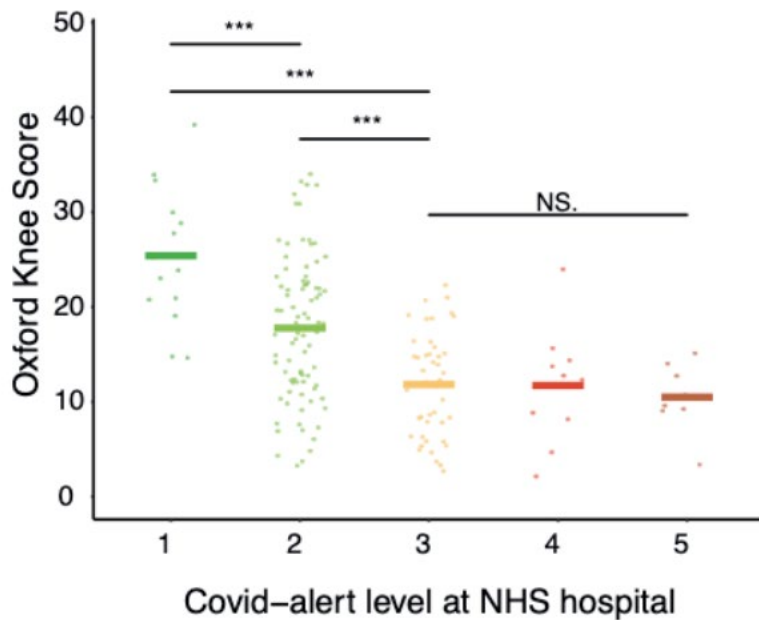
Table i. Results of univariate analysis assessing different patient factors that influence whether patients would be willing to attend an NHS hospital for hip and knee arthroplasty surgery at higher COVID-19 alert levels.

Variable	Proportional OR	95% CI	p-value
Patients awaiting hip arthroplasty			
Decreasing OHS	1.10	1.07 to 1.14	< 0.001
Decreasing EQ-5D-3L index	5.00	2.42 to 11.1	< 0.001
Decreasing EQ-VAS	1.02	1.01 to 1.03	< 0.001
Male sex	1.75	1.07 to 2.86	0.024
Increasing age	0.99	0.97 to 1.01	0.168
Previous hip or knee arthroplasty	0.75	0.45 to 1.25	0.269
Increasing time on arthroplasty waiting list	1.01	0.99 to 1.02	0.538
COVID-19 risk status			
High risk	0.75	0.39 to 1.45	0.385
Medium risk	1.42	0.18 to 1.52	0.238

Low risk	1.42	0.15 to 13.33	0.385
Personal or family history of COVID-19	0.63	0.23 to 1.76	0.379
Patients awaiting knee arthroplasty			
Decreasing OKS	1.16	1.11 to 1.21	< 0.001
Decreasing EQ-5D-3L index	14.9	5.70 to 38.5	< 0.001
Decreasing EQ-VAS	1.03	1.01 to 1.04	0.002
Male sex	1.28	0.71 to 2.33	0.405
Increasing age	0.97	0.93 to 1.01	0.111
Previous hip or knee arthroplasty	0.70	0.39 to 1.25	0.228
Increasing time on arthroplasty waiting list	1.00	0.99 to 1.01	0.652
COVID-19 risk status			
High risk	0.57	0.21 to 1.55	0.269
Medium risk	1.39	0.59 to 3.30	0.450
Low risk	1.67	0.15 to 18.56	0.678
Personal or family history of COVID-19	1.39	0.28 to 6.50	0.701

EQ-5D-3L, EuroQol five-dimension three-level questionnaire; OHS, Oxford Hip Score; OKS, Oxford Knee Score; VAS, visual analogue scale.