Report 2024/12/08

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1 Categorical variables' case proportions

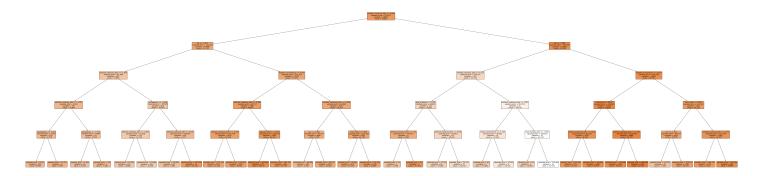
For all 9 categorical variables remaining after manual selection, here are the proportions of cases:

```
Feature: falls_hx
 No: 26714
 Yes: 13847
  Unknown: 2377
Feature: marital_status
  Unmarried: 20703
  Married: 19766
  Unknown: 2469
Feature: depressed adm
  0: 31768
  1: 6529
 Unknown: 4641
Feature: payor_primary
 Medicare FFS: 16063
 Not listed: 14576
  Medicare_Advantage: 12299
Feature: hispanic
  No: 39745
  Yes: 3193
Feature: sex
  male: 22713
  female: 20225
Feature: stroke type
  Ischemic: 35805
 Hemorrhagic: 6486
  Other: 647
Feature: low interest adm
  0: 33620
  1: 4741
  Unknown: 4577
Feature: race
  White: 29020
  Black_or_African_American: 9838
  Unknown: 2413
  Asian: 1321
 American_Indian_or_Alaska_Native: 176
  Multiracial: 89
  Native_Hawaiian_or_Other_Pacific_Islander: 81
```

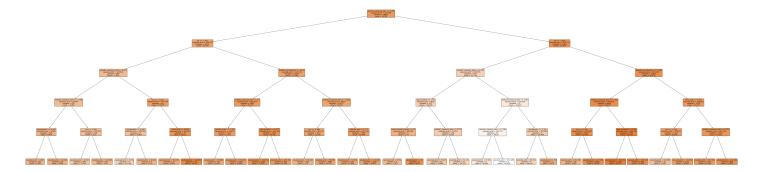
We do not see any drastically low proportion case, except for race, where we follow <u>NINDS</u>'s grouping. It seems we can not reduce these categories any further, especially considering <u>Multiracial</u> is one of the smaller-proportion cases, and grouping it with the other few cases does not make sense logically.

2 Updated RF global summary trees

Selfcare:



Mobility:



3 Updated Lasso regression

Increased Lasso CV search of Alpha's grainularity. Now alpha is searched in

```
alpha_range = [0.001, 0.05, 0.03, 0.01, 0.5, 0.1, 0.5, 1, 5, 10, 50, 100]
```

For selfcare task, the best alpha found by CV is now 0.03.

Following 1-SE rule, for all alpha values that satisfy mean_error <= min_error + min_error_se, the largest is 0.1. Fit a new Lasso model on selfcare task with alpha = 0.1 yields the following results:

```
Best alpha (min error): 0.03
Alpha selected by 1SE rule: 0.1
----- Train Set Results -----
MSE: 346.2007
R<sup>2</sup>: 0.2403
```

```
----- Eval Set Results -----
MSE: 338.3352
R^2: 0.2534
----- Test Set Results -----
MSE: 340.5518
R^2: 0.2417
----- Model Summary: Non-zero Coefficients -----
                           Feature Coefficient
0
              mobility measure adm
                                       6.830357
1
                        ptindweek1
                                       2.158104
2
                        otindweek1
                                       1.740079
                        bims_total
3
                                       1.499827
                    selfcare_prior
4
                                       1.122635
5
             understand verbal adm
                                       1.058634
          marital_status_Unmarried
6
                                       0.807883
7
                        race_White
                                       0.654775
                       slpindweek1
8
                                       0.519224
9
                    mobility prior
                                       0.362948
10
               pain activities adm
                                       0.337819
11
        payor primary Medicare FFS
                                       0.315076
                                       0.203444
12
                               los
          payor primary Not listed
13
                                       0.183014
                        vision adm
14
                                      -0.272099
15
                bowel incontinence
                                      -0.283727
               acute mental change
                                      -0.392702
16
    race Black or African American
17
                                      -0.421941
18
                        ptindweek2
                                      -0.486597
                pressure_ulcer_adm
                                      -0.666926
19
                    health lit adm
                                      -0.765210
20
                      falls_hx_Yes
                                      -0.806571
21
                          sex_male
                                      -0.837267
22
23
                      age_at_admit
                                      -1.625570
              selfcare_measure_adm
                                      -2.542324
24
              bladder incontinence
                                      -3.203255
25
```

Now number of variables reduce from 49 to 26.

For the mobility task, 1-SE rule also yields alpha = 0.1, and the results are as follows:

```
Best alpha (min error): 0.01
Alpha selected by 1SE rule: 0.1
------ Train Set Results -----
MSE: 344.2645
R<sup>2</sup>: 0.1851
```

```
----- Eval Set Results -----
MSE: 336.2865
R^2: 0.2023
----- Test Set Results -----
MSE: 334.4508
R^2: 0.1999
----- Model Summary: Non-zero Coefficients -----
                           Feature Coefficient
                        ptindweek1
                                       2.238204
0
1
              selfcare measure adm
                                       2.041735
2
              mobility_measure_adm
                                       1.960027
3
                        otindweek1
                                       1.356835
4
                       slpindweek1
                                       1.273856
5
                    selfcare_prior
                                       0.906201
6
          payor_primary_Not_listed
                                       0.850155
7
                        bims_total
                                       0.767928
8
                    mobility prior
                                       0.682834
9
             understand verbal adm
                                       0.626199
                        race White
10
                                       0.605145
          marital status Unmarried
                                       0.351502
11
                                       0.221773
12
13
               pain activities adm
                                       0.184571
14
                       slpindweek2
                                       0.000979
15
                      pvd comorbid
                                      -0.121013
    race Black or African American
                                      -0.304452
16
                        otindweek2
                                      -0.304661
17
                bowel incontinence
                                      -0.423265
18
19
                        vision_adm
                                      -0.448847
20
                        ptindweek2
                                      -0.530227
21
                    health lit adm
                                      -0.667423
                pressure_ulcer_adm
22
                                      -0.821829
23
                      age_at_admit
                                      -1.428901
                      falls_hx_Yes
24
                                      -1.470242
              bladder incontinence
                                      -2.615774
25
```

4 Updated modeling with interaction terms

Now, before creating interaction terms, OT/PT/SLP are combined for week1 and week2 respectively, hence only two combined variables (sumindweek1 and sumindweek2) will be interacting with the rest of the variables.

After adding interaction terms to the data, rerun the forementioned Lasso experiments with 1-SE rule, the results are as follows:

Selfcare:

```
Best alpha (min error): 0.03
Alpha selected by 1SE rule: 0.1
----- Train Set Results -----
MSE: 327.2569
R<sup>2</sup>: 0.2818
----- Eval Set Results -----
MSE: 322.7168
R^2: 0.2879
----- Test Set Results -----
MSE: 321.1996
R^2: 0.2848
----- Model Summary: Non-zero Coefficients -----
                                 Feature Coefficient
0
                    mobility_measure_adm
                                             6.303209
1
                              bims_total
                                             1.681771
2
                   understand verbal adm
                                             1.157852
                          selfcare_prior
3
                                             1.115792
                marital status Unmarried
4
                                             0.726547
5
                             sumindweek1
                                             0.578239
6
      sumindweek1_x_mobility_measure_adm
                                             0.525772
      sumindweek2_x_bladder_incontinence
7
                                             0.462465
8
                                             0.430909
9
                          mobility prior
                                             0.414889
                              race White
10
                                             0.394299
11
       sumindweek2 x acute mental change
                                             0.321403
      sumindweek1 x selfcare measure adm
12
                                             0.287278
                sumindweek1_x_bims_total
13
                                             0.226504
                     pain activities adm
14
                                             0.213853
15
     sumindweek1_x_understand_verbal_adm
                                              0.203225
16
        sumindweek2_x_pressure_ulcer_adm
                                             0.162224
17
                  sumindweek1 x sex male
                                              0.150836
              sumindweek2_x_falls_hx_Yes
18
                                              0.133327
            sumindweek2_x_health_lit_adm
19
                                             0.126407
    sumindweek1_x_marital_status_Unknown
                                              0.116839
20
21
                          expression adm
                                              0.058529
22
            sumindweek1 x expression adm
                                             0.052702
23
              payor primary Medicare FFS
                                             0.052049
            sumindweek1 x mobility prior
24
                                             0.045845
25
       sumindweek2 x pain activities adm
                                             0.036738
      sumindweek2 x selfcare measure adm
26
                                             0.032978
27
                  sumindweek2 x sex male
                                             0.022398
28
            sumindweek1 x selfcare prior
                                             0.017972
            sumindweek2 x selfcare prior
                                             0.010290
29
30
               sumindweek2 x sumindweek1
                                             -0.002467
31
                sumindweek1_x_vision_adm
                                             -0.004501
```

```
32
          sumindweek2_x_socisolation_adm
                                              -0.015323
33
          sumindweek1 x socisolation adm
                                              -0.041551
            sumindweek1_x_health_lit_adm
34
                                              -0.053187
              sumindweek2_x_age_at_admit
35
                                              -0.118749
              sumindweek1 x age at admit
                                              -0.125633
36
37
                sumindweek2 x race White
                                              -0.168922
38
                              sumindweek2
                                              -0.187202
39
      sumindweek1_x_bladder_incontinence
                                              -0.187727
40
                               vision adm
                                              -0.301072
41
      sumindweek2 x stroke type Ischemic
                                              -0.304803
42
                sumindweek2 x bims total
                                              -0.346274
43
               sumindweek1 x sumindweek2
                                              -0.353788
44
     sumindweek2\_x\_understand\_verbal\_adm
                                              -0.382435
45
                       bowel incontinence
                                              -0.558118
46
      sumindweek2_x_mobility_measure_adm
                                              -0.603572
47
                             falls_hx_Yes
                                              -0.650124
48
          race_Black_or_African_American
                                              -0.719531
49
                                 sex_male
                                              -0.736162
                      acute mental change
50
                                              -0.753878
51
                           health lit adm
                                              -0.808181
52
                       pressure_ulcer_adm
                                              -0.843482
                        sumindweek2_x_los
                                              -0.996046
53
54
                             age at admit
                                              -1.687008
55
                     selfcare measure adm
                                              -2.586528
                    bladder incontinence
                                              -3.211919
56
```

Mobility:

```
Best alpha (min error): 0.03
Alpha selected by 1SE rule: 0.1
----- Train Set Results -----
MSE: 325.2945
R<sup>2</sup>: 0.2300
----- Eval Set Results -----
MSE: 321.9947
R^2: 0.2362
----- Test Set Results -----
MSE: 316.1936
R^2: 0.2436
----- Model Summary: Non-zero Coefficients -----
                                   Feature Coefficient
0
                      selfcare measure adm
                                             1.882533
1
                      mobility_measure_adm
                                              1.461744
```

Selfcare_prior
4 sumindweekl_x_mobility_measure_adm 0.770175 5 mobility_prior 0.768207 6 payor_primary_Not_listed 0.676640 7 understand_verbal_adm 0.664408 8 sumindweekl 0.632398 9 sumindweek2_x_bladder_incontinence 0.393663 10 sumindweek2_x_acute_mental_change 0.358847 11 marital_status_Unmarried 0.299967 12 sumindweek2_x_falls_hx_Yes 0.248308 13 race_White 0.217153 14 los 0.175723 15 sumindweek1_x_selfcare_measure_adm 0.159483 16 sumindweek1_x_selfcare_measure_adm 0.136549 17 sumindweek2_x_marital_status_Unknown 0.145298 18 sumindweek2_x_mestand_verbal_adm 0.136549 19 sumindweek2_x_mestatus_Unknown 0.136549 20 sumindweek1_x_bims_total 0.10202 21 sumindweek1_x_bims_total 0.102904 22 sumindweek2_x_selfcare_measure_adm 0.016671
5 mobility_prior 0.768207 6 payor_primary_Not_listed 0.676640 7 understand_verbal_adm 0.664408 8 sumindweek1 0.632398 9 sumindweek2_x_bladder_incontinence 0.339863 10 sumindweek2_x_acute_mental_change 0.358847 11 marital_status_Unmarried 0.299967 12 sumindweek2_x_falls_hx_Yes 0.248308 13 race_white 0.217153 14 los 0.175723 15 sumindweek1_x_selfcare_measure_adm 0.159483 16 sumindweek1_x_selfcare_measure_adm 0.159483 17 sumindweek2_x_marital_status_Unknown 0.145298 18 sumindweek2_x_pressure_ulcer_adm 0.129064 19 sumindweek2_x_pressure_ulcer_adm 0.129064 20 sumindweek1_x_bims_total 0.108379 21 sumindweek1_x_mobility_prior 0.094699 22 sumindweek1_x_bims_total 0.053893 23 sumindweek2_x_selfcare_measure_adm 0.045739
6 payor_primary_Not_listed 7 understand_verbal_adm 8 sumindweek1 0.632398 9 sumindweek2_x_bladder_incontinence 10 sumindweek2_x_acute_mental_change 11 marital_status_Unmarried 12 sumindweek2_x_falls_hx_yes 13 race_White 14 los 0.175723 15 sumindweek1_x_selfcare_measure_adm 16 sumindweek1_x_selfcare_measure_adm 17 sumindweek1_x_understand_verbal_adm 18 sumindweek2_x_pressure_ulcer_adm 19 sumindweek2_x_pressure_ulcer_adm 20 sumindweek1_x_sumindweek1_x_selfcare_measure_2 21 sumindweek2_x_nobility_prior 22 sumindweek1_x_mobility_prior 23 sumindweek1_x_mobility_prior 24 sumindweek2_x_age_at_admit 25 sumindweek2_x_age_at_admit 26 sumindweek2_x_selfcare_measure_adm 27 sumindweek2_x_selfcare_measure_adm 28 sumindweek2_x_age_at_admit 29 sumindweek2_x_age_at_admit 20 sumindweek2_x_age_at_admit 21 sumindweek2_x_age_at_admit 22 sumindweek2_x_age_at_admit 23 sumindweek2_x_sumindweek1 24 pain_activities_adm 25 sumindweek2_x_sumindme 26 sumindweek2_x_sumindme 27 sumindweek2_x_sumindme 28 sumindweek2_x_vision_adm 29 sumindweek2_x_vision_adm 20 sumindweek2_x_vision_adm 21 sumindweek2_x_pain_sleep_adm 22 sumindweek2_x_expression_adm 23 sumindweek2_x_expression_adm 24 sumindweek2_x_expression_adm 25 sumindweek1_x_bowel_incontinence 26 sumindweek2_x_sumindweek1 27 sumindweek2_x_sumindweek1 28 sumindweek2_x_sumindmeek1 29 sumindweek2_x_rexpression_adm 30 sumindweek2_x_rexpression_adm 31 sumindweek2_x_rexpression_adm 32 sumindweek2_x_rexpression_adm 33 sumindweek1_x_bowel_incontinence 34 sumindweek2_x_sumindweek1 35 sumindweek1_x_learing_adm 36 -0.004504 37 sumindweek2_x_sumindweek1 38 sumindweek2_x_socisolation_adm 39 sumindweek1_x_learing_adm 40 -0.075976 41 sumindweek2_x_socisolation_adm 52 sumindweek2_x_socisolation_adm 53 sumindweek1_x_learing_adm 60.0759858 61 sumindweek2_x_socisolation_adm 60.0759958 61 s
7 understand_verbal_adm 0.664408 8 sumindweek1 0.632398 9 sumindweek2_x_bladder_incontinence 0.393663 10 sumindweek2_x_acute_mental_change 0.358847 11 marital_status_Unmarried 0.299967 12 sumindweek2_x_falls_hx_Yes 0.248308 13 race_White 0.217153 14 los 0.175723 15 sumindweek1_x_selfcare_measure_adm 0.170146 16 sumindweek1_x_selfcare_measure_adm 0.136549 17 sumindweek2_x_marital_status_Unknown 0.145298 18 sumindweek2_x_pressure_ulcer_adm 0.136549 19 sumindweek2_x_pressure_ulcer_adm 0.136549 19 sumindweek2_x_pressure_ulcer_adm 0.129064 20 sumindweek1_x_source_adm 0.108379 21 sumindweek1_x_source_adm 0.109379 22 sumindweek1_x_bims_total 0.008384 24 pain_activities_adm 0.053893 25 sumindweek1_x_selfcare_measure_adm 0.03405
8 sumindweek1 0.632398 9 sumindweek2_x_bladder_incontinence 0.393663 10 sumindweek2_x_acute_mental_change 0.358847 11 marital_status_Unmarried 0.299967 12 sumindweek2_x_falls_hx_Yes 0.248308 13 race_white 0.217153 14 los 0.175723 15 sumindweek1_x_selfcare_measure_adm 0.159483 17 sumindweek1_x_selfcare_measure_adm 0.159483 18 sumindweek2_x_marital_status_Unknown 0.145298 18 sumindweek2_x_pressure_ulcer_adm 0.129064 20 sumindweek2_x_pressure_ulcer_adm 0.129064 20 sumindweek1_x_bims_total 0.108379 21 sumindweek2_x_pressure_adm 0.1003379 22 sumindweek1_x_bims_total 0.108379 23 sumindweek2_x_seg_at_admit 0.068384 24 pain_activities_adm 0.053893 25 sumindweek2_x_selfcare_measure_adm 0.034050 27 sumindweek2_x_selfcare_measure_adm
9 sumindweek2_x_bladder_incontinence 0.393663 10 sumindweek2_x_acute_mental_change 0.358847 11 marital_status_Unmarried 0.299967 12 sumindweek2_x_falls_hx_Yes 0.248308 13 race_White 0.2175723 15 sumindweek2_x_health_lit_adm 0.170146 16 sumindweek1_x_selfcare_measure_adm 0.159483 17 sumindweek2_x_marital_status_Unknown 0.145298 18 sumindweek1_x_understand_verbal_adm 0.136549 19 sumindweek2_x_pressure_ulcer_adm 0.129064 20 sumindweek1_x_bims_total 0.108379 21 sumindweek1_x_bims_total 0.108379 22 sumindweek2_x_age_at_admit 0.068384 24 pain_activities_adm 0.053893 25 sumindweek1_x_hispanic_Yes 0.044573 26 sumindweek2_x_selfcare_measure_adm 0.034050 27 sumindweek2_x_selfcare_measure_adm 0.034050 28 sumindweek1_x_expression_adm 0.016671 29 su
10 sumindweek2_x_acute_mental_change 0.358847 11 marital_status_Unmarried 0.299967 12 sumindweek2_x_falls_hx_Yes 0.248308 13 race_White 0.217153 14 los 0.175723 15 sumindweek1_x_selfcare_measure_adm 0.170146 16 sumindweek1_x_selfcare_measure_adm 0.159483 17 sumindweek2_x_marital_status_Unknown 0.145298 18 sumindweek1_x_understand_verbal_adm 0.136549 19 sumindweek2_x_pressure_ulcer_adm 0.129064 20 sumindweek1_x_bims_total 0.108379 21 sumindweek1_x_bims_total 0.108379 22 sumindweek2_x_age_at_admit 0.068384 24 pain_activities_adm 0.053893 25 sumindweek1_x_hispanic_Yes 0.044573 26 sumindweek2_x_selfcare_measure_adm 0.034050 27 sumindweek2_x_selfcare_measure_adm 0.034050 28 sumindweek2_x_selfcare_measure_adm 0.016671 29 sumindweek2_x_selfcar
11 marital_status_Unmarried 0.299967 12 sumindweek2_x_falls_hx_Yes 0.248308 13 race_White 0.217153 14 los 0.175723 15 sumindweek1_x_selfcare_measure_adm 0.159483 16 sumindweek2_x_marital_status_Unknown 0.145298 18 sumindweek1_x_understand_verbal_adm 0.136549 19 sumindweek2_x_pressure_ulcer_adm 0.129064 20 sumindweek1_x_bims_total 0.108379 21 sumindweek2_x_pressure_ulcer_adm 0.108379 22 sumindweek2_x_age_at_admit 0.0648384 24 pain_activities_adm 0.053893 25 sumindweek2_x_age_at_admit 0.064873 26 sumindweek2_x_selfcare_measure_adm 0.034050 27 sumindweek2_x_selfcare_measure_adm 0.034050 28 sumindweek2_x_vision_adm 0.016671 29 sumindweek2_x_vision_adm 0.016671 29 sumindweek2_x_sumindweek1 0.0013052 30 sumindweek2_x_sumindweek1
12 sumindweek2_x_falls_hx_Yes 0.248308 13 race_White 0.217153 14 los 0.175723 15 sumindweek1_x_selfcare_measure_adm 0.170146 16 sumindweek2_x_marital_status_Unknown 0.145298 17 sumindweek2_x_marital_status_Unknown 0.136549 18 sumindweek2_x_pressure_ulcer_adm 0.129064 20 sumindweek1_x_bims_total 0.108379 21 sumindweek1_x_bims_total 0.108379 22 sumindweek1_x_mobility_prior 0.094699 23 sumindweek2_x_age_at_admit 0.068384 24 pain_activities_adm 0.053893 25 sumindweek1_x_hispanic_Yes 0.044573 26 sumindweek2_x_selfcare_measure_adm 0.034050 27 sumindweek2_x_selfcare_measure_adm 0.034050 28 sumindweek2_x_selfcare_measure_adm 0.034050 29 sumindweek2_x_selfcare_measure_adm 0.034050 20 sumindweek2_x_selfcare_measure_adm 0.016671 29 sumindweek1_x_s
13 race_White 0.217153 14 los 0.175723 15 sumindweek2_x_health_lit_adm 0.170146 16 sumindweek1_x_selfcare_measure_adm 0.159483 17 sumindweek1_x_understand_verbal_adm 0.136549 18 sumindweek1_x_understand_verbal_adm 0.129064 19 sumindweek2_x_pressure_ulcer_adm 0.129064 20 sumindweek1_x_bims_total 0.108379 21 sumindweek1_x_bims_total 0.108379 22 sumindweek2_x_age_at_admit 0.068384 24 pain_activities_adm 0.053893 25 sumindweek2_x_age_at_admit 0.068384 24 pain_activities_adm 0.034050 25 sumindweek2_x_age_tcar_measure_adm 0.034050 26 sumindweek2_x_selfcare_measure_adm 0.034050 27 sumindweek2_x_selfcare_measure_adm 0.034050 28 sumindweek2_x_vexpression_adm 0.016671 29 sumindweek2_x_selfcare_measure_adm 0.031052 30 sumindweek2_x_selfcare_measur
14 sumindweek2_x_health_lit_adm 0.175723 15 sumindweek1_x_selfcare_measure_adm 0.170146 16 sumindweek1_x_selfcare_measure_adm 0.159483 17 sumindweek2_x_marital_status_Unknown 0.145298 18 sumindweek1_x_understand_verbal_adm 0.136549 19 sumindweek2_x_pressure_ulcer_adm 0.129064 20 sumindweek1_x_bims_total 0.108379 21 sumindweek1_x_bims_total 0.108379 22 sumindweek1_x_mobility_prior 0.094699 23 sumindweek2_x_age_at_admit 0.068384 24 pain_activities_adm 0.053893 25 sumindweek1_x_hispanic_Yes 0.044573 26 sumindweek2_x_selfcare_measure_adm 0.034050 27 sumindweek2_x_selfcare_measure_adm 0.034050 28 sumindweek2_x_vexpression_adm 0.016671 29 sumindweek2_x_vexpression_adm 0.013657 30 sumindweek2_x_expression_adm 0.014667 31 sumindweek2_x_sumindweek1 -0.001782 32<
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40 acute_mental_change -0.078821 41 sumindweek2_x_payor_primary_Medicare_FFS -0.102238 42 sumindweek1_x_bladder_incontinence -0.135312 43 sumindweek1_x_falls_hx_Yes -0.160446 44 sumindweek1_x_age_at_admit -0.220517 45 sumindweek2_x_bims_total -0.276977 46 sumindweek1_x_sumindweek2 -0.321876 47 sumindweek2_x_understand_verbal_adm -0.380237 48 sumindweek2_x_stroke_type_Ischemic -0.420057 49 vision_adm -0.487702
41 sumindweek2_x_payor_primary_Medicare_FFS -0.102238 42 sumindweek1_x_bladder_incontinence -0.135312 43 sumindweek1_x_falls_hx_Yes -0.160446 44 sumindweek1_x_age_at_admit -0.220517 45 sumindweek2_x_bims_total -0.276977 46 sumindweek1_x_sumindweek2 -0.321876 47 sumindweek2_x_understand_verbal_adm -0.380237 48 sumindweek2_x_stroke_type_Ischemic -0.420057 49 vision_adm -0.487702
42 sumindweek1_x_bladder_incontinence -0.135312 43 sumindweek1_x_falls_hx_Yes -0.160446 44 sumindweek1_x_age_at_admit -0.220517 45 sumindweek2_x_bims_total -0.276977 46 sumindweek1_x_sumindweek2 -0.321876 47 sumindweek2_x_understand_verbal_adm -0.380237 48 sumindweek2_x_stroke_type_Ischemic -0.420057 49 vision_adm -0.487702
43 sumindweek1_x_falls_hx_Yes -0.160446 44 sumindweek1_x_age_at_admit -0.220517 45 sumindweek2_x_bims_total -0.276977 46 sumindweek1_x_sumindweek2 -0.321876 47 sumindweek2_x_understand_verbal_adm -0.380237 48 sumindweek2_x_stroke_type_Ischemic -0.420057 49 vision_adm -0.487702
44 sumindweek1_x_age_at_admit -0.220517 45 sumindweek2_x_bims_total -0.276977 46 sumindweek1_x_sumindweek2 -0.321876 47 sumindweek2_x_understand_verbal_adm -0.380237 48 sumindweek2_x_stroke_type_Ischemic -0.420057 49 vision_adm -0.487702
sumindweek2_x_bims_total -0.276977 sumindweek1_x_sumindweek2 -0.321876 sumindweek2_x_understand_verbal_adm -0.380237 sumindweek2_x_stroke_type_Ischemic -0.420057 sumindweek2_x_stroke_type_Ischemic -0.487702
sumindweek1_x_sumindweek2 -0.321876 sumindweek2_x_understand_verbal_adm -0.380237 sumindweek2_x_stroke_type_Ischemic -0.420057 vision_adm -0.487702
sumindweek2_x_understand_verbal_adm -0.380237 sumindweek2_x_stroke_type_Ischemic -0.420057 vision_adm -0.487702
sumindweek2_x_stroke_type_Ischemic -0.420057 vision_adm -0.487702
49 vision_adm -0.487702
_
50 race_Black_or_African_American -0.625619

```
51
                             health_lit_adm
                                              -0.701054
52
                         bowel_incontinence
                                              -0.707825
                          sumindweek2_x_los
53
                                              -0.761137
          sumindweek2_x_mobility_measure_adm
54
                                              -0.820422
55
                         pressure_ulcer_adm
                                              -0.915766
                               falls_hx_Yes
56
                                              -1.365534
57
                               age_at_admit
                                              -1.512892
                       bladder incontinence
58
                                              -2.650849
```

We've managed to reduce the number of variables (including interaction terms) down to under 60, while keeping similar predictive power to our previous models.

5 Correlation matrix

Binary variables are removed, and only correlation absolute value >= 0.1 is highlighted:

Correlation Matrix (Filtered by Threshold U.1)

