Clinical Impact: How Our Model Guides Treatment Decisions

CURRENT APPROACH

All 227 patients receive chemotherapy 159 respond (70%) | 68 don't respond (30%) Result: 68 patients suffer side effects without benefit



WITH OUR ML MODEL

True Positive (correctly treated)

True Negative (correctly avoided)

False Positive (unnecessarily treated)

False Negative (missed treatment)

Model Says: TREAT

Model Says: DON'T TREAT

165 patients 135 will respond (TP) 30 won't respond (FP) 62 patients 38 correctly avoided (TN) 24 will miss benefit (FN)

Model Performance: Sensitivity = 84.9% | Specificity = 55.9% | AUC = 0.705