

```

1  /* run redcap import statement */
2  /* save as dta */
3
4  /* separate waves */
5
6  version 16.1
7  clear
8  set more off
9  set scheme dubois
10
11 use "/Users/tiwashyn/Documents/Documents - MacBook Air 2019 the
replacement/PETAL/BLUE CORAL/BLUE CORAL DATA Deidentified
v02/BLUECORALLT0Database-M1PatientProxyReport_DATA_2021-02-26_de-ide
ntified.dta"
12
13 preserve
14 keep if redcap_event_name=="baseline_arm_1"
15 keep record_id age sex race ethnicity los_day dispo
16 sort record_id
17 duplicates report record_id
18 /* make sure no duplicates */
19 save "/Users/tiwashyn/Documents/Documents - MacBook Air 2019 the
replacement/PETAL/BLUE CORAL/BLUE CORAL DATA Deidentified
v02/BLUECORALLT0Database_EngPt_STATA data_2021-02-26.baseline",
replace
20 restore
21
22 keep if redcap_event_name=="month_1_arm_1"
23 drop age sex race ethnicity los_day dispo
24 sort record_id
25 duplicates report record_id
26 merge record_id using "/Users/tiwashyn/Documents/Documents -
MacBook Air 2019 the replacement/PETAL/BLUE CORAL/BLUE CORAL DATA
Deidentified v02/BLUECORALLT0Database_EngPt_STATA
data_2021-02-26.baseline"
27 tab _merge
28
29
30
31 /* Final complete data inclusion */
32
33 keep if patient_posthospital_survey_comp==2 | ///
34     spanish_patient_posthospital_sur==2 | ///
35     proxy_posthospital_survey_comple==2 | ///
36     spanish_proxy_posthospital_surve==2
37 keep if !missing(age)
38 keep if !missing(sex)
39

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```
40 /* get rid of some extra data to make the dataset more manageable */
41
42 drop d_* a_* hs* *_sp *_px *_sp_px
43
44 /* Table 1 */
45
46 gen site = substr(upper(record_id), 1, 3)
47 encode site, gen(site_num)
48 xtset site_num
49
50 gen raceeth = 4 /* unknown or other */
51 replace raceeth=2 if race==3 & ethnicity==0 /* non-hispanic Black */
52 replace raceeth=1 if race==5 & ethnicity==0 /* non-hispanic White */
53 replace raceeth=3 if ethnicity==1 /* hispanic */
54
55 gen female=1 if sex==1
56 replace female=0 if sex==0
57
58 gen age_10 = age/10
59 gen age_10_2 = age_10*age_10
60
61 gen los_week=los_day/7
62
63 gen dispo_home=(dispo==1) if !missing(dispo)
64
65 label define dispo_2catlab 1 "Home without Services" 0 "Other
Discharge"
66 label val dispo_home dispo_2catlab
67
68 gen dispo_3cat=.
69 replace dispo_3cat=1 if dispo_home
70 replace dispo_3cat=2 if dispo==2
71 replace dispo_3cat=3 if dispo>=3
72
73 label define dispo_3catlab 1 "Home" 2 "Home with Services" 3
"Inpatient"
74 label val dispo_3cat dispo_3catlab
75
76 sum age, detail
77 tab raceeth, m
78 tab female, m
79 sum los_day, detail
80 tab dispo, m
81 tab dispo_home, m
82
83 tab proxy_posthospital_survey_comple
spanish_proxy_posthospital_surve, missing
84
```

```

85  /* Self-reported new cardiovascular symptoms, Old Table 2, now
86  R1.Table1 */
87
88  foreach var of varlist csrs_cough csrs_chest csrs_breathless
89  csrs_emotion csrs_house csrs_home csrs_laugh {
90      gen new_`var' = (`var'==1) & (`var'_comp==2) if !missing(`var')
91      replace new_`var'=0 if `var'==3
92  }
93
94  foreach var of varlist csrs_oxygen {
95      gen new_`var' = (`var'==1) & (`var'_comp==1 | `var'_comp==2) if
96      !missing(`var')
97      replace new_`var'=0 if `var'==3
98  }
99
100  foreach var of varlist csrs_swelling csrs_breath csrs_heartbeat
101  csrs_chestpain {
102      gen new_`var' = (`var'!=1) & (`var'_comp==2) if !missing(`var')
103      replace new_`var'=0 if `var'==1
104  }
105
106  foreach var of varlist new_csrs_cough new_csrs_chest
107  new_csrs_breathless new_csrs_emotion ///
108  new_csrs_house new_csrs_home new_csrs_laugh ///
109  new_csrs_oxygen ///
110  new_csrs_swelling new_csrs_breath new_csrs_heartbeat
111  new_csrs_chestpain {
112      tab `var'
113      ci proportions `var'
114  }
115
116  gen new_complaints= new_csrs_cough + new_csrs_chest +
117  new_csrs_breathless + ///
118  new_csrs_emotion + new_csrs_house + new_csrs_home +
119  new_csrs_laugh + ///
120  new_csrs_oxygen + ///
121  new_csrs_swelling + new_csrs_breath + new_csrs_heartbeat +
122  new_csrs_chestpain
123
124  tab new_complaints, m
125
126  gen new_any = (new_complaints!=0) if !missing(new_complaints)
127
128  tab new_any, m
129  ci proportions new_any
130

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124 xtlogit new_any female age_10 i.raceeth, re or
125 xtlogit new_any female age_10 age_10_2 i.raceeth, re or
126 xtlogit new_any female age_10 age_10_2 i.raceeth los_week
    dispo_home, re or
127
128 reg pt_adl_diff_score new_complaints
129 spearman pt_adl_diff_score new_complaints
130
131
132
133 /* change in disability, Figure 2 */
134
135 foreach var of varlist adl_dressing adl_walking adl_bathing
    adl_eating adl_bed ///
136     adl_toilet adl_map adl_hotmeal adl_groceries adl_calls adl_meds
    adl_money ///
137     adl_stooping adl_lift {
138     gen limit_`var' = (`var'==1) if !missing(`var') & `var'!=8
139     replace limit_`var'=0 if `var'==3 | `var'==5
140 }
141
142 sum limit_adl_dressing limit_adl_walking limit_adl_bathing ///
    limit_adl_eating limit_adl_bed limit_adl_toilet limit_adl_map ///
143     limit_adl_hotmeal limit_adl_groceries limit_adl_calls ///
144     limit_adl_meds limit_adl_money limit_adl_stooping limit_adl_lift
145
146
147 tab pt_adl_diff_score, missing
148 tab pt_adl_diff_score
149 gen pt_adl_diff_score_neg=-1*pt_adl_diff_score
150 gen adl_any_new = (pt_adl_diff_score_neg>0)
151 replace adl_any_new = . if missing(pt_adl_diff_score_neg)
152
153 ci proportions adl_any_new
154
155 xtreg pt_adl_diff_score female age_10 i.raceeth, re
156 xtreg pt_adl_diff_score female age_10 age_10_2 i.raceeth, re
157 xtreg pt_adl_diff_score female age_10 age_10_2 i.raceeth los_week
    dispo_home, re
158 xtreg pt_adl_diff_score female age_10 age_10_2 i.raceeth los_week
    dispo_home new_any, re
159
160 xtlogit adl_any_new female age_10 i.raceeth, re or
161 xtlogit adl_any_new female age_10 age_10_2 i.raceeth, re or
162 xtlogit adl_any_new female age_10 age_10_2 i.raceeth los_week
    dispo_home, re or
163 xtlogit adl_any_new female age_10 age_10_2 i.raceeth los_week
    dispo_home new_any, re or
164

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165
166 tab dispo_home adl_any_new
167
168 gen adl_cat_trunc = pt_adl_diff_score_neg
169 replace adl_cat_trunc = -1 if pt_adl_diff_score_neg<0 & !missing(
pt_adl_diff_score_neg)
170 replace adl_cat_trunc = 7 if pt_adl_diff_score_neg>6 & !missing(
pt_adl_diff_score_neg)
171
172 label define adl_label -1 "Improve" ///
173     7 "7+"
174
175 label values adl_cat_trunc adl_label
176
177 catplot dispo_home adl_cat_trunc, ////
178     asyvars recast(bar) ///
179     legend(order(2 1) position(0) bplacement(neast)) ///
180     ytitle("Number of Patients") ///
181     aspect(1.6) ///
182     bar(1, bcolor(black)) bar(2, bcolor(maroon)) ///
183     title ("(a) All Respondents")
184
185 catplot dispo_home adl_cat_trunc if age<60, ////
186     asyvars recast(bar) ///
187     legend(order(2 1) position(0) bplacement(neast)) ///
188     ytitle("Number of Patients") ///
189     aspect(1.6) ///
190     bar(1, bcolor(black)) bar(2, bcolor(maroon)) ///
191     title ("(b) Age < 60")
192
193 catplot dispo_home adl_cat_trunc if age>=60, ////
194     asyvars recast(bar) ///
195     legend(order(2 1) position(0) bplacement(neast)) ///
196     ytitle("Number of Patients") ///
197     aspect(1.6) ///
198     bar(1, bcolor(black)) bar(2, bcolor(maroon)) ///
199     title ("(c) Age 60+")
200
201 gen stupid=1
202
203 catplot stupid adl_cat_trunc, ////
204     asyvars recast(bar) ///
205     legend(order(2 1) position(0) bplacement(neast)) ///
206     ytitle("Number of Patients") ///
207     aspect(1.6) ///
208     bar(1, bcolor(black)) bar(2, bcolor(maroon)) ///
209     title ("All Patients")
210

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```

211 /* self-reported degree of recovery recovery */
212 /* FIGURE 3 */
213
214 histogram pt_covidrec, bin(10) freq xtitle("Self-Reported Degree
of Return to Pre-COVID Function")
215 sum pt_covidrec, detail
216 tab pt_covidrec
217
218 gen notback=(pt_covidrec<100) if !missing(pt_covidrec)
219 gen notback50=(pt_covidrec<=50) if !missing(pt_covidrec)
220 tab notback
221
222 ci proportions notback
223 ci proportions notback50
224
225 xtreg pt_covidrec female age_10 i.raceeth, re
226 xtreg pt_covidrec female age_10 age_10_2 i.raceeth, re
227 xtreg pt_covidrec female age_10 age_10_2 i.raceeth los_week
dispo_home, re
228 xtreg pt_covidrec female age_10 age_10_2 i.raceeth los_week
dispo_home new_any, re
229 reg pt_covidrec new_complaints
230 spearman pt_covidrec new_complaints pt_adl_diff_score
231
232 /* interactions of disability, cardiopulmonary symptoms, recovery
*/
233 gen new_card_dis=.
234 replace new_card_dis=1 if adl_any_new==0 & new_any==0
235 replace new_card_dis=2 if adl_any_new==1 & new_any==0
236 replace new_card_dis=3 if adl_any_new==0 & new_any==1
237 replace new_card_dis=4 if adl_any_new==1 & new_any==1
238
239 tab new_card_dis, m
240
241 label define card_adl_lab 1 "No New Symptoms, No New Disability
(n=62)" ///
242     2 "New Symptoms, No New Disability (n=44)" ///
243     3 "No New Symptoms, New Disability (n=49)" ///
244     4 "New Symptoms, New Disability (n=86)"
245
246 label values new_card_dis card_adl_lab
247
248 gen recovery_cat = floor(pt_covidrec/10)*10
249
250 label define recovery_cat_lab 0 "1-9" 10 "10-19" 20 "20-29" 30
"30-39" 40 "40-49" ///
251     50 "50-59" 60 "60-69" 70 "70-79" 80 "80-89" 90 "90-99" 100 "100"
252

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254
255   catplot new_card_dis recovery_cat, ///
256     asyvars stack recast(bar) ///
257     legend(order(4 3 2 1) position(0) bplacement(nwest)) ///
258     ytitle("Number of Patients") ///
259     bar(1, bcolor(dkgreen)) bar(2, bcolor(red)) bar(3, bcolor(blue
)) ///
260     bar(4, bcolor(purple))
261
262     /* have to manually expand legend */
263
264
265   /* Financial toxicity Paragraph */
266
267   foreach var of varlist ft_savings ft_necessities ft_collection
ft_bankruptcy ///
268     ft_medcare ft_meds ft_job ft_work ft_timeoff ft_rehab
ft_equipment {
269     gen fin_`var' = (`var'==1) if !missing(`var') & `var'!=8
270     replace fin_`var'=0 if `var'==3
271 }
272
273   tab ft_resources, m
274   tab ft_resources
275   gen ft_drain = ft_resources>1 if !missing(ft_resources)
276   gen ft_drain_mod_plus = ft_resources>2 if !missing(ft_resources)
277
278   ci proportions ft_drain ft_drain_mod_plus
279
280   sum fin_ft_savings fin_ft_necessities fin_ft_collection
fin_ft_bankruptcy ///
281     fin_ft_job fin_ft_work fin_ft_timeoff ///
282     fin_ft_medcare fin_ft_meds fin_ft_rehab fin_ft_equipment
283
284   gen fin_job_change = (ft_job==1) | (ft_work==1) if !missing(ft_job)
& !missing(ft_work)
285   tab fin_job_change, m
286   tab fin_job_change
287
288   tab fin_ft_timeoff
289
290   ci proportions fin_job_change fin_ft_timeoff fin_ft_savings
291
292   xtlogit fin_job_change female age_10 i.raceeth, re or
293   xtlogit fin_job_change female age_10 age_10_2 i.raceeth, re or
294   xtlogit fin_job_change female age_10 age_10_2 i.raceeth los_week
dispo_home, re or
295   xtlogit fin_job_change female age_10 age_10_2 i.raceeth los_week

```

```
    dispo_home new_any, re or
296
297 xtlogit fin_ft_timeoff female age_10 i.raceeth, re or
298 xtlogit fin_ft_timeoff female age_10 age_10_2 i.raceeth, re or
299 xtlogit fin_ft_timeoff female age_10 age_10_2 i.raceeth los_week
    dispo_home, re or
300 xtlogit fin_ft_timeoff female age_10 age_10_2 i.raceeth los_week
    dispo_home new_any, re or
301
302 xtlogit fin_ft_savings female age_10 i.raceeth, re or
303 xtlogit fin_ft_savings female age_10 age_10_2 i.raceeth, re or
304 xtlogit fin_ft_savings female age_10 age_10_2 i.raceeth los_week
    dispo_home, re or
305 xtlogit fin_ft_savings female age_10 age_10_2 i.raceeth los_week
    dispo_home new_any, re or
306
307 gen ft_total = fin_job_change + fin_ft_timeoff + fin_ft_savings +
    ft_drain
308
309 /* can't just run 'em all at once, because of slightly different
    non-responses
310 and if you run them all at once, spearman does casewise deletion
    for any missing.
311 Pattern is same, but it risks confusing readers*/
312
313 spearman new_complaints pt_adl_diff_score
314 spearman new_complaints pt_covidrec
315 spearman new_complaints ft_total
316 spearman pt_adl_diff_score pt_covidrec
317 spearman pt_adl_diff_score ft_total
318 spearman pt_covidrec ft_total
319
```