

[Supplemental Figures]

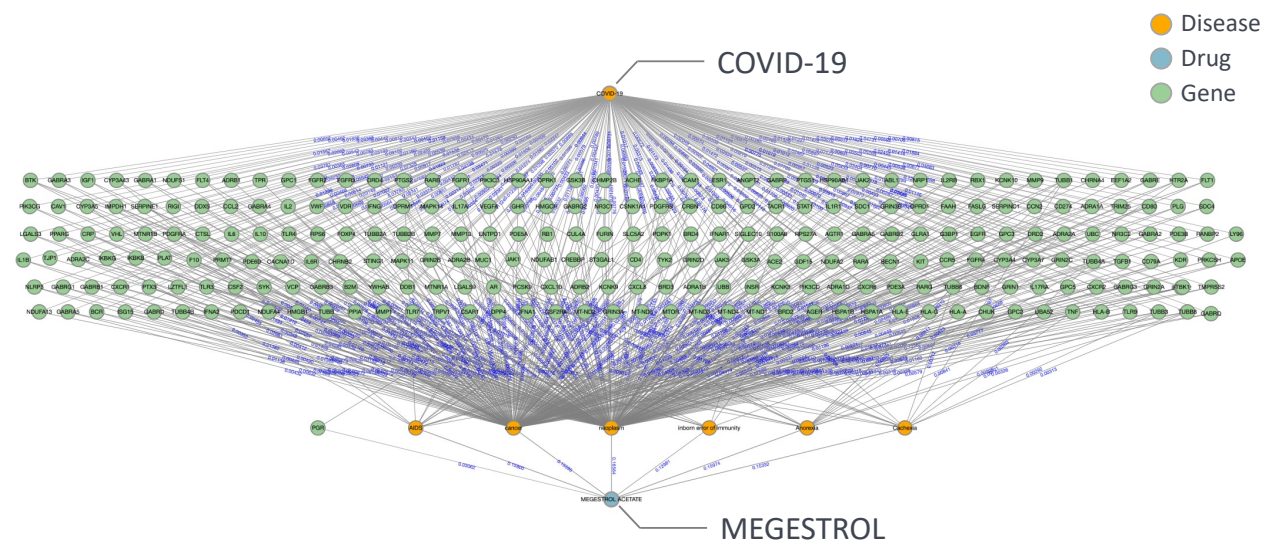


Figure S1 Subnetwork connecting COVID-19 and megestrol in a multimodal knowledge graph

Nodes are colored by type: orange for diseases, blue for drugs, and green for genes.

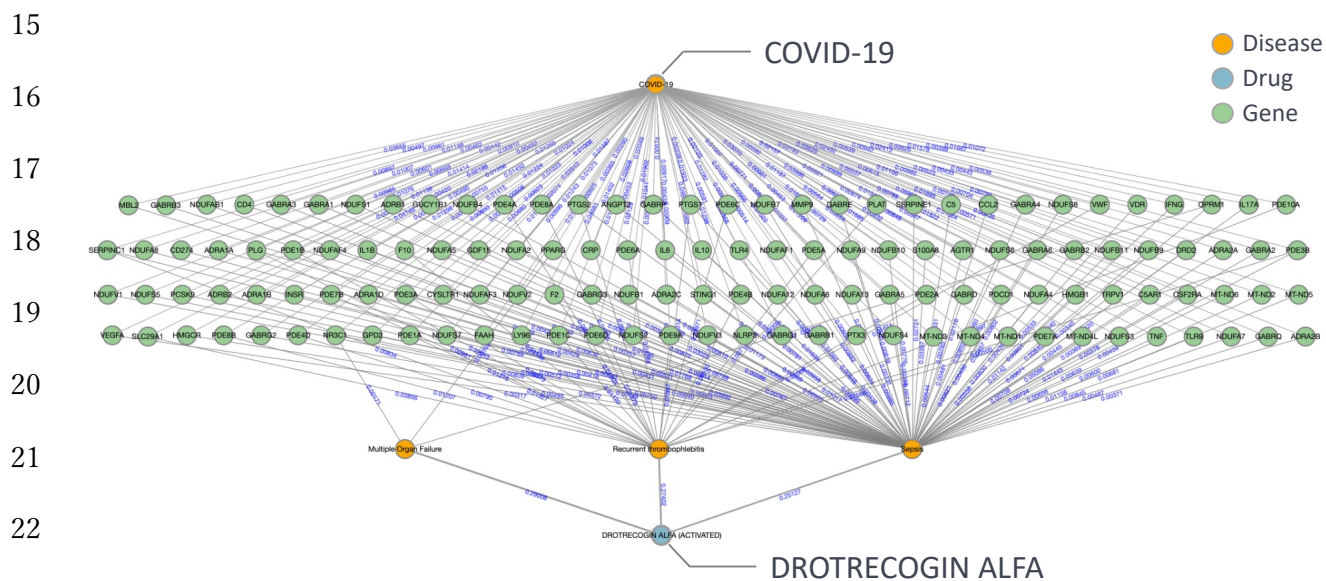


Figure S2 Subnetwork connecting COVID-19 and drotrecogin alfa in a multimodal knowledge graph

Nodes are colored by type: orange for diseases, blue for drugs, and green for genes.

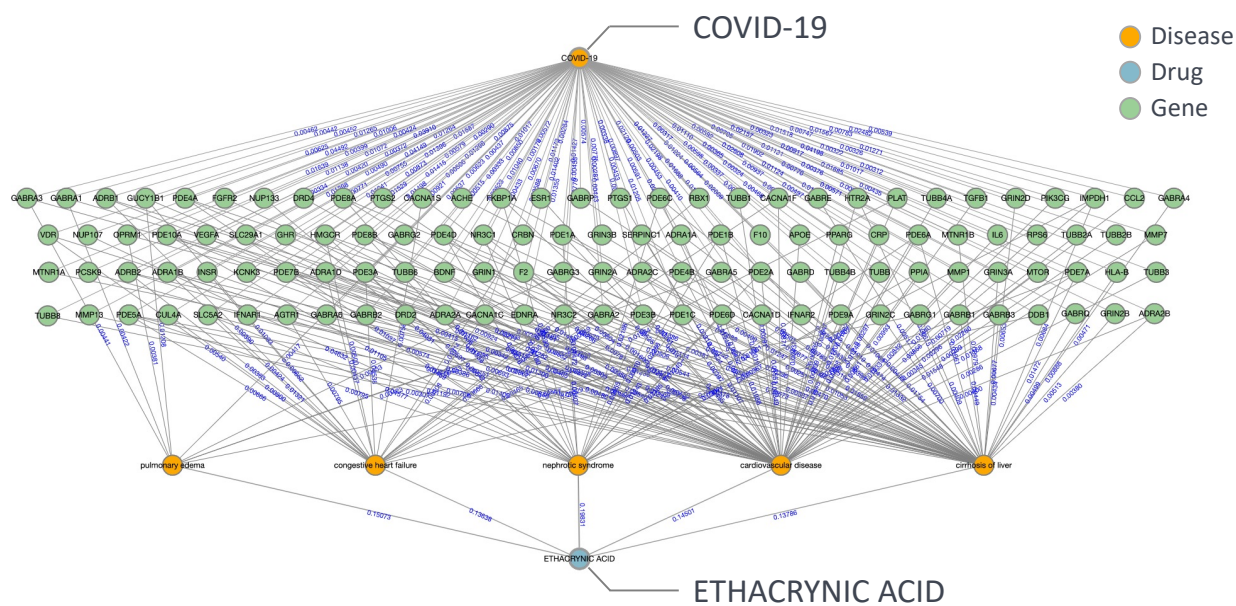


Figure S3 Subnetwork connecting COVID-19 and ethacrynic acid in a multimodal knowledge graph

Nodes are colored by type: orange for diseases, blue for drugs, and green for genes.

A

Drug	ROR	95%CI
cilastatin	0.19	0.09-0.43
clavulanic acid	0.87	0.69-1.10
sulbactam	1.08	0.77-1.51
tazobactam	1.30	1.16-1.46
avibactam	1.40	0.84-2.34
sultamicillin	0.88	0.28-2.75

B

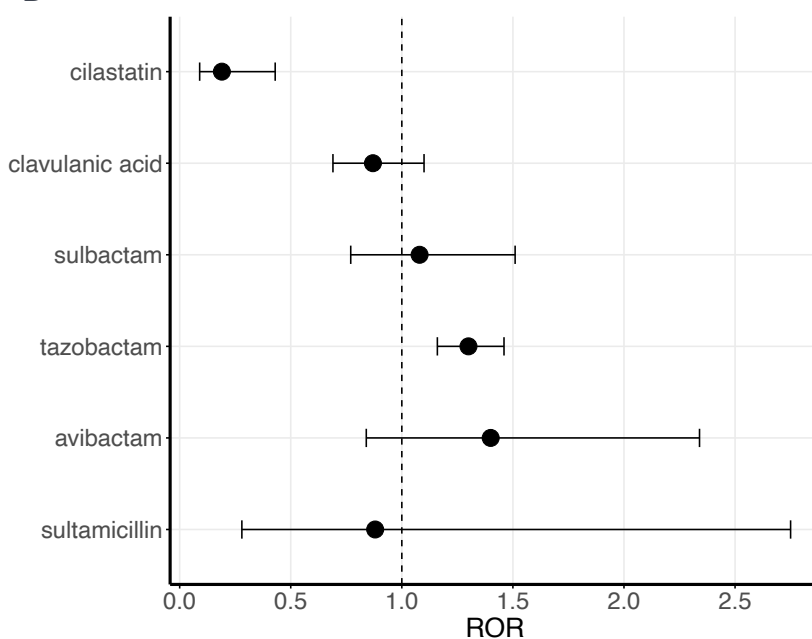


Figure S4 DPA of β -lactamase inhibitors and coronavirus infections

(A) RORs and 95% CIs for cilastatin and β -lactamase inhibitors. (B) Forest plot visualizing RORs for the same set of drugs.

A

Drug	ROR	95%CI
megestrol	0.63	0.42-0.94
sex hormone	0.52	0.47-0.58
anticancer agent	0.62	0.47-0.81
systemic hormonal contraceptive	0.48	0.43-0.54
progesterone	0.33	0.27-0.39

B

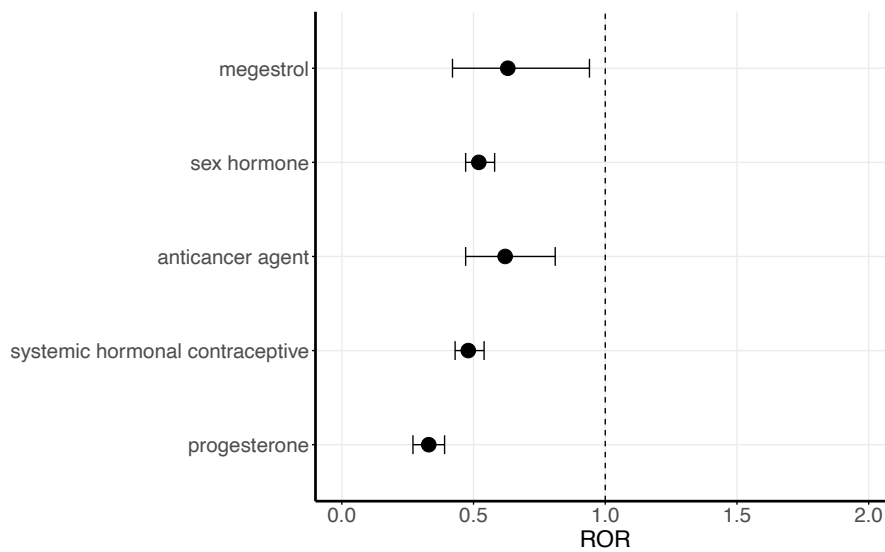


Figure S5 DPA of progestins and related drug classes and coronavirus infections

(A) RORs and 95% CIs for progestins and related drug classes. (B) Forest plot visualizing RORs for the same set of drugs.