Dynamic 10-Year AUC: Slope vs No-Slope Model
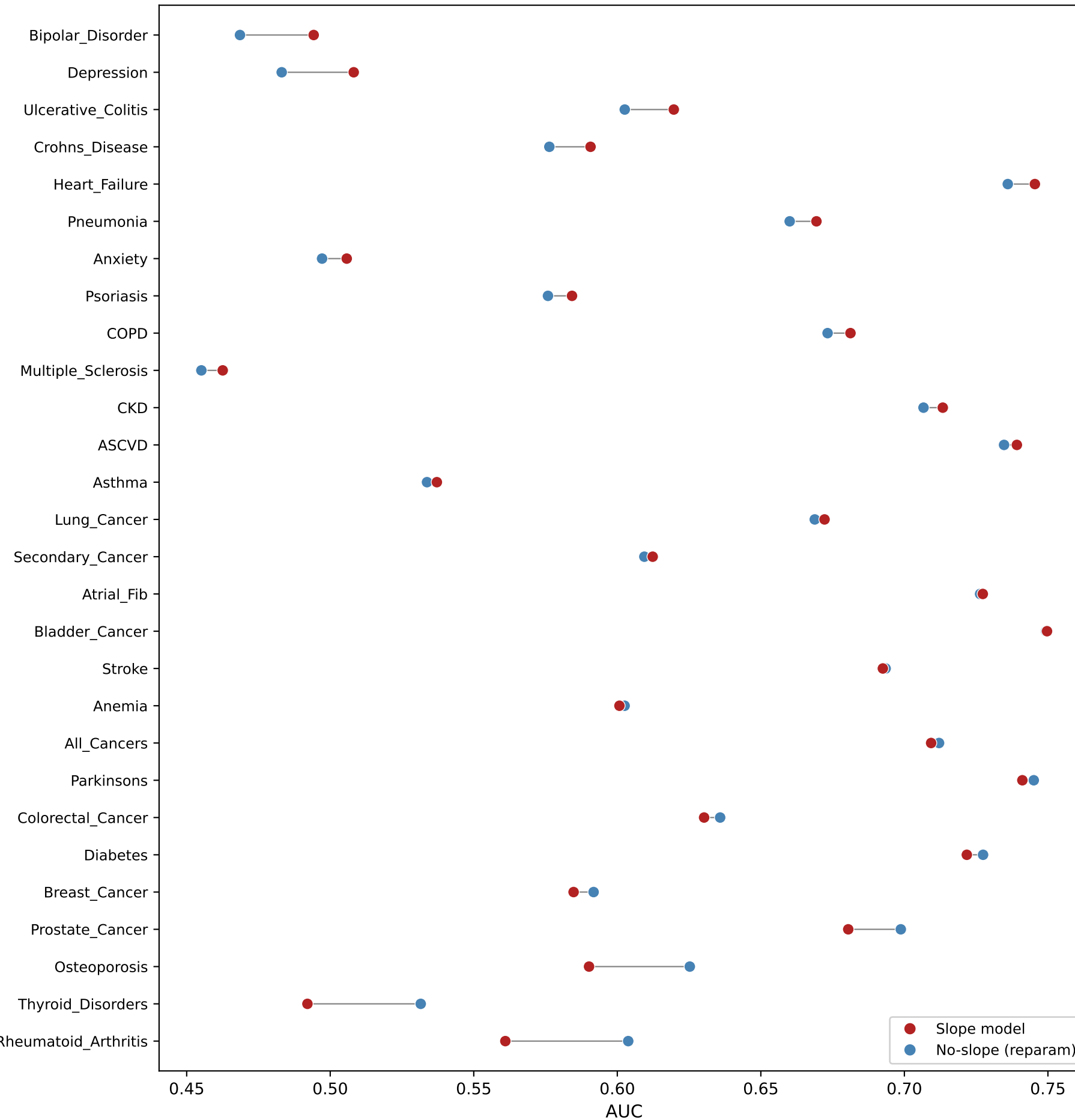**(Holdout evaluation on 100k patients)**

Holdout AUC (100k patients)

Improvement

Condition	ΔAUC (slope − no-slope)
Bipolar_Disorder	+0.026
Depression	+0.025
Ulcerative_Colitis	+0.017
Crohns_Disease	+0.014
Heart_Failure	+0.009
Pneumonia	+0.009
Anxiety	+0.009
Psoriasis	+0.008
COPD	+0.008
Multiple_Sclerosis	+0.007
CKD	+0.007
ASCVD	+0.004
Asthma	+0.003
Lung_Cancer	+0.003
Secondary_Cancer	+0.003
Atrial_Fib	+0.001
Bladder_Cancer	+0.000
Stroke	-0.001
Anemia	-0.002
All_Cancers	-0.003
Parkinsons	-0.004
Colorectal_Cancer	-0.006
Diabetes	-0.006
Breast_Cancer	-0.007
Prostate_Cancer	-0.018
Osteoporosis	-0.035
Thyroid_Disorders	-0.039
Rheumatoid_Arthritis	-0.043

Legend: ● Slope model ● No-slope (reparam)

x-axis (left): AUC — 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75

x-axis (right): ΔAUC (slope − no-slope) — -0.04, -0.03, -0.02, -0.01, 0.00, 0.01, 0.02