**ONLY CLINICAL DATA :**

HIGHEST SCORE WITHOUT CV AT: 0.01; the score decreases after that.

HIGHEST SCORE WITH CV AT CV: Almost the same

CV SCORES ARE BETTER OR NOT THAN WITHOUT CV: they are almost the same (only 1 or 2 % difference)

**ONLY 250 GENES:**

All the test scores are negative.

CV SCORES ARE BETTER OR NOT THAN WITHOUT CV: the scores are not negative. The scores better with cv=20. But the scores are not great.; MSE is the least here.

**250 GENES AND CLINICAL DATA:**

HIGHEST SCORE WITHOUT CV AT: 0.15

HIGHEST SCORE WITH CV AT CV: scores don’t really change with or without cv. The scores r almost same as alpha = 0.5 .

CV SCORES ARE BETTER OR NOT THAN WITHOUT CV: yes . the difference between the test and the train scores is not that much here. The mse is also much lower than all the non-cv scores.

**2K GENES ONLY**

All test scores are less than ten percent , for alpha values smaller than 10, the test scores are negative and after alpha=30, the test scores are again negative. All train scores are less than 20 %.

CV SCORES ARE BETTER OR NOT THAN WITHOUT CV: cv scores are not better . the test score is negative.

**2K GENES AND CLINCAL DATA:**

Good scores . the difference is not greater than 20 %. For cv=30, the scores are highest. Any value of cv below that and above it are less than scores at cv=30.

CV SCORES ARE BETTER OR NOT THAN WITHOUT CV: almost the same. The train scores have a difference of 6%. The test scores are similar to the scores of cv=30.