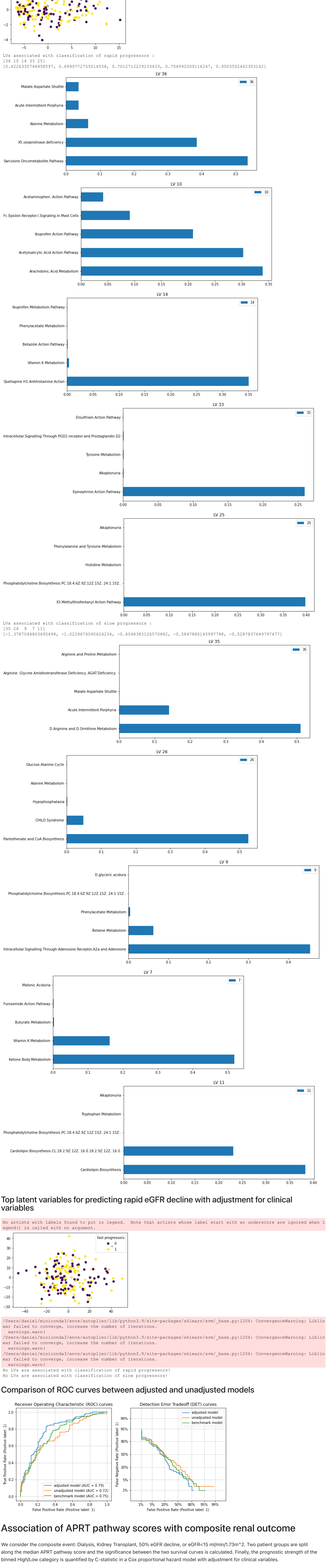
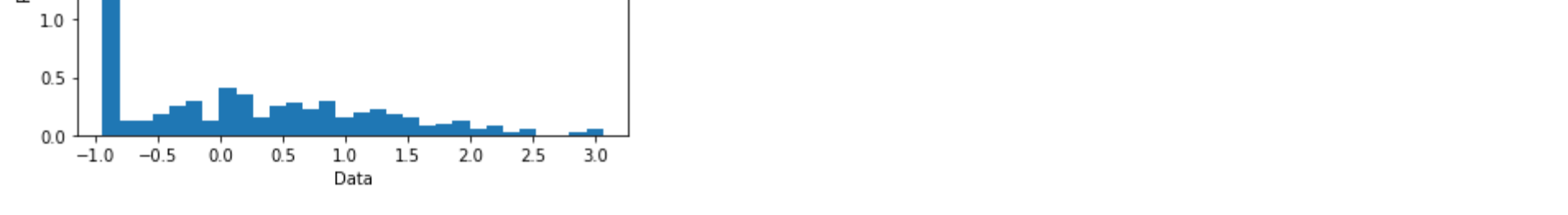


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Top latent variables for predicting rapid eGFR decline with adjustment for clinical variables

No artists with labels found to put in legend. Note that artists whose label start with an underscore are ignored when legend() is called with no argument.



No artists with labels found to put in legend. Note that artists whose label start with an underscore are ignored when legend() is called with no argument.

No LVs are associated with classification of rapid progressors!
No LVs are associated with classification of slow progressors!

Comparison of ROC curves between adjusted and unadjusted models



Association of APRT pathway scores with composite renal outcome

We consider the composite event: Dialysis, Kidney Transplant, 50% eGFR decline, or eGFR<15 ml/min/1.73m². Two patient groups are split along the median APRT pathway score and the significance between the two survival curves is calculated. Finally, the prognostic strength of the binned High/Low category is quantified by C-statistic in a Cox proportional hazard model with adjustment for clinical variables.

Full cohort analysis



Is there any difference in event probability between groups with high or low APRT pathway?

Patients are partitions at the median APRT pathway score into high_APRT and low_APRT groups and come survival curves



Cox Proportional Hazard

Concordance statistic: 0.8613754989253914

| | log hazard ratio | hazard ratio |
|----------------------------|------------------|--------------|
| race_ethnicity_cat2_v3y0=2 | 0.570778 | 1.769644e+00 |
| log2acr | 0.298844 | 1.348300e+00 |
| hemoglobin_a1c_v3y0 | 0.253634 | 1.288700e+00 |
| map_v3y0 | 0.026513 | 1.026868e+00 |
| waist_v3y0 | 0.001877 | 1.001879e+00 |
| age_integer_v3y0 | -0.022382 | 9.778665e-01 |
| egfr_cric_v3y0 | -0.074537 | 9.281731e-01 |
| sex_v3y0=2 | -0.385734 | 6.799511e-01 |
| group=Low_APRT | -0.781791 | 4.576858e-01 |
| race_ethnicity_cat2_v3y0=4 | -14.492598 | 6.080947e-07 |
| race_ethnicity_cat2_v3y0=3 | -15.515763 | 1.826375e-07 |

Normo group analysis



Is there any difference in event probability between groups with high or low APRT pathway?

Patients are partitions at the median APRT pathway score into high_APRT and low_APRT groups and come survival curves



Cox Proportional Hazard

Concordance statistic: 0.9178515007988994

| | log hazard ratio | hazard ratio |
|----------------------------|------------------|--------------|
| hemoglobin_a1c_v3y0 | 1.399658 | 4.053615e+00 |
| map_v3y0 | 0.073505 | 1.076272e+00 |
| age_integer_v3y0 | 0.063644 | 1.066712e+00 |
| waist_v3y0 | 0.047713 | 1.048869e+00 |
| egfr_cric_v3y0 | -0.232334 | 7.926814e-01 |
| log2acr | -0.834036 | 4.342929e-01 |
| race_ethnicity_cat2_v3y0=2 | -1.088853 | 3.362660e-01 |
| sex_v3y0=2 | -1.688430 | 1.848095e-01 |
| group=Low_APRT | -2.650214 | 6.854847e-02 |
| race_ethnicity_cat2_v3y0=4 | -15.682497 | 1.545889e-07 |

Normo+micro group analysis



Is there any difference in event probability between groups with high or low APRT pathway?

Patients are partitions at the median APRT pathway score into high_APRT and low_APRT groups and come survival curves



Cox Proportional Hazard

Concordance statistic: 0.870426474015381

| | log hazard ratio | hazard ratio |
|----------------------------|------------------|--------------|
| hemoglobin_a1c_v3y0 | 0.727909 | 2.070746e+00 |
| sex_v3y0=2 | 0.645626 | 1.907781e+00 |
| log2acr | 0.117556 | 1.124744e+00 |
| age_integer_v3y0 | 0.079374 | 1.082609e+00 |
| map_v3y0 | 0.030089 | 1.030546e+00 |
| waist_v3y0 | 0.007595 | 1.007624e+00 |
| egfr_cric_v3y0 | -0.121025 | 8.860122e-01 |
| race_ethnicity_cat2_v3y0=2 | -0.382402 | 6.822206e-01 |
| group=Low_APRT | -0.746379 | 4.740799e-01 |
| race_ethnicity_cat2_v3y0=3 | -12.580324 | 3.439021e-06 |
| race_ethnicity_cat2_v3y0=4 | -14.611482 | 4.511426e-07 |