# **Follow-up Summary 10/23~11/05**

Dingyi Nie

### **1 Feature Statistics**

Numeric features (also include: binary/boolean features, ranked integer features)

	count	mean	std	min	25%	50%	75%	max
na_ratio								
selfcare_measure_delta 0	42938	19.8382	21.3123	-80.99	5.6	12.63	38.93	80.99
mobility_measure_delta 0	42938	19.5748	20.5332	-93.52	7.71	14.65	27.95	93.52
arthritis 0	42938	0.0052	0.0719	0	0	0	0	1
heightinches 0.0008	42905	66.6716	4.4265	1	64	67	70	99
weightpounds 0.0008	42902	178.891	47.4143	2	146	173	205	634
ptindweek1 0	42938	334.862	98.0311	0	275	330	405	600
ptconweek1 0	42938	4.4405	21.6056	0	0	0	0	540

ptgrpweek1 0	42938	10.9668	32.3649	0	0	0	0	300
ptcoweek1	42938	3.2496	22.7905	0	0	0	0	568
otindweek1	42938	343.73	93.4879	0	300	345	407	600
otconweek1	42938	3.4943	18.9606	0	0	0	0	420
0 otgrpweek1	42938	11.5631	32.1212	0	0	0	0	330
0 otcoweek1 0	42938	3.2965	22.7013	0	0	0	0	460
slpindweek1	42938	206.407	97.2304	0	143	225	283	590
0 slpconweek1 0	42938	0.4128	4.7326	0	0	0	0	180
slpgrpweek1	42938	4.1424	19.1771	0	0	0	0	300
slpcoweek1	42938	0.4671	5.4948	0	0	0	0	226
ptindweek2	42938	267.265	153.442	0	165	300	379	600
0 ptconweek2	42938	4.4481	21.8238	0	0	0	0	510
0 ptgrpweek2	42938	12.4134	39.2545	0	0	0	0	480
0 ptcoweek2	42938	3.5696	26.1774	0	0	0	0	525
0 otindweek2 0	42938	267.132	150.434	0	180	300	370	600

otconweek2	42938	3.7039	20.0839	0	0	0	0	525
0 otgrpweek2	42938	12.7872	39.3709	0	0	0	0	470
0 otcoweek2	42938	3.6605	26.4232	0	0	0	0	525
0	.2330	310003	201.232		Ü			323
slpindweek2 0	42938	161.121	125.043	0	30	163	270	600
slpconweek2	42938	0.585	6.2071	0	0	0	0	180
slpgrpweek2	42938	5.6276	25.5503	0	0	0	0	420
slpcoweek2	42938	0.6321	7.3595	0	0	0	0	300
<pre>0 hearing_adm</pre>	42938	0.2989	0.6323	0	0	0	0	3
0 vision_adm	42938	0.452	0.7622	0	0	0	1	4
<pre>0 health_lit_adm</pre>	39485	1.0977	1.2865	0	0	1	2	4
0.0804 expression_adm	42938	3.1967	0.9095	1	3	3	4	4
0 understand_verbal_adm	42938	3.356	0.8026	1	3	4	4	4
0 conduct_bims	42938	0.9106	0.2853	0	1	1	1	1
0 bims_total 0.1085	38280	12.0244	3.6124	0	10	13	15	15
conduct_sams	42938	0.1085	0.311	0	0	0	0	1

sams_season	42938	0.9085	0.2883	0	1	1	1	1
0 sams_room	42938	0.8992	0.301	0	1	1	1	1
0 sams_names	42938	0.9037	0.2949	0	1	1	1	1
0 sams_hosp	42938	0.9325	0.2508	0	1	1	1	1
0 acute_mental_change	42938	0.2745	0.4462	0	0	0	1	1
0		0.6219			0	0	0	27
mood_total_adm 0.1076	38316		2.496	0				
socisolation_adm 0.0964	38800	0.4372	0.7723	0	0	0	1	4
selfcare_prior 0.0064	42663	2.8783	0.3449	1	3	3	3	3
mobility_prior 0.0145	42316	2.9242	0.2888	1	3	3	3	3
stairs_prior 0.0927	38956	2.89	0.3479	1	3	3	3	3
func_cog_prior	42309	2.8551	0.387	1	3	3	3	3
0.0146 wc_manual_prior	42938	0.0578	0.2333	0	0	0	0	1
0 wc_motor_prior	42938	0.0134	0.1149	0	0	0	0	1
<pre>0 mechlift_prior</pre>	42938	0.0046	0.0674	0	0	0	0	1
0 walker_prior	42938	0.2073	0.4054	0	0	0	0	1
0								

orth_pros_prior 0	42938	0.0084	0.0914	0	0	0	0	1
selfcare_measure_adm 0	42938	40.3364	7.726	19.65	36.97	41.35	44.77	100.64
mobility_measure_adm 0	42938	24.1633	9.0085	4.86	19.16	24.31	30.29	98.38
wc_user	42938	0.7043	0.4564	0	0	1	1	1
wheel50ft_adm	24831	2.5048	1.3402	1	1	3	4	7
0.4217 wheel150ft_adm	21835	2.2113	1.3576	1	1	2	3	7
0.4915 bladder_incontinence	40423	1.3837	1.5546	0	0	0	3	5
0.0586 bowel_incontinence 0.1363	37086	0.8019	1.1674	0	0	0	2	3
pvd_comorbid	42938	0.0598	0.237	0	0	0	0	1
0 diabetes_comorbid	42938	0.4126	0.4923	0	0	0	1	1
0 pain_sleep_adm	42938	1.4974	1.9336	0	0	1	2	8
<pre>pain_therapy_adm</pre>	30695	1.8533	2.1868	0	1	1	2	8
0.2851 pain_activities_adm	30695	2.1559	2.0901	1	1	1	2	8
0.2851 nutrition_parenteral_adm	42938	0.0059	0.0767	0	0	0	0	1
<pre>0   nutrition_tube_adm 0</pre>	42938	0.0759	0.2648	0	0	0	0	1

<pre>nutrition_mech_diet_adm 0</pre>	42938	0.3453	0.4755	0	0	0	1	1
nutrition_ther_diet_adm 0	42938	0.564	0.4959	0	0	1	1	1
stage1_pu_adm 0.8926	4612	0.4367	0.7326	0	0	0	1	5
stage2_pu_adm 0.8925	4614	0.3414	0.5862	0	0	0	1	6
stage3_pu_adm 0.8925	4614	0.0956	0.3462	0	0	0	0	5
stage4_pu_adm 0.8925	4614	0.0184	0.1512	0	0	0	0	3
unstageable_dressing_pu_adm 0.8925	4614	0.005	0.0791	0	0	0	0	2
unstageable_slough_pu_adm 0.8925	4614	0.1938	0.5383	0	0	0	0	9
unstageable_deep_pu_adm 0.8925	4614	0.5152	0.9242	0	0	0	1	9
antipsychotic_taking_adm 0	42938	0.0898	0.2859	0	0	0	0	1
antipsychotic_ind_adm 0	42938	0.0859	0.2802	0	0	0	0	1
anticoagulant_taking_adm 0	42938	0.7267	0.4457	0	0	1	1	1
anticoagulant_ind_adm 0	42938	0.711	0.4533	0	0	1	1	1
antibiotic_taking_adm 0	42938	0.163	0.3694	0	0	0	0	1
antibiotic_ind_adm 0	42938	0.1594	0.366	0	0	0	0	1

opioid_taking_adm 0	42938	0.2125	0.4091	0	0	0	0	1
opioid_ind_adm 0	42938	0.2097	0.4071	0	0	0	0	1
<pre>antiplatelet_taking_adm 0</pre>	42938	0.6605	0.4735	0	0	1	1	1
<pre>antiplatelet_ind_adm 0</pre>	42938	0.6351	0.4814	0	0	1	1	1
<pre>hypoglycemic_taking_adm 0</pre>	42938	0.3917	0.4881	0	0	0	1	1
<pre>hypoglycemic_ind_adm 0</pre>	42938	0.3815	0.4858	0	0	0	1	1
med_follow_up 0.8951	4503	0.9869	0.1137	0	1	1	1	1
chemo_adm 0	42938	0.0088	0.0935	0	0	0	0	1
chemo_iv_adm 0	42938	0.0006	0.0246	0	0	0	0	1
chemo_oral_adm 0	42938	0.0078	0.0877	0	0	0	0	1
<pre>chemo_other_adm 0</pre>	42938	0.0006	0.0241	0	0	0	0	1
radiation_adm 0	42938	0.0006	0.0241	0	0	0	0	1
oxygen_adm 0	42938	0.1434	0.3505	0	0	0	0	1
oxygen_cont_adm 0	42938	0.0609	0.2392	0	0	0	0	1
oxygen_int_adm 0	42938	0.0878	0.2829	0	0	0	0	1

oxygen_high_adm 0	42938	0.0024	0.0492	0	0	0	0	1
suctioning_adm 0	42938	0.0169	0.1288	0	0	0	0	1
<pre>suctioning_sched_adm 0</pre>	42938	0.0014	0.0367	0	0	0	0	1
<pre>suctioning_asneeded_adm 0</pre>	42938	0.016	0.1253	0	0	0	0	1
trach_adm 0	42938	0.0135	0.1155	0	0	0	0	1
vent_invasive_adm 0	42938	0.0005	0.0231	0	0	0	0	1
vent_noninvasive_adm 0	42938	0.0457	0.2088	0	0	0	0	1
vent_bipap_adm 0	42938	0.0063	0.0793	0	0	0	0	1
vent_cpap_adm 0	42938	0.0397	0.1953	0	0	0	0	1
meds_iv_adm 0	42938	0.109	0.3116	0	0	0	0	1
meds_iv_vasoactive_adm 0	42938	0.0065	0.0802	0	0	0	0	1
meds_iv_antibiotic_adm 0	42938	0.0397	0.1952	0	0	0	0	1
meds_iv_anticoagulant_adm 0	42938	0.0046	0.0676	0	0	0	0	1
meds_iv_other_adm 0	42938	0.0754	0.2641	0	0	0	0	1
transfusions_adm 0	42938	0.002	0.0444	0	0	0	0	1

dialysis_adm 0	42938	0.0213	0.1443	0	0	0	0	1	
hemodialysis_adm 0	42938	0.0187	0.1356	0	0	0	0	1	
peritoneal_dialysis_adm	42938	0.0026	0.0512	0	0	0	0	1	
0 iv_access_adm	42938	0.1986	0.3989	0	0	0	0	1	
<pre>0   iv_access_periph_adm</pre>	42938	0.1505	0.3576	0	0	0	0	1	
0 iv_access_mid_adm	42938	0.0173	0.1302	0	0	0	0	1	
0 iv_access_cent_adm	42938	0.037	0.1888	0	0	0	0	1	
0 age_at_admit	42938	68.7322	13.4544	1	61	70	79	90	
0 los	42938	16.1965	9.538	1	10	14	21	337	
0 ric	42938	1	0	1	1	1	1	1	
0 cmg	42938	104.108	1.604	101	103	104	106	106	
0									

### Categorical features:

	unique_values	mode	mode_ratio	unknown_ratio
falls_hx	3	No	0.6222	0.0554
drug_regimen_review	3	No	0.8874	0
hispanic	2	No	0.9256	0
prior_surgery	3	No	0.7511	0.0352

wc150_type	3	manual	0.7013	0.2957
disorganized_adm	3	Not_present	0.8111	0
race	8	White	0.6739	0.0599
inattention_adm	3	Not_present	0.7495	0
wc50_type	3	manual	0.7014	0.2957
admit_from	3	Short-term_hospital	0.9403	0
sex	2	male	0.529	0
prehospital_living	2	Home	0.9916	0
language	2	English	0.9433	0
payor_primary	3	Medicare_FFS	0.3741	0
marital_status	3	Unmarried	0.4822	0.0575
admitclass	4	Initial	0.8673	0.0881
transport_lack	3	No	0.9172	0.0485
tier	4	3	0.5353	0.4077
altered_adm	3	Not_present	0.9268	0

#### **Statistics-Based Feature Selection**

Filter out these features with bad statistics:

- 1. numeric features with a na\_ratio > 0.5
- 2. numeric features with a std < 0.1
- 3. categorical features with a mode\_ratio > 0.95

Remaining # features: 141 -> 114

```
# of train samples: 28625
# of eval samples: 7156
# of test samples: 7157
# of valid selfcare train samples: 28625
```

```
# of valid selfcare eval samples: 7156
# of valid selfcare test samples: 7157
# of valid mobility train samples: 28625
# of valid mobility eval samples: 7156
# of valid mobility test samples: 7157
```

total # of features: 115

	ı		
Index	Name		   # of NaNs   
0	selfcare_measure_delta		
1	mobility_measure_delta	float64	0
2	sex	object	
3	marital_status	object	0
4	admitclass	object	0
5	admit_from	object +	0
6	payor_primary	object	0
7	heightinches	'   float64 +	33
8	weightpounds	float64 	36
9	ptindweek1	float64 	0
10	ptconweek1	float64	
			. — — — — — — — — — — — — — — — — — — —

	11	ptgrpweek1	float64	0
	12	ptcoweek1	float64	0
		otindweek1	float64	0
	14	otconweek1	float64	0
	15		float64	0
	16		float64	0
	17	•	float64	
	18	slpconweek1	float64	0
	19	•	float64	0
	'	•	float64	0
			float64	0
	22		float64	0
			float64	0
	24	•	float64	·
	25	otindweek2	float64	0
1	26	otconweek2	float64	0

27	otgrpweek2	float64	0
28	otcoweek2	float64	0
29	slpindweek2	float64	0
30	slpconweek2	float64	0
31	slpgrpweek2	float64	0
32	slpcoweek2	float64	0
33	hispanic	object	0
34	race	object	0
35	language	object	0
36	transport_lack	object	0
37	hearing_adm	Int64	0
38	vision_adm	Int64	0
39	health_lit_adm	Int64	3453
40	expression_adm	Int64	0
41	understand_verbal_adm	Int64	0
T			<del>-</del>

	42	conduct_bims	int64	0
	43	bims_total	Int64	4658
	44	conduct_sams	int64	0
	45	sams_season	int64	0
	46	sams_room	int64	0
	47	sams_names	int64	0
	48	sams_hosp	int64	0
	49		int64	0
	50	inattention_adm	object	0
	51	disorganized_adm	object	0
	52	altered_adm	object	0
	53	mood_total_adm	Int64	4622
	54	socisolation_adm	Int64	4138
	   55	selfcare_prior	Int64	275
	 56	mobility_prior	Int64	622
	57	stairs_prior	Int64	3982

1			
58	func_cog_prior	Int64	629
59	wc_manual_prior	int64	0
60	wc_motor_prior	int64	0
61	walker_prior	int64	0
62	selfcare_measure_adm	float64	0
63	mobility_measure_adm	float64	0
64	wc_user	int64	0
65	wheel50ft_adm	Int64	18107
66	wc50_type	object	0
67	wheel150ft_adm	Int64	21103
68	wc150_type	object	0
69	bladder_incontinence	Int64	2515
70	bowel_incontinence	Int64	5852
71	pvd_comorbid	int64	0
72	diabetes_comorbid	int64	0
T	T		

73	pain_sleep_adm	Int64	0
74	pain_therapy_adm	Int64	12243
75	pain_activities_adm	Int64	12243
76	falls_hx	object	0
77	prior_surgery	object	0
78	nutrition_tube_adm	int64	0
79	nutrition_mech_diet_adm	int64	0
80	nutrition_ther_diet_adm	int64	0
81	antipsychotic_taking_adm	int64	0
82	antipsychotic_ind_adm	int64	0
83	anticoagulant_taking_adm	int64	0
84	   anticoagulant_ind_adm	int64	0
85	   antibiotic_taking_adm	int64	0
86	antibiotic_ind_adm	int64	0
87	opioid_taking_adm	int64	0
88	opioid_ind_adm	int64	0

		ı	
89	antiplatelet_taking_adm	int64	0
90	antiplatelet_ind_adm	int64	0
91	hypoglycemic_taking_adm	int64	0
92	hypoglycemic_ind_adm	int64	0
93	drug_regimen_review	object	0
94	oxygen_adm	int64	0
95	oxygen_cont_adm	int64	0
96	oxygen_int_adm	int64	0
97	suctioning_adm	int64	0
98	suctioning_asneeded_adm	int64	0
99	trach_adm	int64	0
100	vent_noninvasive_adm	int64	0
101	vent_cpap_adm	int64	0
102	meds_iv_adm	int64	0
103	meds_iv_antibiotic_adm	int64	0
T	·		

104	meds_iv_other_adm	int64	0
105	dialysis_adm	+   int64	0
106	hemodialysis_adm	int64     .	0
107	iv_access_adm	int64	0
108	iv_access_periph_adm		0
		+   int64	0
	iv_access_cent_adm	+   int64	0
111	age_at_admit	float64     .	0
112	los	float64   	0
113	cmg	float64	0
114	tier	+   object	0
+		+	+

## **2 MICE Imputation**

sklearn.impute import IterativeImputerisused.

The imputer was trained on training set only, with the 2 outcome columns excluded.

When imputing the whole dataset, outcome columns are also hidden, then added back after predictors' imputation is done.

## **3 Linear Model Statistical Summary**

#### **Selfcare**

OLS Regression Results							
Dep. Variable:	selfcare_measure_delta	 R-s	quared:			== 11	
Model:	0LS	Adj	■ R-squared	:	0.30	08	
Method:	Least Squares	F-s	tatistic:		96.0	60	
Date:	Tue, 05 Nov 2024	Pro	b (F—statis	tic):	Ø . (	00	
Time:	17:55:58	Log	-Likelihood	:	-1.2291e+0	05	
No. Observations:	28625	AIC	:		2.461e+0	05	
Df Residuals:	28491	BIC	:		2.472e+0	05	
Df Model:	133						
Covariance Type:	nonrobust						
= 0.975]		oef	std err	t 	P> t	[0.025	
- const	484.47	206	15.875	30.515	0.000	453.305	
515.536	704.42	_00	13:0/3	20:213	0.000	7331303	
heightinches	0.02	298	0.034	0.888	0.375	-0.036	
0.096							
weightpounds 0.035	0.02	298	0.003	11.120	0.000	0.025	

ptindweek1	0.0258	0.001	17.725	0.000	0.023
0.029					
ptconweek1	0.0338	0.007	5.100	0.000	0.021
0.047					
ptgrpweek1	0.0428	0.004	10.699	0.000	0.035
0.051					
ptcoweek1	0.0305	0.016	1.927	0.054	-0.001
0.062					
otindweek1	0.0209	0.001	13.996	0.000	0.018
0.024					
otconweek1	0.0381	0.008	4.872	0.000	0.023
0.053					
otgrpweek1	0.0301	0.004	7.482	0.000	0.022
0.038					
otcoweek1	-0.0017	0.016	-0.105	0.916	-0.033
0.030					
slpindweek1	0.0100	0.002	6.410	0.000	0.007
0.013					
slpconweek1	0.0777	0.024	3.262	0.001	0.031
0.124					
slpgrpweek1	0.0104	0.007	1.583	0.114	-0.002
0.023					
slpcoweek1	0.0046	0.024	0.193	0.847	-0.042
0.051					
ptindweek2	-0.0006	0.001	-0.476	0.634	-0.003
0.002					
ptconweek2	0.0066	0.006	1.033	0.301	-0.006
0.019					
ptgrpweek2	0.0165	0.003	5.119	0.000	0.010
0.023					
I Company of the Comp					

ptcoweek2	-0.0065	0.014	-0.477	0.633	-0.033
0.020					
otindweek2	0.0016	0.001	1.146	0.252	-0.001
0.004					
otconweek2	0.0082	0.007	1.182	0.237	-0.005
0.022					
otgrpweek2	0.0150	0.003	4.630	0.000	0.009
0.021					
otcoweek2	0.0057	0.014	0.405	0.686	-0.022
0.033					
slpindweek2	0.0009	0.001	0.607	0.544	-0.002
0.004					
slpconweek2	-0.0167	0.018	-0.948	0.343	-0.051
0.018					
slpgrpweek2	0.0056	0.005	1.117	0.264	-0.004
0.015					
slpcoweek2	0.0127	0.017	0.737	0.461	-0.021
0.046					
hearing_adm	-0.1968	0.183	-1.073	0.283	-0.556
0.163					
vision_adm	-0.5956	0.146	-4 <b>.</b> 075	0.000	-0.882
-0.309					
health_lit_adm	-0.5372	0.097	-5.512	0.000	-0.728
-0.346	0.4000	0 205	0.066	0.224	0.004
expression_adm	0.1983	0.205	0.966	0.334	-0.204
0.601	0.0070	0 220	4 200	0.000	0 536
understand_verbal_adm	0.9878	0.230	4.290	0.000	0.536
1.439	0.2500	0 051	0 424	0 673	2 020
conduct_bims	-0.3586	0.851	-0.421	0.673	-2.026
1.309					

bims_total	0.3422	0.040	8.631	0.000	0.264
0.420					
conduct_sams	-1.8707	1.462	-1.279	0.201	-4.737
0.996					
sams_season	1.8640	1.038	1.796	0.072	-0.170
3.898					
sams_room	-2.6534	1.514	-1.753	0.080	-5.620
0.313					
sams_names	-1.5853	1.216	-1.304	0.192	-3.968
0.798					
sams_hosp	0.4905	0.752	0.652	0.514	-0.983
1.964					
acute_mental_change	-0.1550	0.302	-0.514	0.607	-0.746
0.436					
mood_total_adm	0.0457	0.047	0.966	0.334	-0.047
0.139					
socisolation_adm	-0.0836	0.152	-0.549	0.583	-0.382
0.215					
selfcare_prior	2.4116	0.458	5.270	0.000	1.515
3.309					
mobility_prior	0.0068	0.596	0.011	0.991	-1.162
1.175					
stairs_prior	1.3883	0.479	2.901	0.004	0.450
2.326					
func_cog_prior	0.1550	0.355	0.437	0.662	-0.540
0.850					
wc_manual_prior	-0.1337	0.543	-0.246	0.805	-1.197
0.930					
wc_motor_prior	-1.1698	1.000	-1.170	0.242	-3.129
0.790					

walker_prior	-1.1866	0.295	-4.025	0.000	-1.765
-0.609 selfcare_measure_adm	-0.7197	0.025	-29.342	0.000	-0.768
-0.672 mobility_measure_adm	0.3293	0.023	14.092	0.000	0.283
0.375 wc_user	-0.8260	0.558	-1.481	0.139	-1.919
0.267					11313
wheel50ft_adm 1.252	0.8307	0.215	3.867	0.000	0.410
wheel150ft_adm 0.420	0.0023	0.213	0.011	0.991	-0.416
bladder_incontinence -1.097	-1.3051	0.106	-12.275	0.000	-1.513
bowel_incontinence 0.451	0.1694	0.144	1.180	0.238	-0.112
<pre>pvd_comorbid 0.317</pre>	-0.5738	0.454	-1.263	0.207	-1.464
diabetes_comorbid 0.007	-0.6823	0.352	-1.941	0.052	-1.371
pain_sleep_adm 0.247	0.0033	0.124	0.026	0.979	-0.240
pain_therapy_adm -0.028	-0.2611	0.119	-2.195	0.028	-0.494
pain_activities_adm 0.713	0.4263	0.146	2.919	0.004	0.140
nutrition_tube_adm -0.263	-1.2339	0.495	-2.491	0.013	-2.205
nutrition_mech_diet_adm -1.284	-1.7600	0.243	-7.251	0.000	-2.236

nutrition_ther_diet_adm	0.3760	0.235	1.599	0.110	-0.085
0.837 antipsychotic_taking_adm	-0.5821	1.671	-0.348	0.728	-3.857
2.693	-0.5821	1.0/1	-0:348	V . / Zŏ	-3:03/
antipsychotic_ind_adm	-0.4759	1.706	-0.279	0.780	-3.820
2.868					
anticoagulant_taking_adm	-1.5191	0.919	-1.652	0.098	-3.321
0.283 anticoagulant_ind_adm	0.7229	0.910	0.794	0.427	-1.061
2.507	0:7223	0:310	01754	01727	1:001
antibiotic_taking_adm	1.6361	1.720	0.951	0.342	-1.735
5.008					
antibiotic_ind_adm 1.747	-1.6625	1.740	-0 <sub>•</sub> 956	0.339	-5.073
opioid_taking_adm	-1.7139	1.961	-0.874	0.382	-5.557
2.129	11, 100	11001	0107	01302	31337
opioid_ind_adm	1.2763	1.970	0.648	0.517	-2.585
5.137					
antiplatelet_taking_adm 1.357	-0.0842	0.735	-0.115	0.909	-1.525
antiplatelet_ind_adm	0.2678	0.727	0.369	0.712	-1.156
1.692					
hypoglycemic_taking_adm	-0.5419	1.111	-0.488	0.626	-2.719
1.635	0.2624	1 004	0 241	0.010	1 000
hypoglycemic_ind_adm 2.407	0.2631	1.094	0.241	0.810	-1.880
oxygen_adm	1.1844	1.434	0.826	0.409	-1.627
3.996					
oxygen_cont_adm	-1.2650	1.371	-0.923	0.356	-3.951
1.421					

oxygen_int_adm	-0.7189	1.392	-0.517	0.606	-3.447
2.009 suctioning_adm	-4.3093	3.588	-1.201	0.230	-11.343
2.724 suctioning_asneeded_adm	2.5420	3.700	0.687	0.492	-4.710
9.794	2:3420	5.700	0:007	01432	4:710
trach_adm	1.1673	1.566	0.745	0.456	-1.902
4.237 vent_noninvasive_adm	0.8844	1.374	0.644	0.520	-1.809
3.578	0:0044	1.5/4	0:044	0.520	-1:009
vent_cpap_adm	0.5856	1.460	0.401	0.688	-2.275
3.446 meds_iv_adm	0.8240	0.933	0.883	0.377	-1.004
2.653	0:0240	0.955	0:005	0:5//	-1:004
meds_iv_antibiotic_adm	1.0856	0.922	1.177	0.239	-0.722
2.893 meds_iv_other_adm	-0.3320	0.902	-0.368	0.713	-2.100
1.436	-0:3320	0.902	-0:300	0.713	-2:100
dialysis_adm	-2.3172	2.264	-1.024	0.306	-6.754
2.120 hemodialysis_adm	2.6135	2.225	1.174	0.240	-1.748
6.975	2:0133	Z = ZZJ	1:1/4	0.240	-1:740
iv_access_adm	-5.2678	1.450	-3.633	0.000	-8.110
-2.426 iv_access_periph_adm	3.4068	1.425	2.390	0.017	0.613
6.200	3:4000	1:423	2:390	0:017	0:013
iv_access_mid_adm	3.9984	1.532	2.610	0.009	0.996
7.001 iv_access_cent_adm	2.3335	1.402	1.664	0.096	-0.415
5.082	2:3333	I : 402	1:004	0.090	0.413

age_at_admit	-0.1255	0.012	-10.646	0.000	-0.149
-0.102 los	0.0713	0.015	4.741	0.000	0.042
0.101					
cmg -4.326	-4 <b>.</b> 6050	0.143	-32.312	0.000	-4.884
sex_male	-2.1899	0.286	-7.649	0.000	-2.751
-1.629 marital_status_Unknown	0.7097	0.473	1.501	0.133	-0.217
1.637	0.7097	0:473	1:301	0:133	-0:217
marital_status_Unmarried	1.1208	0.227	4.931	0.000	0.675
1.566 admitclass_Other	-11.0319	1.192	-9.255	0.000	-13.368
-8.696 admitclass_Readmission	-2.3567	0.575	-4.101	0.000	-3.483
-1.230					
admitclass_Unknown 2.909	2.1217	0.402	5.282	0.000	1.334
admit_from_Other_facility 2.008	0.2252	0.910	0.248	0.804	-1.558
admit_from_Short-term_hospital	1.7143	0.731	2.347	0.019	0.282
3.146 payor_primary_Medicare_FFS	0.9681	0.266	3.636	0.000	0.446
1.490 payor_primary_Not_listed	0.6020	0.331	1.820	0.069	-0.046
1.250					
hispanic_Yes 2.366	1.4207	0.483	2.944	0.003	0.475
race_Asian_Indian 6.620	2.7139	1.993	1.362	0.173	-1.192

race_Black	-0.1797	1.535	-0.117	0.907	-3.188
2.828					
race_East_Asian	0.5743	2.039	0.282	0.778	-3.422
4.571					
race_Pacific_islander	-1.1558	2.654	-0.435	0.663	-6.358
4.046					
race_Southeast_Asian	0.7440	1.715	0.434	0.664	-2.617
4.105					
race_Unknown	1.2954	1.588	0.816	0.414	-1.816
4.407					
race_White	1.1775	1.524	0.773	0.440	-1.809
4.164					
language_Non-English	-0.6186	0.547	-1.131	0.258	-1.690
0.453					
transport_lack_Unknown	0.2506	0.542	0.462	0.644	-0.812
1.313					
transport_lack_Yes	0.6128	0.585	1.048	0.294	-0.533
1.758					
inattention_adm_Fluctuates	-0.3091	0.577	-0.536	0.592	-1.439
0.821					
inattention_adm_Not_present	0.8673	0.576	1.506	0.132	-0.262
1.996					
disorganized_adm_Fluctuates	-0.6088	0.656	-0.929	0.353	-1.894
0.676					
disorganized_adm_Not_present	0.1147	0.620	0.185	0.853	-1.101
1.330					
altered_adm_Fluctuates	0.6213	0.907	0.685	0.493	-1.156
2.398					
altered_adm_Not_present	-0.5421	0.816	-0.664	0.507	-2.142
1.058					

wc50_type_manual		-0.8481	2.596	-0.327	0.744	-5.936
4.240						
wc50_type_motorized		0.0221	2.724	0.008	0.994	-5.317
5.361						
wc150_type_manual		-0.4343	2.578	-0.168	0.866	<b>-5 .</b> 487
4.619						
wc150_type_motorized		-0.3916	2.674	-0.146	0.884	-5.633
4.850						
falls_hx_Unknown		-0.7952	0.531	-1.497	0.134	-1.836
0.246						
falls_hx_Yes		-0.8844	0.236	<b>-3.746</b>	0.000	-1.347
-0.422		0 2426	0.045	0 405	0.600	0.054
prior_surgery_Unknown		0.3126	0.645	0.485	0.628	-0.951
1.576		0 0202	0 272	0 111	0.010	0 505
prior_surgery_Yes		0.0302	0.273	0.111	0.912	-0 <sub>•</sub> 505
0.565	10	2 /201	1 206	2 022	0.043	4 902
<pre>drug_regimen_review_Not_applicab -0.076</pre>	re	-2.4391	1.206	-2.023	0:043	-4.802
drug_regimen_review_Yes		0.3324	0.347	0.958	0.338	-0.347
1.012		0:3324	0:347	0 : 930	0:330	-0:347
tier_2		-0.7145	1.275	-0.560	0.575	-3.214
1.785		017145	11273	01300	01373	31217
tier_3		0.0399	0.924	0.043	0.966	-1.771
1.851						
tier_Unknown		0.6671	0.935	0.713	0.476	-1.166
2.500						
Omnibus: 15	7.644	Durbin-	Watson:		1.984	
Prob(Omnibus):	0.000	Jarque-	Bera (JB):		218.338	
Skew: -	-0.060	Prob(JB	):		3.88e-48	
Kurtosis:	3.411	Cond. N	0 .		1.03e+16	

#### Notes:

- [1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
- [2] The smallest eigenvalue is 1.42e-22. This might indicate that there are strong multicollinearity problems or that the design matrix is singular.

### **Mobility**

Dep. Variable:	<pre>mobility_measure_delta</pre>	R-s	quared:		0.24	17	
Model:	-		. R-squared:		0.24	13	
Method:	Least Squares	F-s	tatistic:		70.1	16	
Date:	Tue, 05 Nov 2024	Pro	b (F-statist	ic):	0.0	00	
Time:	17:56:29	Log	-Likelihood:		-1.2310e+0	)5	
No. Observations:	28625	AIC	:		2.465e+0	)5	
Of Residuals:	28491	BIC	:		2.476e+0	)5	
Of Model:	133						
Covariance Type:	nonrobust						
		====	=======				=====
=		oof	std err	+	P> t	[0.025	
0 <b>.</b> 975]		ЭСТ	stu err	L	P>  [	[0:025	
_							
const	371.76	595	15.980	23.264	0.000	340.447	
403.092							
neightinches	-0 . 02	289	0.034	-0.855	0.392	-0.095	

weightpounds	0.0206	0.003	7.621	0.000	0.015
0.026					
ptindweek1	0.0267	0.001	18.240	0.000	0.024
0.030					
ptconweek1	0.0232	0.007	3.484	0.000	0.010
0.036					
ptgrpweek1	0.0494	0.004	12.278	0.000	0.042
0.057					
ptcoweek1	0.0257	0.016	1.611	0.107	-0.006
0.057					
otindweek1	0.0171	0.002	11.390	0.000	0.014
0.020					
otconweek1	0.0236	0.008	2.999	0.003	0.008
0.039					
otgrpweek1	0.0323	0.004	7.986	0.000	0.024
0.040					
otcoweek1	0.0052	0.016	0.319	0.750	-0.027
0.037					
slpindweek1	0.0144	0.002	9.218	0.000	0.011
0.017					
slpconweek1	0.0686	0.024	2.863	0.004	0.022
0.116					
slpgrpweek1	0.0204	0.007	3.071	0.002	0.007
0.033					
slpcoweek1	-0.0130	0.024	-0.548	0.584	-0.060
0.034					
ptindweek2	-0.0012	0.001	-0.900	0.368	-0.004
0.001					
ptconweek2	0.0053	0.006	0.813	0.416	-0.007
0.018					
I control of the cont					

ptgrpweek2	0.0160	0.003	4.922	0.000	0.010
0.022					
ptcoweek2	0.0015	0.014	0.108	0.914	-0.026
0.028					
otindweek2	-0.0016	0.001	-1.187	0.235	-0.004
0.001					
otconweek2	-0.0004	0.007	-0.058	0.954	-0.014
0.013					
otgrpweek2	0.0073	0.003	2.231	0.026	0.001
0.014					
otcoweek2	-0.0149	0.014	-1.061	0.289	-0.042
0.013					
slpindweek2	0.0029	0.001	2.053	0.040	0.000
0.006					
slpconweek2	-0.0192	0.018	-1.081	0.280	-0.054
0.016					
slpgrpweek2	-0.0022	0.005	-0.447	0.655	-0.012
0.008					
slpcoweek2	0.0243	0.017	1.401	0.161	-0.010
0.058					
hearing_adm	-0.0539	0.185	-0.292	0.770	-0.416
0.308					
vision_adm	-0.7562	0.147	-5.140	0.000	-1.045
-0.468			4 200		
health_lit_adm	-0.4220	0.098	-4.302	0.000	-0.614
-0.230	0.0074				
expression_adm	-0.0671	0.207	-0.325	0.745	-0.472
0.338	0 7005	0.000	2 276	0.001	0.000
understand_verbal_adm	0.7825	0.232	3.376	0.001	0.328
1.237					

conduct_bims	0.0087	0.857	0.010	0.992	-1.670
1.688					
bims_total	0.1965	0.040	4.923	0.000	0.118
0.275					
conduct_sams	-1.1848	1.472	-0.805	0.421	-4.070
1.701					
sams_season	1.4498	1.045	1.388	0.165	-0.598
3.498					
sams_room	-3.4308	1.524	-2.252	0.024	-6.417
-0.444					
sams_names	-1.0247	1.224	-0.837	0.402	-3.424
1.374					
sams_hosp	0.9462	0.757	1.250	0.211	-0.538
2.430					
acute_mental_change	0.0472	0.304	0.155	0.877	-0.548
0.642					
mood_total_adm	-0.0080	0.048	-0.168	0.867	-0.101
0.085					
socisolation_adm	0.0210	0.153	0.137	0.891	-0.279
0.321	4 2462	0.464	2 640	0.000	0 242
selfcare_prior	1.2162	0.461	2.640	0.008	0.313
2.119	0 5715	0. 600	0.052	0 241	0 605
mobility_prior	0.5715	0.600	0.952	0.341	-0.605
1.748	1 1050	0 402	2 460	0 014	0 241
stairs_prior 2.129	1.1850	0.482	2.460	0.014	0.241
func_cog_prior	-0.0402	0.357	-0.113	0.910	-0.740
0.660	-0:0402	0 . JJ/	-0.113	0.910	-0.740
wc_manual_prior	-1.3528	0.546	-2.476	0.013	-2.424
-0.282	-1.3320	V . J4U	-2:4/0	0 . OT2	-2.424
-0:202					

wc_motor_prior -0.994	-2.9662	1.006	-2.947	0.003	-4.939
walker_prior -1.788	-2.3700	0.297	<b>-7</b> .985	0.000	-2.952
selfcare_measure_adm 0.083	0.0345	0.025	1.395	0.163	-0.014
mobility_measure_adm -0.143	-0.1886	0.024	-8.020	0.000	-0.235
wc_user -0.780	-1.8802	0.561	-3.349	0.001	-2.981
wheel50ft_adm 0.927	0.5035	0.216	2.329	0.020	0.080
wheel150ft_adm 0.594	0.1734	0.215	0.807	0.419	-0.248
bladder_incontinence -0.757	-0.9666	0.107	-9.031	0.000	-1.176
bowel_incontinence 0.232	-0.0516	0.144	-0.357	0.721	-0.335
pvd_comorbid -0.004	-0.9006	0.457	-1.969	0.049	-1.797
diabetes_comorbid -0.426	-1.1195	0.354	-3.163	0.002	-1.813
pain_sleep_adm 0.249	0.0039	0.125	0.031	0.975	-0.241
pain_therapy_adm -0.005	-0.2395	0.120	-2.000	0.046	-0.474
pain_activities_adm 0.635	0.3473	0.147	2.363	0.018	0.059
nutrition_tube_adm 0.629	-0.3488	0.499	-0.700	0.484	-1.326

nutrition_mech_diet_adm -0.724	-1.2028	0.244	-4.923	0.000	-1.682
nutrition_ther_diet_adm 0.889	0.4249	0.237	1.796	0.073	-0.039
antipsychotic_taking_adm 2.190	-1.1066	1.682	-0.658	0.511	-4.404
antipsychotic_ind_adm 3.828	0.4619	1.717	0.269	0.788	-2.904
anticoagulant_taking_adm 1.185	-0.6289	0.926	-0.679	0.497	-2.443
anticoagulant_ind_adm 2.182	0.3864	0.916	0.422	0.673	-1.410
antibiotic_taking_adm	2.4688	1.732	1.426	0.154	-0.925
5.863 antibiotic_ind_adm	-2.4965	1.751	-1.425	0.154	-5.929
0.936 opioid_taking_adm	-1.3390	1.974	-0.678	0.497	-5.207
2.529 opioid_ind_adm	0.4899	1.983	0.247	0.805	-3.397
4.377 antiplatelet_taking_adm	0.2138	0.740	0.289	0.773	-1.237
1.664 antiplatelet_ind_adm	-0.0632	0.731	-0.086	0.931	-1.497
1.370 hypoglycemic_taking_adm	-0.2858	1.118	-0.256	0.798	-2.477
1.906 hypoglycemic_ind_adm	-0.0791	1.101	-0.072	0.943	-2.237
2.079 oxygen_adm 4.661	1.8312	1.444	1.268	0.205	-0.999
	1.8312	1.444	1.208	0.205	-0.999

oxygen_cont_adm	-2.0469	1.380	-1.484	0.138	-4.751
0.657 oxygen_int_adm	-1.1392	1.401	-0.813	0.416	-3.885
1.607					
suctioning_adm	-2.2917	3.612	-0.634	0.526	-9.372
4.788					
suctioning_asneeded_adm	0.4977	3.725	0.134	0.894	-6.803
7.798					
trach_adm	0.7906	1.576	0.502	0.616	-2.299
3.880	4 4640	4 202	0.040	0.404	4 550
vent_noninvasive_adm	1.1613	1.383	0.840	0.401	-1.550
3.872	0 4000	1 460	0.220	0.724	2 201
<pre>vent_cpap_adm 3.379</pre>	0.4988	1.469	0.339	0.734	-2.381
meds_iv_adm	0.2319	0.939	0.247	0.805	-1.609
2.073	0.2519	0.959	0:247	0.005	-1:009
meds_iv_antibiotic_adm	0.2583	0.928	0.278	0.781	-1.561
2.078	012303	01320	01270	01701	11301
meds_iv_other_adm	0.1727	0.908	0.190	0.849	-1.607
1.953					
dialysis_adm	-2.3885	2.279	-1.048	0.295	-6.855
2.078					
hemodialysis_adm	1.7202	2.240	0.768	0.443	-2.670
6.111					
iv_access_adm	-4.0016	1.460	-2.742	0.006	-6.862
-1.141					
iv_access_periph_adm	2.1101	1.435	1.471	0.141	-0.702
4.922		4	4		
iv_access_mid_adm	2.8664	1.542	1.859	0.063	-0.156
5.888					

iv_access_cent_adm	2.3568	1.412	1.669	0.095	-0.410
5.124					
age_at_admit	-0.1177	0.012	-9.916	0.000	-0.141
-0.094					
los	0.0619	0.015	4.094	0.000	0.032
0.092					
cmg	-3.6074	0.143	-25.146	0.000	-3.889
-3.326					
sex_male	-0.5732	0.288	-1.989	0.047	-1.138
-0.008					
marital_status_Unknown	-0.0565	0.476	-0.119	0.905	-0.990
0.877					
marital_status_Unmarried	0.6479	0.229	2.832	0.005	0.199
1.096					
admitclass_Other	-11.4505	1.200	-9.543	0.000	-13.802
-9.099					
admitclass_Readmission	-3.1474	0.578	-5.441	0.000	-4.281
-2.013					
admitclass_Unknown	1.3064	0.404	3.231	0.001	0.514
2.099					
admit_from_Other_facility	-0.3406	0.916	-0.372	0.710	-2.135
1.454					
admit_from_Short-term_hospital	2.5978	0.735	3.532	0.000	1.156
4.039					
payor_primary_Medicare_FFS	0.7730	0.268	2.884	0.004	0.248
1.298					
payor_primary_Not_listed	1.1165	0.333	3.354	0.001	0.464
1.769					
hispanic_Yes	1.8796	0.486	3.870	0.000	0.928
2.832					

race_Asian_Indian 9.319	5.3872	2.006	2.686	0.007	1.455
race_Black	1.4279	1.545	0.924	0.355	-1.600
4.456 race_East_Asian	1.3035	2.052	0.635	0.525	-2.719
5.326 race_Pacific_islander	1.5683	2.672	0.587	0.557	-3.668
6.805 race_Southeast_Asian	2.4589	1.726	1.424	0.154	-0.925
5.842 race_Unknown	1.6330	1.598	1.022	0.307	-1.499
4.765 race_White	2.3491	1.534	1.532	0.126	-0.657
5.355 language_Non-English	-0.4321	0.550	-0.785	0.432	-1.511
0.647 transport_lack_Unknown	-0.0625	0.546	-0.115	0.909	-1.132
1.007 transport_lack_Yes	-0.6470	0.588	-1.100	0.272	-1.800
0.506 inattention_adm_Fluctuates	-0.1944	0.580	-0.335	0.738	-1.332
0.943 inattention_adm_Not_present	0.5315	0.580	0.917	0.359	-0.605
1.668 disorganized_adm_Fluctuates	-0.8561	0.660	-1.297	0.195	-2.150
0.438 disorganized_adm_Not_present	-0.1384	0.624	-0.222	0.825	-1.362
1.085 altered_adm_Fluctuates 2.359	0.5702	0.913	0.625	0.532	-1.219

altered_adm_Not_present		-0.3567	0.822	-0.434	0.664	-1.967
1.254						
wc50_type_manual		-2.4024	2.613	-0.919	0.358	-7.524
2.719						
wc50_type_motorized		0.5222	2.742	0.190	0.849	-4.852
5.897		4 4000	0 505			2
wc150_type_manual		1.4868	2.595	0.573	0.567	-3.600
6.573		2 2670	2 602	1 251	0 211	0 642
<pre>wc150_type_motorized 1.909</pre>		-3.3670	2.692	-1.251	0.211	-8.643
falls_hx_Unknown		-1.1212	0.535	-2.098	0.036	-2.169
-0.074		111212	01333	21030	01030	21103
falls_hx_Yes		-1.4308	0.238	-6 <sub>•</sub> 020	0.000	-1.897
-0.965						
prior_surgery_Unknown		-0.0934	0.649	-0.144	0.886	-1.366
1.179						
prior_surgery_Yes		0.4335	0.275	1.578	0.115	-0.105
0.972						
drug_regimen_review_Not_applicable		-1.1944	1.214	-0.984	0.325	-3.573
1.184		. 7004	0.040	2 225	0.045	0.010
drug_regimen_review_Yes		0.7001	0.349	2.005	0.045	0.016
1.384 tier_2		-0.0416	1.284	-0.032	0.974	-2.558
2.475		-0:0410	1:204	-0:032	0.974	-2:550
tier_3		0.9509	0.930	1.022	0.307	-0.872
2.774						
tier_Unknown		1.6247	0.942	1.726	0.084	-0.221
3.470						
Omnibus: 1189.	==== 114	======= -Durbin	======= Watson:		2.020	
	000		Bera (JB):		2040.361	

strong multicollinearity problems or that the design matrix is singular.

### **4 Lasso Regression**

Alpha = 0.01

#### **Selfcare**

```
----- Train Set Results -----

MSE: 314.3998

R²: 0.3101
------ Eval Set Results -----

MSE: 303.8687

R²: 0.3295
----- Test Set Results -----

MSE: 311.7511

R²: 0.3058

----- Model Summary: Non-zero Coefficients -----

Feature Coefficient
--------

0 selfcare_prior 2.39751
```

1	admitalace Unknown	2 00542
1	_	2.00542
2	stairs_prior	1.42072
3	admit_from_Short-term_hospital	1.38099
4	hispanic_Yes	1.19128
5	marital_status_Unmarried	1.0527
6	understand_verbal_adm	0.9923
7	meds_iv_antibiotic_adm	0.906835
8	payor_primary_Medicare_FFS	0.865237
9	<pre>inattention_adm_Not_present</pre>	0.831454
10	wheel50ft_adm	0.801865
11	vent_noninvasive_adm	0.754105
12	tier_Unknown	0.621055
13	sams_season	0.600677
14	payor_primary_Not_listed	0.509162
15	marital_status_Unknown	0.472033
16	altered_adm_Fluctuates	0.447462
17	meds_iv_adm	0.434721
18	<pre>pain_activities_adm</pre>	0.402841
19	vent_cpap_adm	0.399555
20	nutrition_ther_diet_adm	0.349424
21	iv_access_mid_adm	0.348507
22	bims_total	0.343399
23	mobility_measure_adm	0.331358
24	oxygen_int_adm	0.304638
25	transport_lack_Yes	0.247966
26	drug_regimen_review_Yes	0.232384
27	expression_adm	0.195301
28	race_White	0.161821
29	antiplatelet_ind_adm	0.158802
30	race_Unknown	0.151276
31	func_cog_prior	0.136997
ЭI	Tane_cog_pritor	0.130337

32	bowel_incontinence	0.134582
33	race_Asian_Indian	0.0968985
34	disorganized_adm_Not_present	0.0937709
35	slpconweek1	0.0772565
36	los	0.0723812
37	ptgrpweek1	0.0433044
38	mood_total_adm	0.0401251
39	otconweek1	0.0383351
40	ptconweek1	0.0340662
41	ptcoweek1	0.030615
42	otgrpweek1	0.0305066
43	weightpounds	0.0301121
44	ptindweek1	0.0259642
45	heightinches	0.0215258
46	otindweek1	0.0209847
47	ptgrpweek2	0.0163378
48	otgrpweek2	0.0149469
49	slpcoweek2	0.0129195
50	slpgrpweek1	0.0107638
51	slpindweek1	0.0101203
52	otconweek2	0.00837071
53	ptconweek2	0.00642765
54	wheel150ft_adm	0.00639419
55	slpgrpweek2	0.00575785
56	slpcoweek1	0.00543651
57	otcoweek2	0.00460399
58	otindweek2	0.00153546
59	slpindweek2	0.000792061
60	ptindweek2	-0.000659982
61	otcoweek1	-0.00204263
62	ptcoweek2	-0.00539651

63	tier_2	-0.0119519
64	wc_manual_prior	-0.0159114
65	slpconweek2	-0.0167844
66	socisolation_adm	-0.0578502
67	acute_mental_change	-0.116818
68	age_at_admit	-0.126492
69	hearing_adm	-0.177775
70	iv_access_cent_adm	-0.191485
71	antipsychotic_ind_adm	-0.197786
72	wc50_type_manual	-0.204446
73	pain_therapy_adm	-0.237285
74	<pre>inattention_adm_Fluctuates</pre>	-0.262245
75	hypoglycemic_taking_adm	-0.265718
76	wc_motor_prior	-0.27736
77	language_Non-English	-0.295282
78	opioid_taking_adm	-0.413698
79	altered_adm_Not_present	-0.422813
80	pvd_comorbid	-0.433509
81	falls_hx_Unknown	-0.453386
82	sams_names	-0.501323
83	health_lit_adm	-0.543034
84	disorganized_adm_Fluctuates	-0.566296
85	vision_adm	-0.573041
86	sams_room	-0.588371
87	suctioning_adm	-0.595417
88	diabetes_comorbid	-0.657504
89	selfcare_measure_adm	-0.71615
90	antipsychotic_taking_adm	-0.72325
91	anticoagulant_taking_adm	-0.73647
92	falls_hx_Yes	-0.81496
93	nutrition_tube_adm	-1.0422

94	race_Black	-1.1343
95	<pre>drug_regimen_review_Not_applicable</pre>	-1.15008
96	walker_prior	-1.15993
97	bladder_incontinence	-1.30364
98	nutrition_mech_diet_adm	-1.69759
99	iv_access_adm	-1.77231
100	wc_user	-1.87079
101	admitclass_Readmission	-2.03416
102	sex_male	-2.1092
103	cmg	-4.60291
104	admitclass_Other	-9 <b>.</b> 78954

#### **Mobility**

2	hispanic_Yes	1.51074
3	tier_Unknown	1.3215
4	stairs_prior	1.23316
5	selfcare_prior	1.19094
6	admitclass_Unknown	1.19048
7	payor_primary_Not_listed	1.0454
8	vent_noninvasive_adm	1.01918
9	understand_verbal_adm	0.746554
10	payor_primary_Medicare_FFS	0.671067
11	tier_3	0.642546
12	drug_regimen_review_Yes	0.615802
13	marital_status_Unmarried	0.59816
14	race_White	0.580659
15	mobility_prior	0.515323
16	wheel50ft_adm	0.49062
17	oxygen_int_adm	0.46661
18	sams_hosp	0.412587
19	altered_adm_Fluctuates	0.399983
20	nutrition_ther_diet_adm	0.393349
21	inattention_adm_Not_present	0.37642
22	prior_surgery_Yes	0.350453
23	vent_cpap_adm	0.347872
24	pain_activities_adm	0.320147
25	meds_iv_adm	0.269937
26	bims_total	0.195895
27	wheel150ft_adm	0.160772
28	sams_season	0.143984
29	antiplatelet_taking_adm	0.098298
30	slpconweek1	0.0676826
31	los	0.062349
32	ptgrpweek1	0.0500156

33	selfcare_measure_adm	0.0366464
34	otgrpweek1	0.0326333
35	ptindweek1	0.0270125
36	ptcoweek1	0.0268248
37	ptconweek1	0.0237012
38	slpcoweek2	0.0235406
39	otconweek1	0.0235084
40	weightpounds	0.0207525
41	slpgrpweek1	0.0205976
42	otindweek1	0.0171955
43	ptgrpweek2	0.0158848
44	slpindweek1	0.0146886
45	otgrpweek2	0.00728166
46	ptconweek2	0.00521565
47	otcoweek1	0.00392484
48	slpindweek2	0.002869
49	ptcoweek2	0.0014965
50	antiplatelet_ind_adm	0.000482431
51	otconweek2	-9.02456e-05
52	ptindweek2	-0.00127416
53	otindweek2	-0.00165366
54	slpgrpweek2	-0.00196182
55	mood_total_adm	-0.00593689
56	slpcoweek1	-0.0103958
57	otcoweek2	-0.0148108
58	slpconweek2	-0.0191357
59	admit_from_Other_facility	-0.0241453
60	heightinches	-0.0378666
61	hearing_adm	-0.0395392
62	hypoglycemic_ind_adm	-0.0467985
63	bowel_incontinence	-0.0486658

64	sams_names	-0.0556964
65	language_Non-English	-0.0838041
66	age_at_admit	-0.117533
67	mobility_measure_adm	-0.183679
68	anticoagulant_taking_adm	-0.185032
69	nutrition_tube_adm	-0.194402
70	inattention_adm_Fluctuates	-0.209251
71	pain_therapy_adm	-0.216866
72	oxygen_cont_adm	-0.25519
73	iv_access_periph_adm	-0.261398
74	altered_adm_Not_present	-0.266616
75	hypoglycemic_taking_adm	-0.292736
76	race_Black	-0.323112
77	transport_lack_Yes	-0.371315
78	health_lit_adm	-0.423896
79	dialysis_adm	-0.47499
80	sex_male	-0.482218
81	antipsychotic_taking_adm	-0.562639
82	disorganized_adm_Fluctuates	-0.652764
83	vision_adm	-0.746798
84	<pre>pvd_comorbid</pre>	-0.761576
85	opioid_taking_adm	-0.793968
86	suctioning_adm	-0.850123
87	falls_hx_Unknown	-0.975996
88	bladder_incontinence	-0.985781
89	diabetes_comorbid	-1.0927
90	nutrition_mech_diet_adm	-1.12231
91	wc_manual_prior	-1.20954
92	falls_hx_Yes	-1.37998
93	iv_access_adm	-1.45368
94	sams_room	-1.58562

9	5 walker_prior	-2.32987
	6 wc_motor_prior	-2.42778
9	7 wc_user	-2.77287
9	8 admitclass_Readmission	-2.8276
9	9 cmg	-3.59745
10	0 admitclass_Other	-10.2292