

Supplementary Table 1 Weighted Kappa values between eVai and Franklin for each of the 20 severe COVID-19 samples. Each entry includes the Kappa statistic, corresponding P-value, lower and upper confidence intervals (CI), indicating the degree of agreement between the two variant interpretation tools.

Sample	Kappa statistic	P-value	Lower CI	Upper CI
CVD1	0.2618	2.245e-117	0.2395	0.2841
CVD2	0.2963	1.284e-94	0.2682	0.3245
CVD3	0.2025	2.397e-92	0.1831	0.2220
CVD4	0.2284	8.951e-114	0.2087	0.2482
CVD12	0.2075	9.596e-101	0.1884	0.2266
CVD20	0.2510	6.523e-108	0.2287	0.2733
CVD21	0.3250	3.262e-123	0.2981	0.3520
CVD22	0.2529	1.025e-102	0.2299	0.2759
CVD23	0.3622	8.425e-119	0.3316	0.3929
CVD26	0.2724	3.304e-132	0.2505	0.2942
CVD27	0.2784	8.350e-140	0.2567	0.3001
CVD29	0.3225	1.871e-139	0.2974	0.3476
CVD30	0.3187	2.106e-143	0.2942	0.3432
CVD38	0.4070	3.528e-98	0.3691	0.4449
CVD39	0.3124	7.499e-115	0.2856	0.3393
CVD40	0.2934	1.312e-111	0.2678	0.3191
CVD42	0.3108	6.544e-97	0.2816	0.3399
CVD43	0.3082	1.584e-111	0.2813	0.3351
CVD45	0.3178	2.293e-138	0.2930	0.3427
CVD46	0.2713	1.332e-130	0.2494	0.2931
All variants	0.2281	0	0.2208	0.2353

Supplementary Figure 1. Gene, Variant and Classification Overlap Between eVai and Franklin in each of the 20 Severe COVID-19 Samples



















