Α Top explanatory factors, DLCO < 80% and DLCO vertices: n = 24, edges: n = 74 impaired physical performance, ECOG > 0 endocrine/metabolic disease Kendall's τ physical performance, ECOG - 0.4 hypercholesterolemia 0.6 8.0 anti-coagulants during COVID-19 cardiovascular illness age class **1.0** variable classifcation anti-infectives during COVID-19 body mass class age at admission hospital stay BMI risk factors and CoV severity any CT findings symptoms ICU stay reticulation time after CoV CT readouts and findings high opacity, Al bronchiectasis В CTSS and opacity, AI CTSS and high opacity, AI Opacity, Al and high opacity, Al  $\rho = 0.83 [0.77 - 0.88], p < 0.001, n = 420$  $\rho = 0.72 [0.65 - 0.79], p < 0.001, n = 420$  $\rho = 0.86 [0.83 - 0.89], p < 0.001, n = 420$ 400 400 400 high opacity, AI, rank high opacity, AI, rank opacity, AI, rank 300 300 200 200 100 100 000000 0 0 00 0 0 100 100 200 300 400 100 200 300 400 100 200 300 400 CTSS, rank CTSS, rank opacity, AI, rank C **CTSS CTSS** Opacity, AI Opacity, AI r = 0.92, p < 0.001r = 0.87, p < 0.001r = 0.75, p < 0.001r = 0.78, p < 0.00140 40 20 20 30 30 15 15 00 20 20 % of lung % of lung points points 10 10 10 5 5 yes no no yes no no yes yes n = 233n = 207 n = 233n = 187n = 213n = 187n = 213n = 207GGO GGO reticulation reticulation