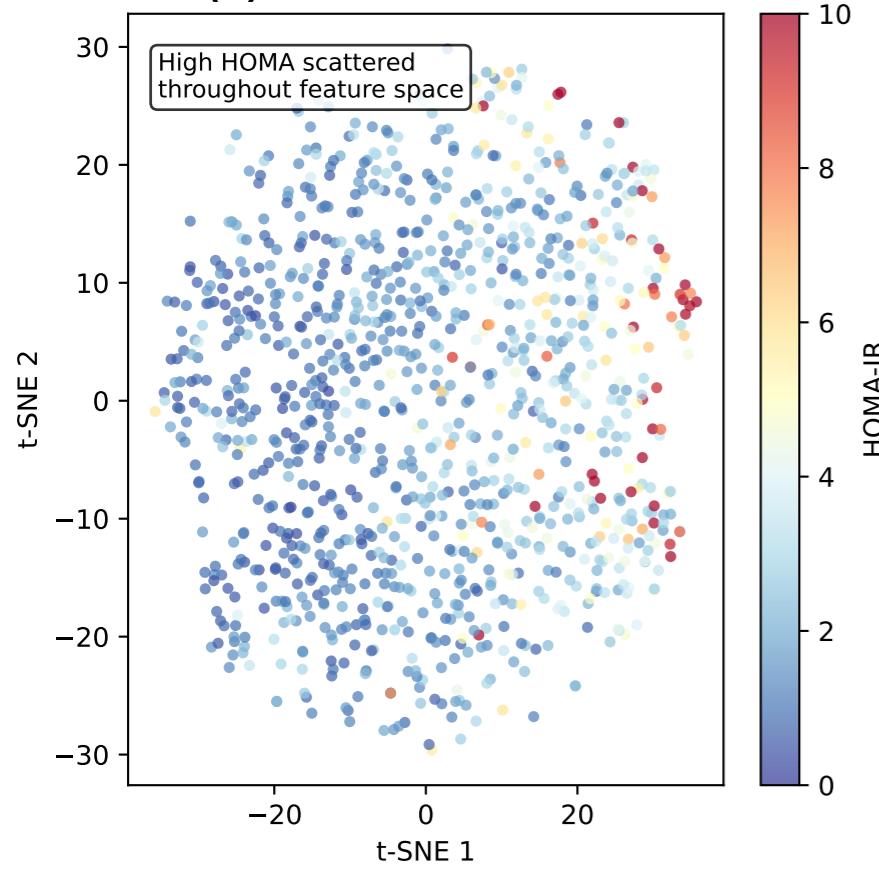
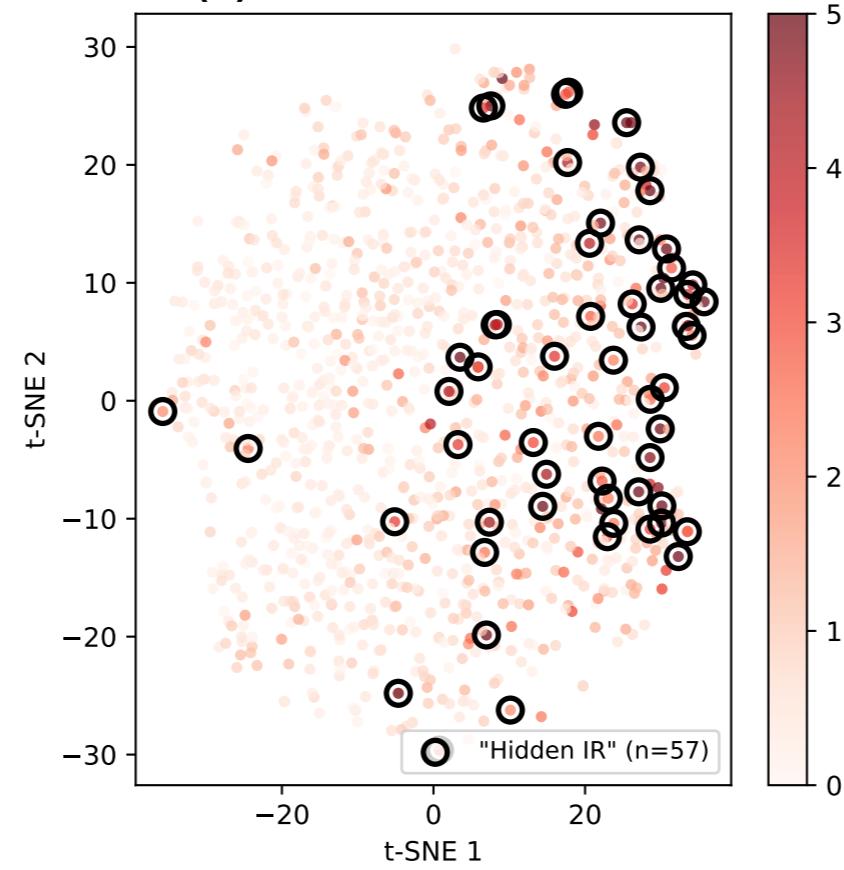


The "Hidden Insulin Resistant": Patients Our Model Cannot Predict

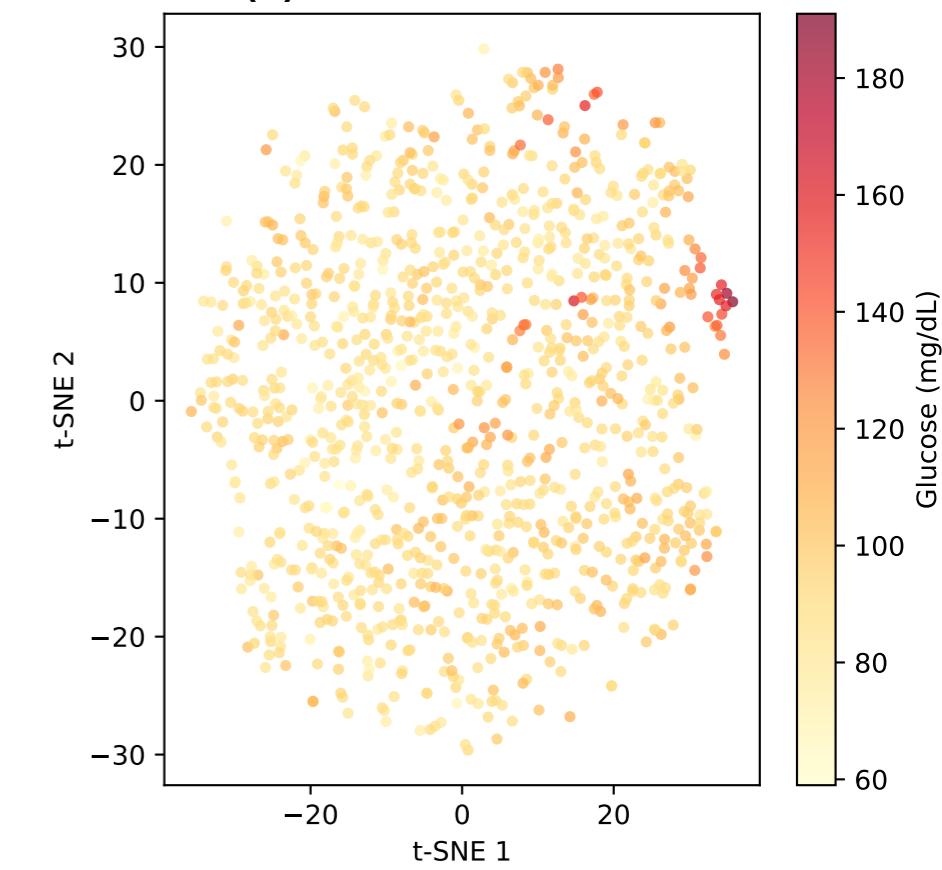
(A) t-SNE: True HOMA-IR



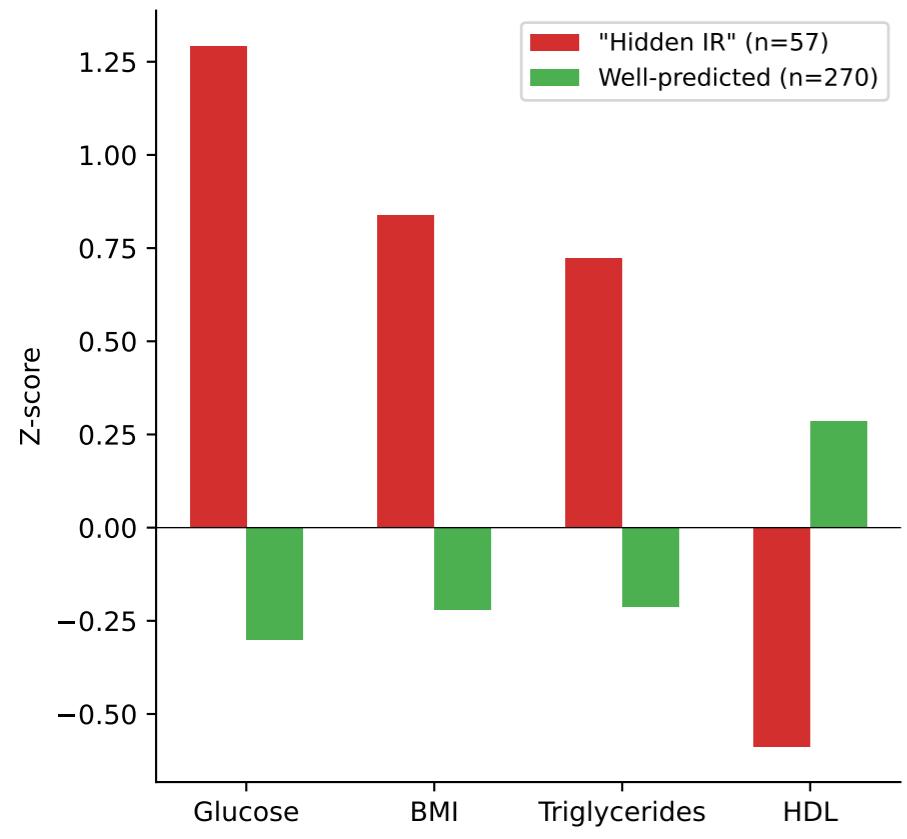
(B) t-SNE: Prediction Error



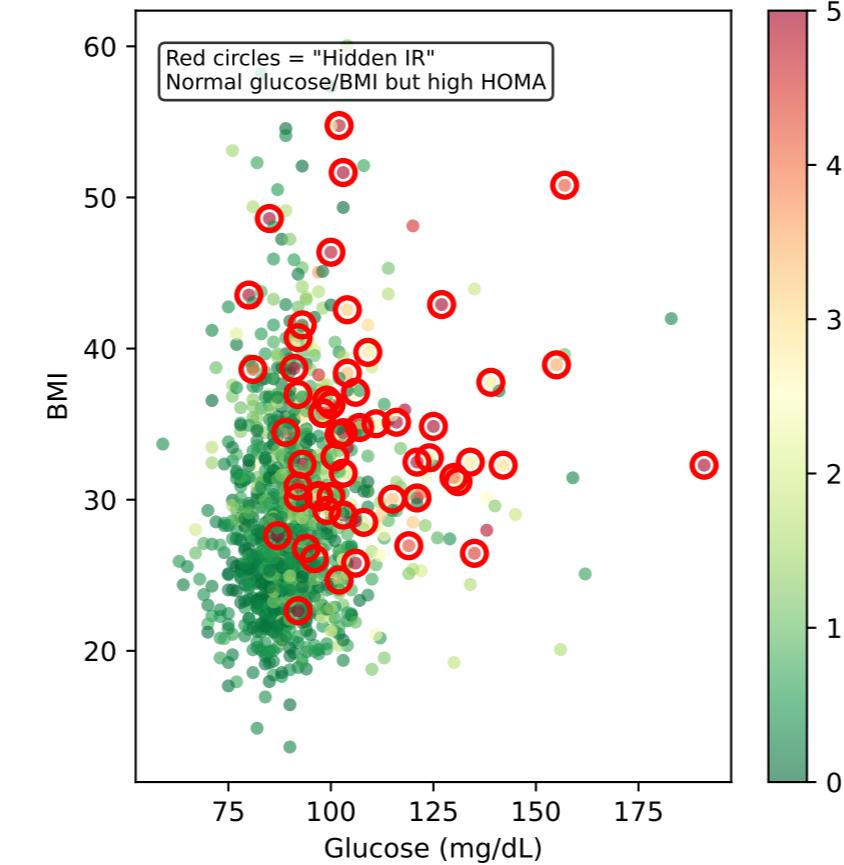
(C) t-SNE: Glucose Level



(D) Feature Profiles: Hidden IR vs Well-Predicted



(E) Glucose x BMI: Where Errors Occur



(F) Worst Predictions: Case Studies

True HOMA	Pred HOMA	Error	Glucose	BMI	Trig	Sex
14.4	3.6	10.8	93	32.4	89	M
13.7	3.7	9.9	103	29.0	97	M
14.8	5.7	9.2	121	30.1	171	F
12.4	3.3	9.1	106	25.8	117	M
11.5	3.4	8.1	80	43.5	142	M
9.0	2.3	6.7	87	27.6	175	F
12.2	5.8	6.4	127	42.9	103	F
9.3	3.1	6.3	85	48.6	177	F

These patients have elevated insulin but normal-appearing glucose/BMI — invisible to any model without insulin measurement.