

\$\$Nearest

call

```
matchit(formula = FallInjuryYN ~ first_amp + AGE + Surgery_binary +  
  num_scores + JHFRAT_48max, data = by.ID, method = "nearest",  
  distance = "glm", caliper = 1, std.caliper = TRUE, ratio = 100)
```

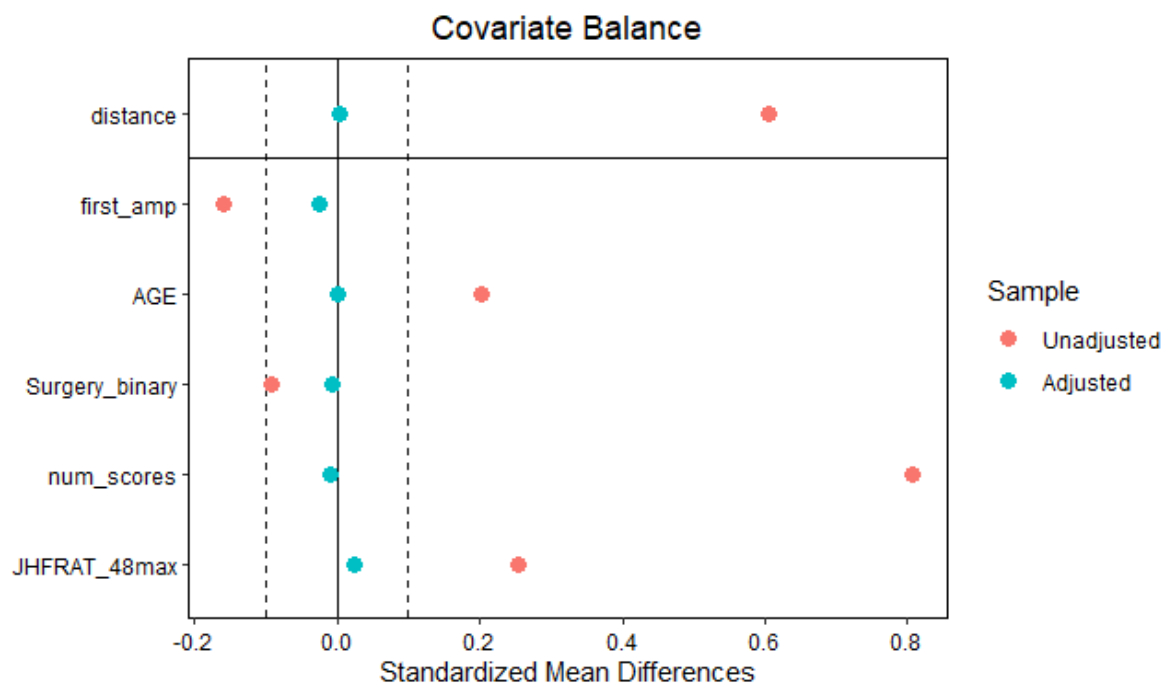
Balance Measures

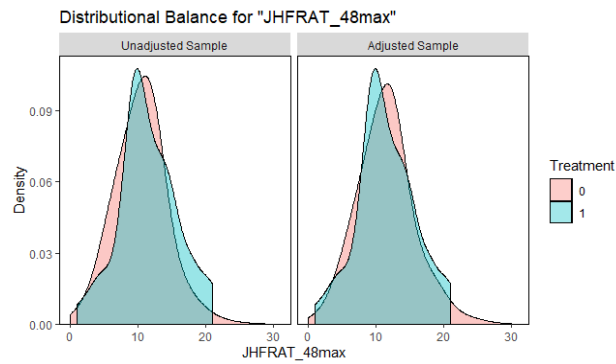
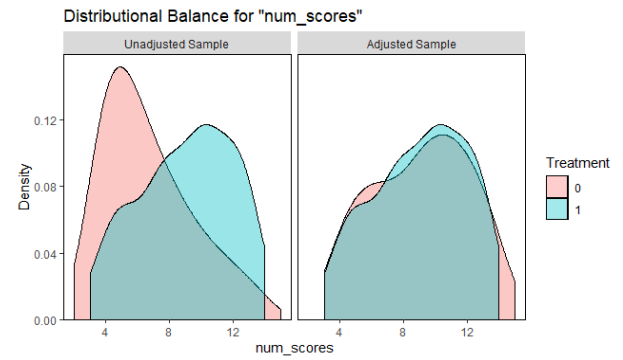
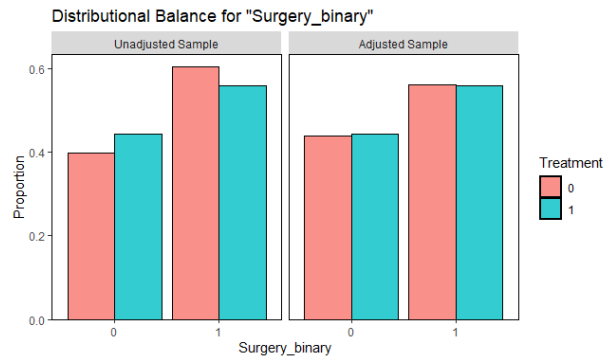
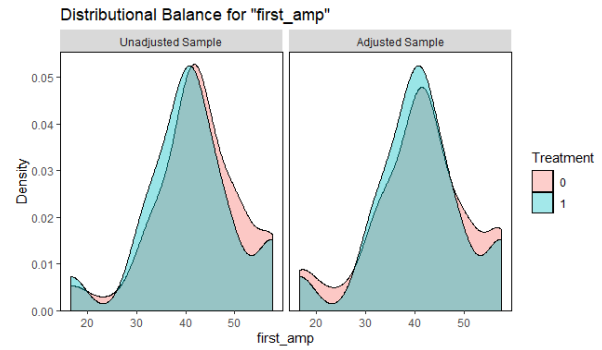
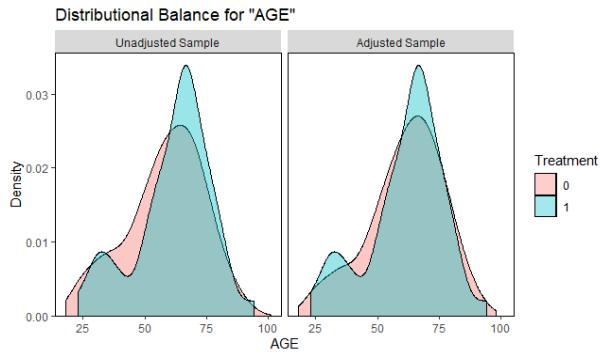
	Type	Diff.Adj
distance	Distance	0.0032
first_amp	Contin.	-0.0240
AGE	Contin.	0.0019
Surgery_binary	Binary	-0.0039
num_scores	Contin.	-0.0086
JHFRAT_48max	Contin.	0.0229

sample sizes

	Control	Treated
All	23401.	52
Matched (ESS)	5048.16	52
Matched (Unweighted)	5139.	52
Unmatched	18262.	0

~ |





Optimal - Caliper Ignored

call

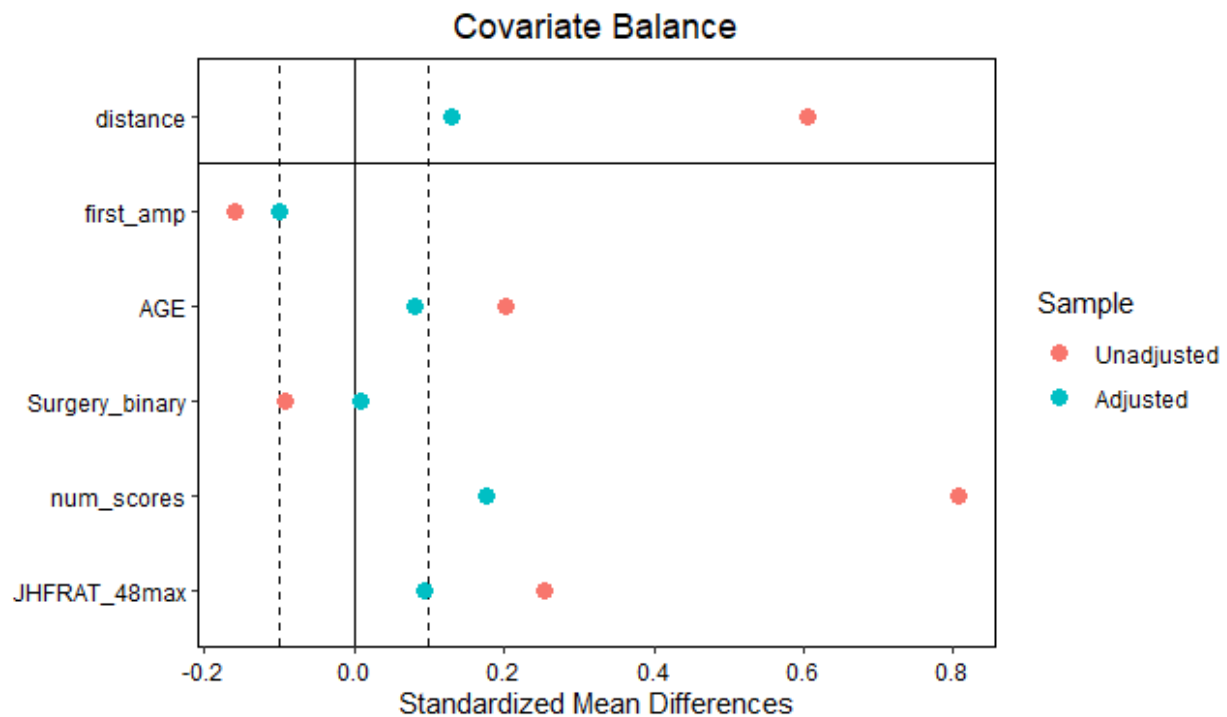
```
matchit(formula = FallInjuryYN ~ first_amp + AGE + Surgery_binary +  
  num_scores + JHFRAT_48max, data = by.ID, method = "optimal",  
  distance = "glm", caliper = 1, std.caliper = TRUE, ratio = 100)
```

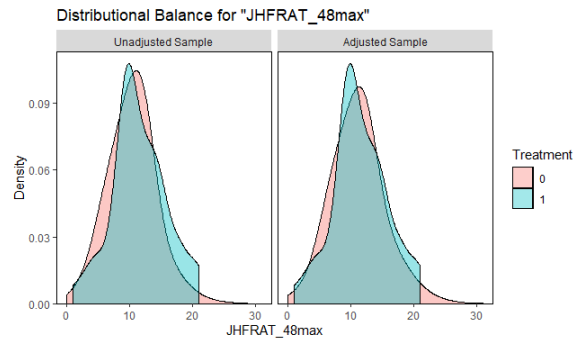
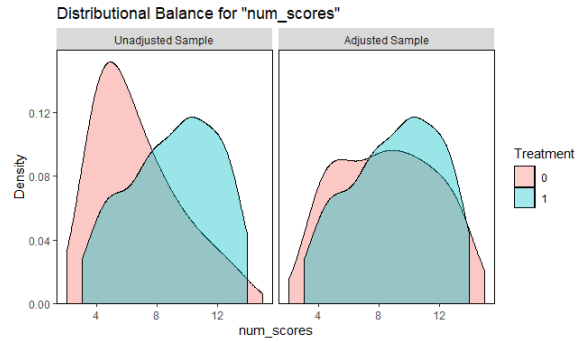
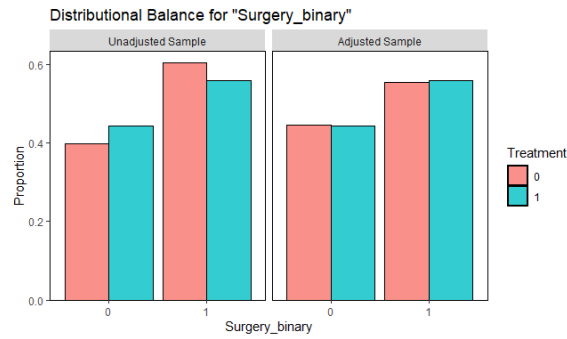
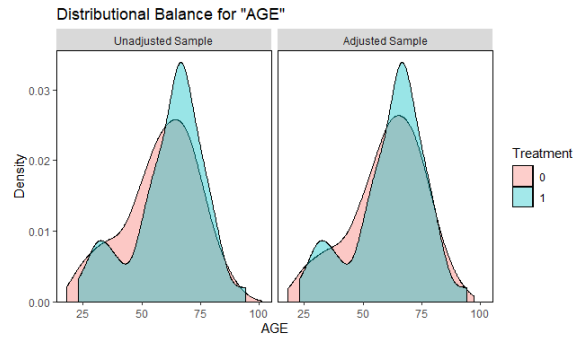
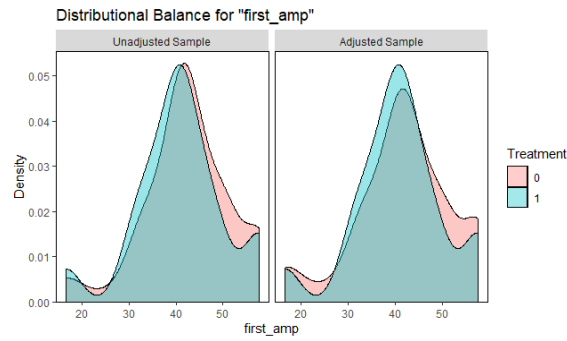
Balance Measures

	Type	Diff.Adj
distance	Distance	0.1294
first_amp	Contin.	-0.0999
AGE	Contin.	0.0817
Surgery_binary	Binary	0.0038
num_scores	Contin.	0.1768
JHFRAT_48max	Contin.	0.0933

Sample sizes

	Control	Treated
All	23401	52
Matched	5200	52
Unmatched	18201	0





Full - Ratio Ignored

Call

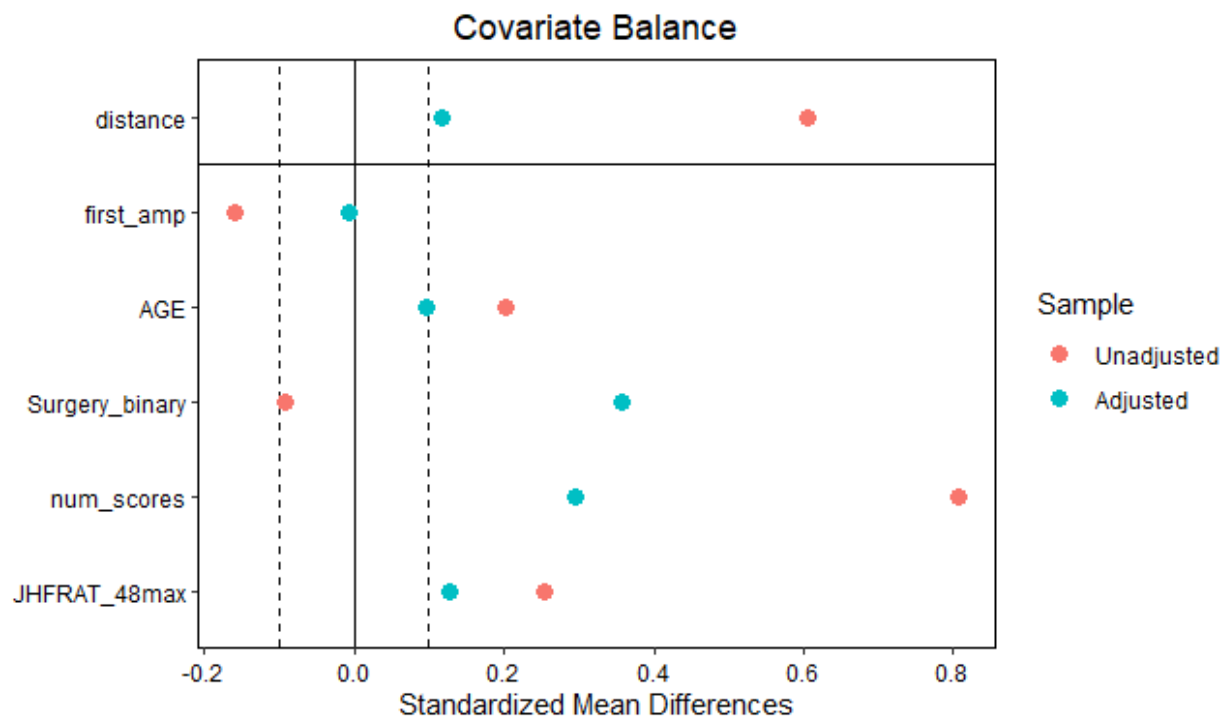
```
matchit(formula = FallInjuryYN ~ first_amp + AGE + Surgery_binary +  
  num_scores + JHFRAT_48max, data = by.ID, method = "full",  
  distance = "glm", caliper = 1, std.caliper = TRUE, ratio = 100)
```

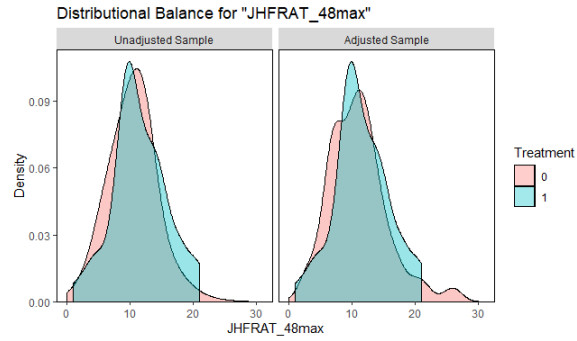
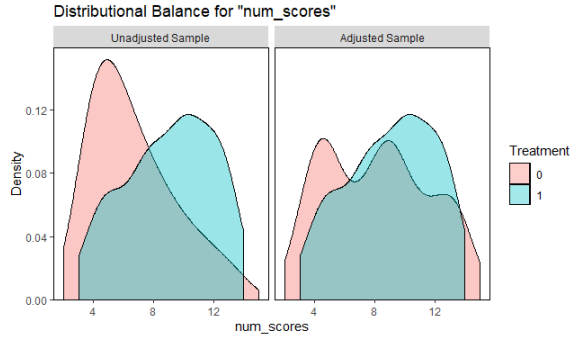
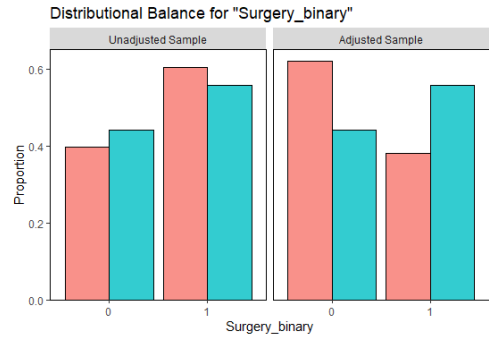
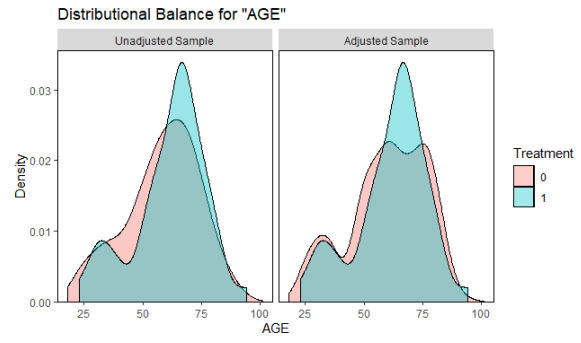
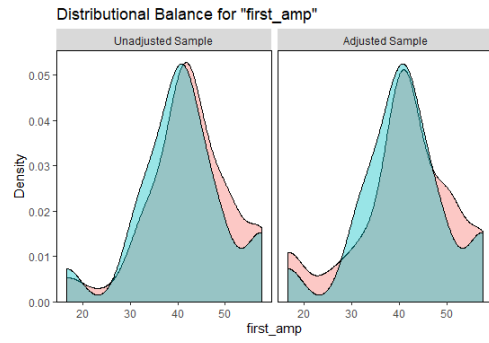
Balance Measures

	Type	Diff.Adj
distance	Distance	0.1168
first_amp	Contin.	-0.0075
AGE	Contin.	0.0963
Surgery_binary	Binary	0.1776
num_scores	Contin.	0.2960
JHFRAT_48max	Contin.	0.1282

Sample sizes

	Control	Treated
All	23401.	52
Matched (ESS)	74.26	52
Matched (Unweighted)	23385.	52
Unmatched	16.	0





Genetic

Call

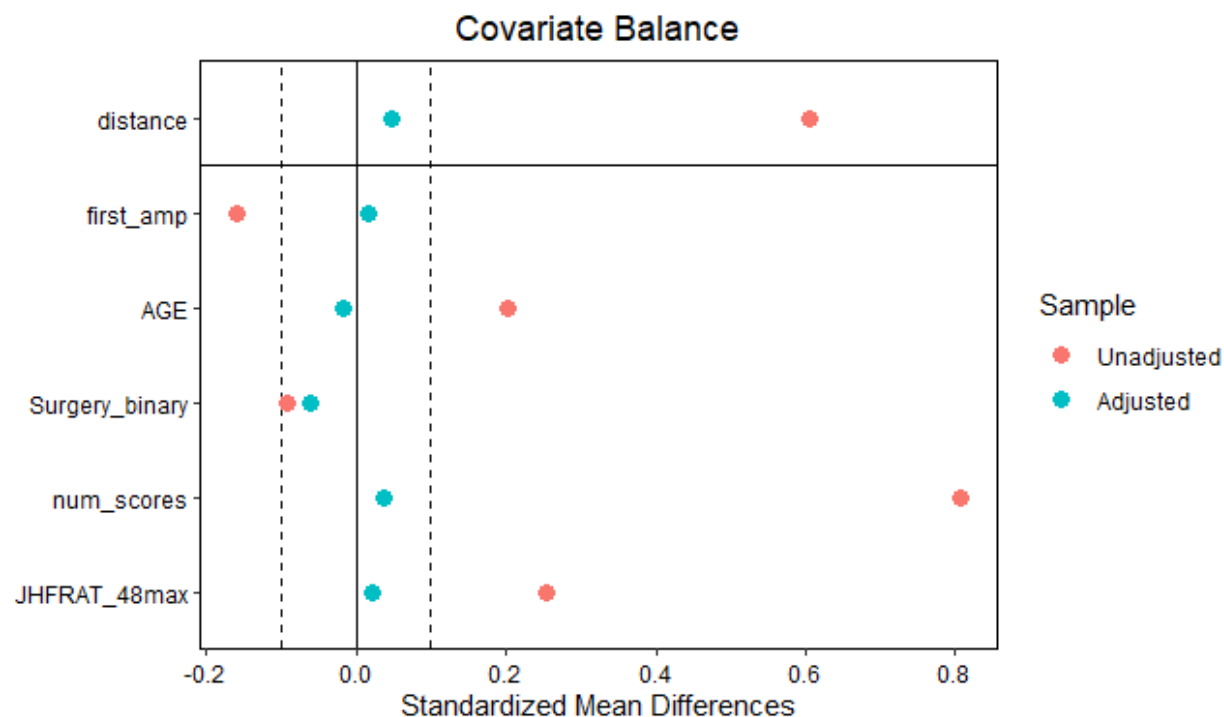
```
matchit(formula = FallInjuryYN ~ first_amp + AGE + Surgery_binary +  
  num_scores + JHFRAT_48max, data = by.ID, method = "genetic",  
  distance = "glm", caliper = 1, std.caliper = TRUE, ratio = 100)
```

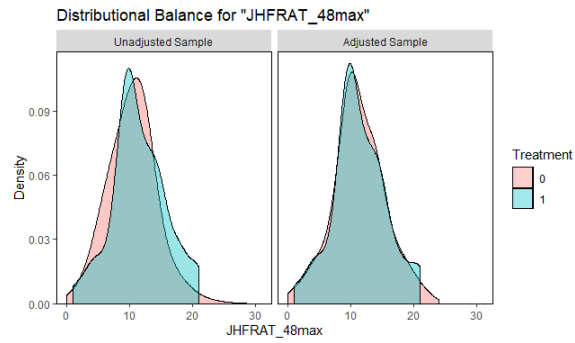
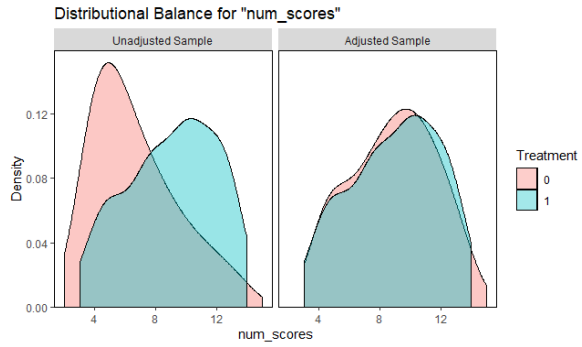
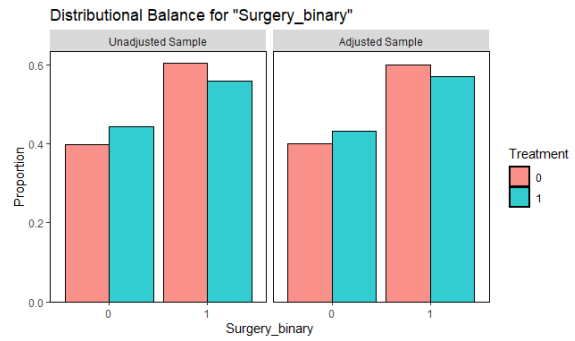
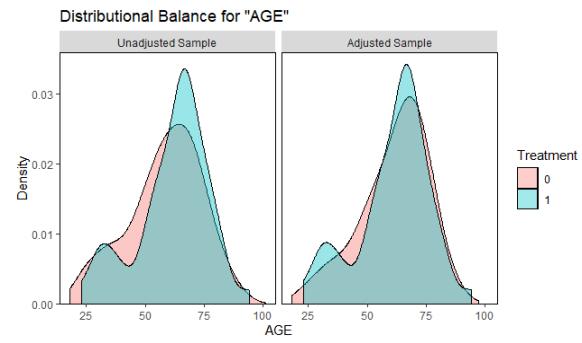
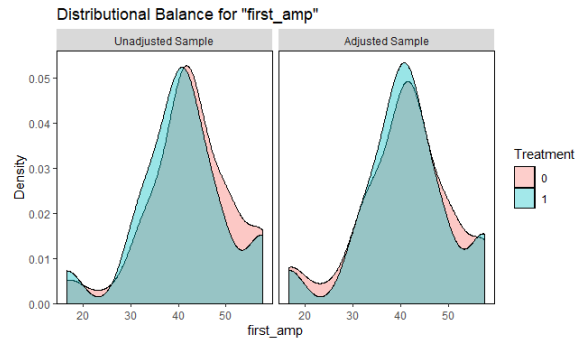
Balance Measures

	Type	Diff.Adj
distance	Distance	0.0478
first_amp	Contin.	0.0165
AGE	Contin.	-0.0181
Surgery_binary	Binary	-0.0304
num_scores	Contin.	0.0373
JHFRAT_48max	Contin.	0.0209

Sample sizes

	Control	Treated
All	23401	52
Matched	5100	51
Unmatched	18301	1





Coarsened exact matching - Distance, Caliper, Ratio ignored

call

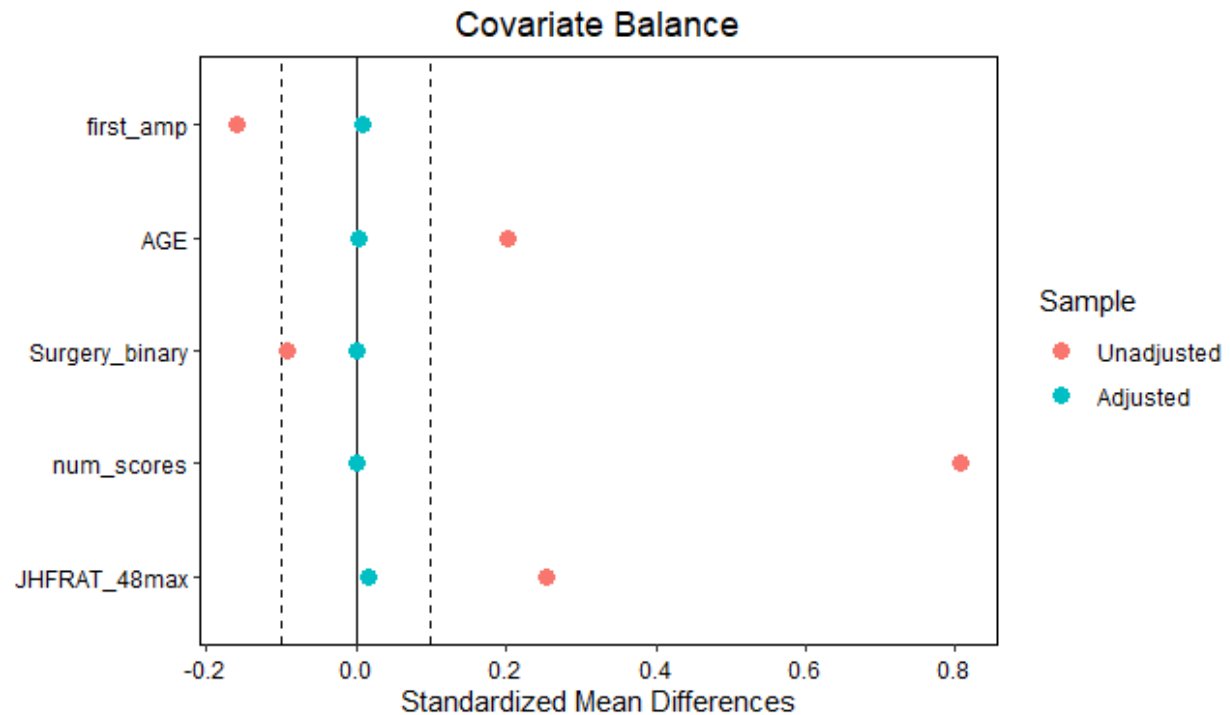
```
matchit(formula = FallInjuryYN ~ first_amp + AGE + Surgery_binary +  
  num_scores + JHFRAT_48max, data = by.ID, method = "cem",  
  distance = "glm", caliper = 1, std.caliper = TRUE, ratio = 100)
```

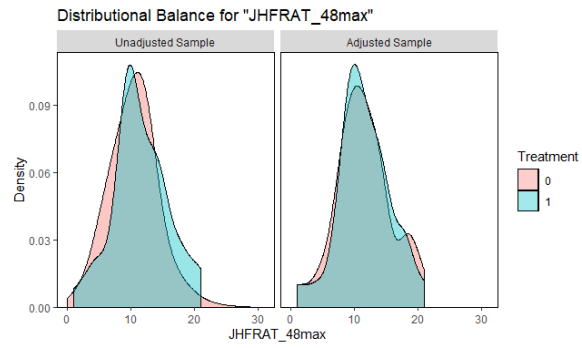
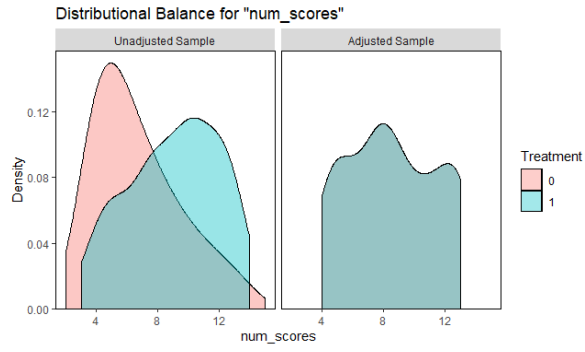
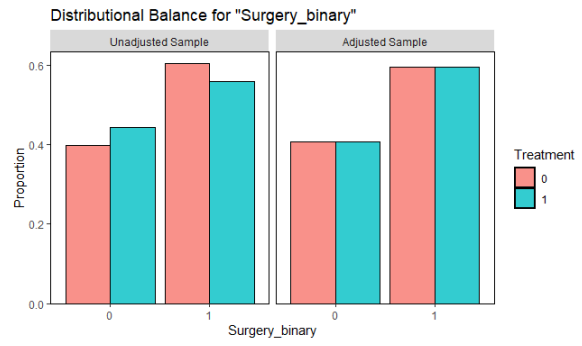
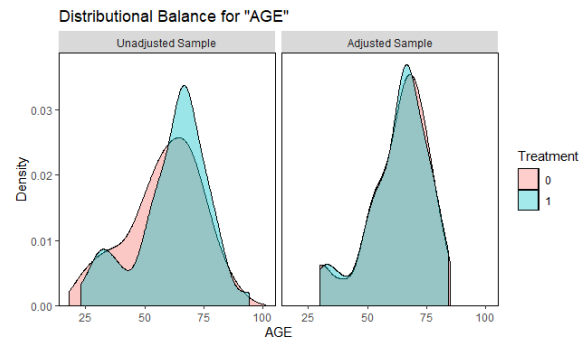
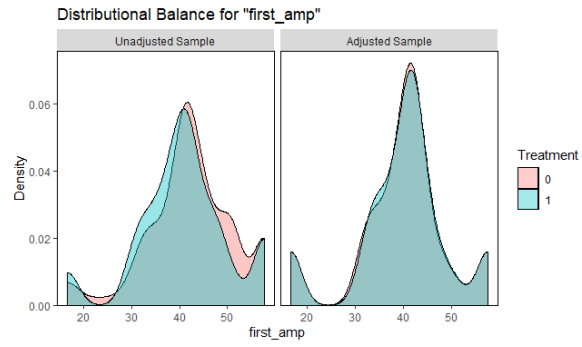
Balance Measures

	Type	Diff.Adj
first_amp	Contin.	0.0097
AGE	Contin.	0.0030
Surgery_binary	Binary	0.0000
num_scores	Contin.	0.0000
JHFRAT_48max	Contin.	0.0152

Sample sizes

	Control	Treated
All	23401.	52
Matched (ESS)	47.97	32
Matched (Unweighted)	96.	32
Unmatched	23305.	20





Subclass - Caliper and Ratio ignored

call

```
matchit(formula = FallInjuryYN ~ first_amp + AGE + Surgery_binary +
  num_scores + JHFRAT_48max, data = by.ID, method = "subclass",
  distance = "glm", caliper = 1, std.caliper = TRUE, ratio = 100)
```

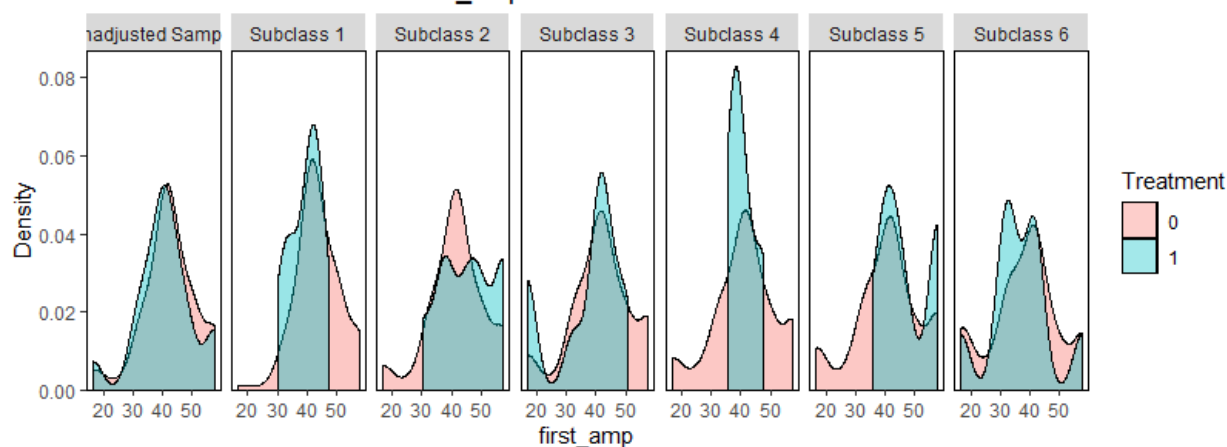
Balance measures across subclasses

	Type	Diff.Adj
distance	Distance	0.0475
first_amp	Contin.	-0.0302
AGE	Contin.	0.0359
Surgery_binary	Binary	-0.0152
num_scores	Contin.	0.0288
JHFRAT_48max	Contin.	0.0431

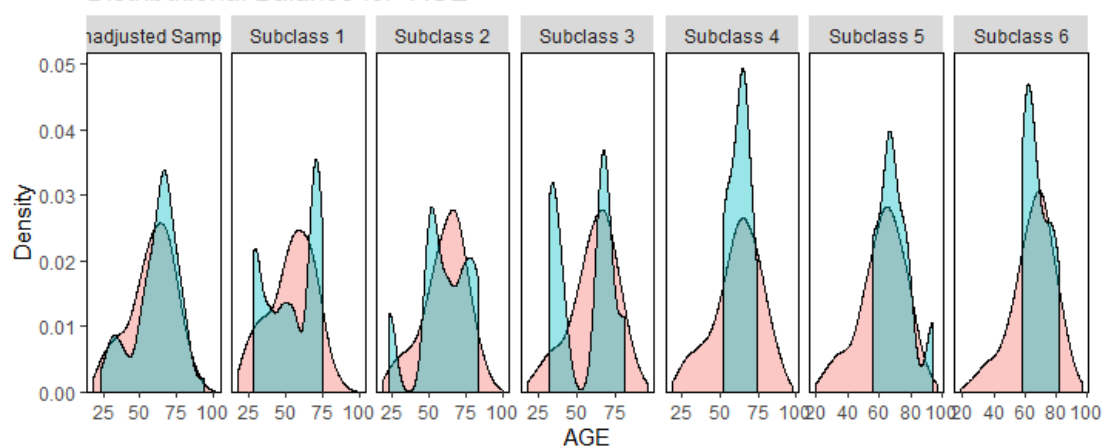
Sample sizes by subclass

	1	2	3	4	5	6	All
Control	10534	5370	3393	1898	935	1271	23401
Treated	9	8	9	8	9	9	52
Total	10543	5378	3402	1906	944	1280	23453

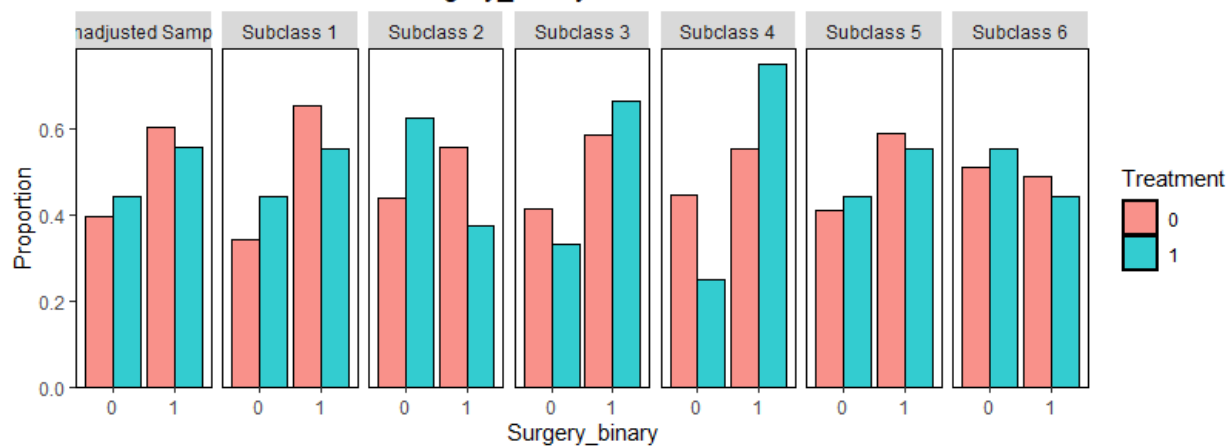
Distributional Balance for "first_amp"



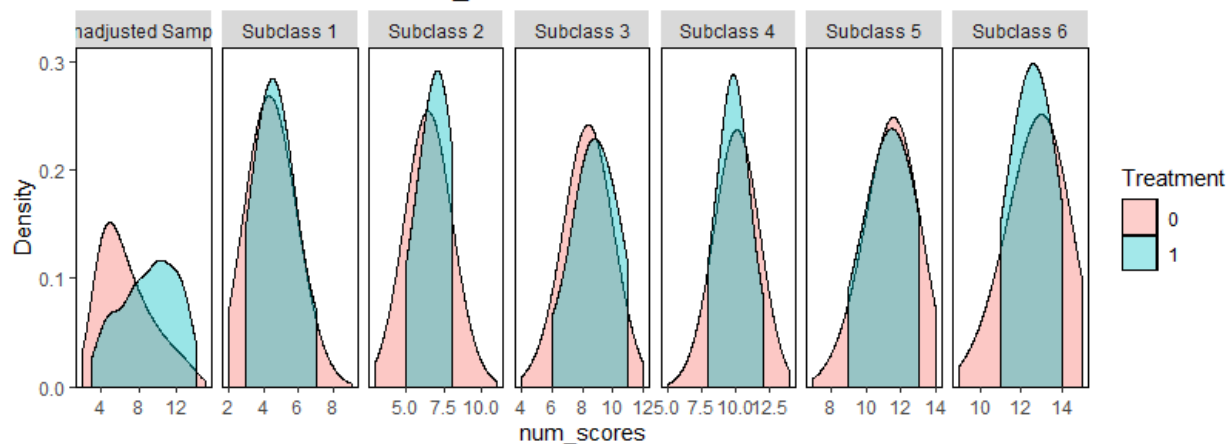
Distributional Balance for "AGE"



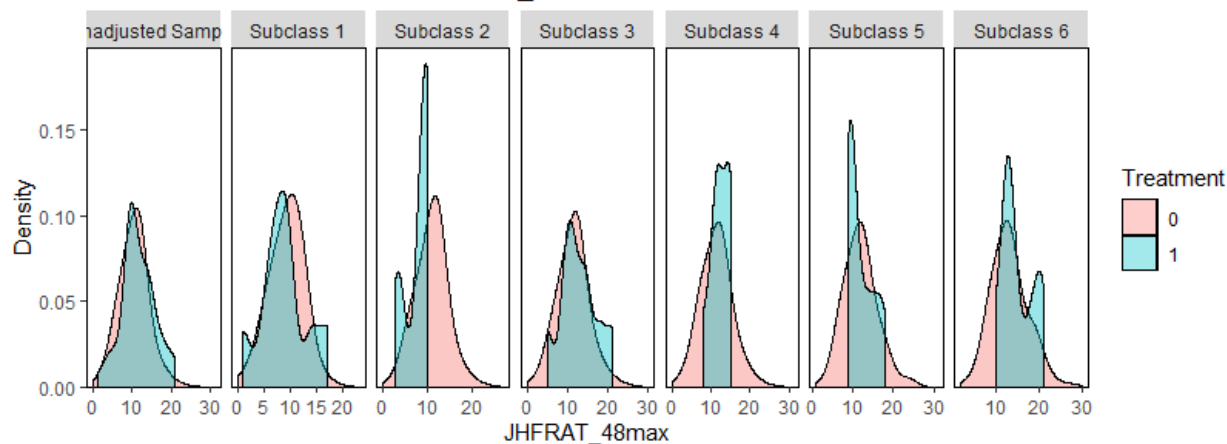
Distributional Balance for "Surgery_binary"



Distributional Balance for "num_scores"



Distributional Balance for "JHFRAT_48max"

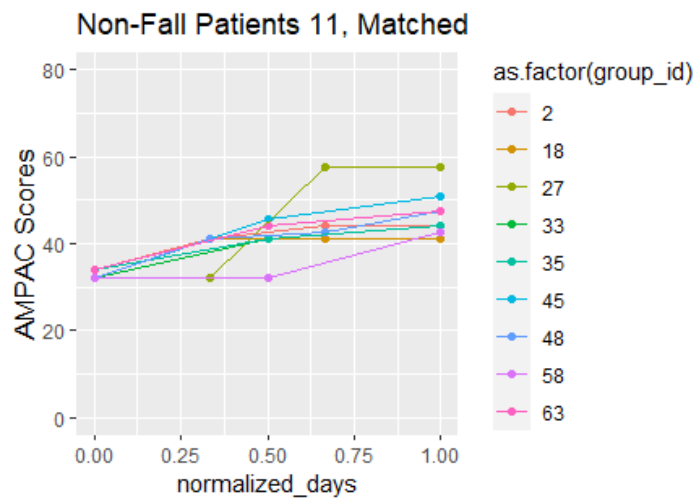
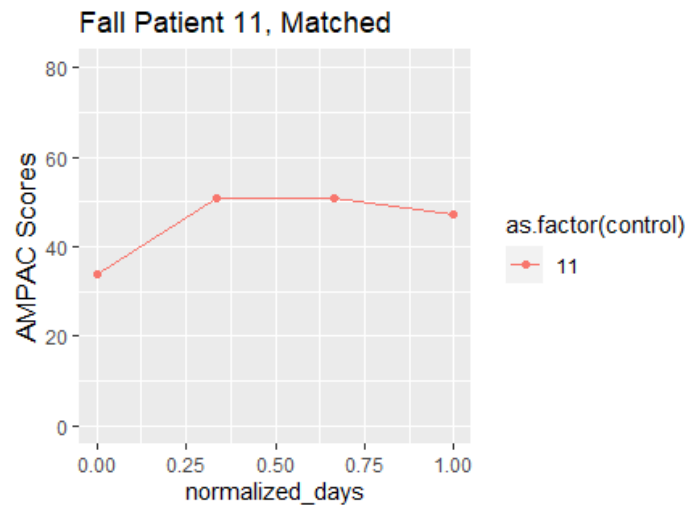


Example Patients - Method - "Coerced Exact Matching"

- 23/52 Fall Patients
- 67 Non-Fall Patients

9 Matches

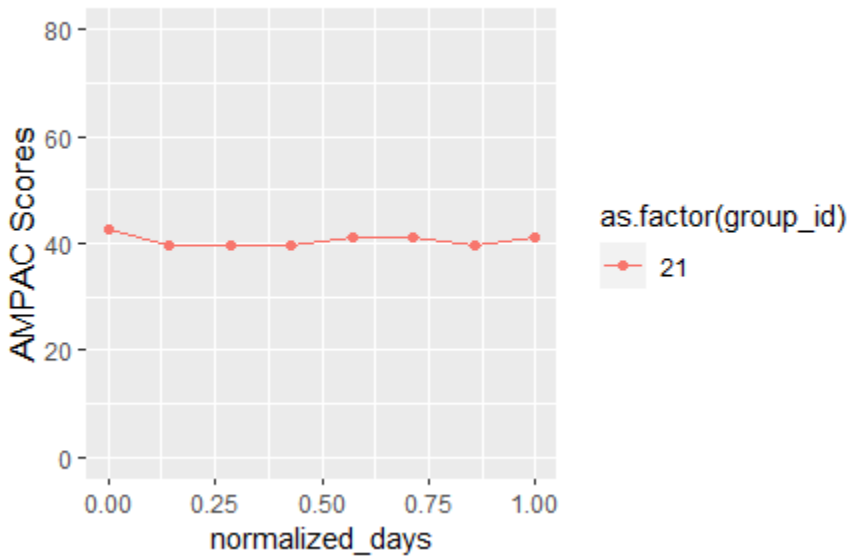
	First AMPAC	Age	Surgery	LOS	JHFRAT_48max
Faller	33.99	48	Y	3.117361	10
Median Values Matched Non-Fallers	32.23	48	Y	3.308	10



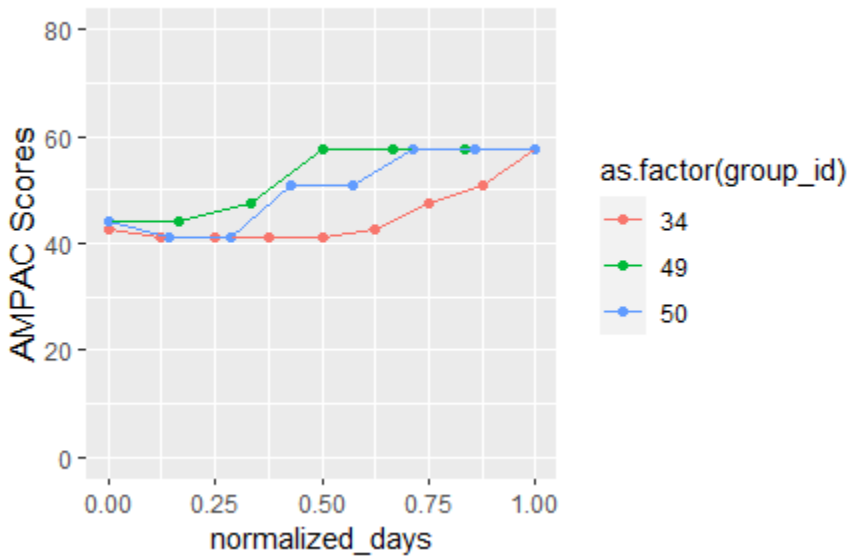
3 Matches

	First AMPAC	Age	Surgery	LOS	JHFRAT_48max
Faller	42.48	66	Y	7.918750	11
Median Values Matched Non-Fallers	43.99	67	Y	8.240	11

Fall Patient 21, Matched



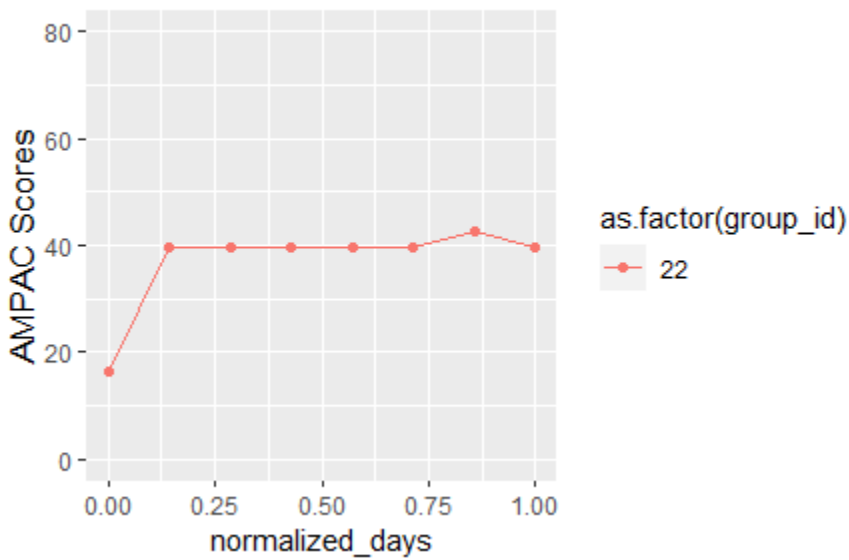
Non-Fall Patients 21, Matched



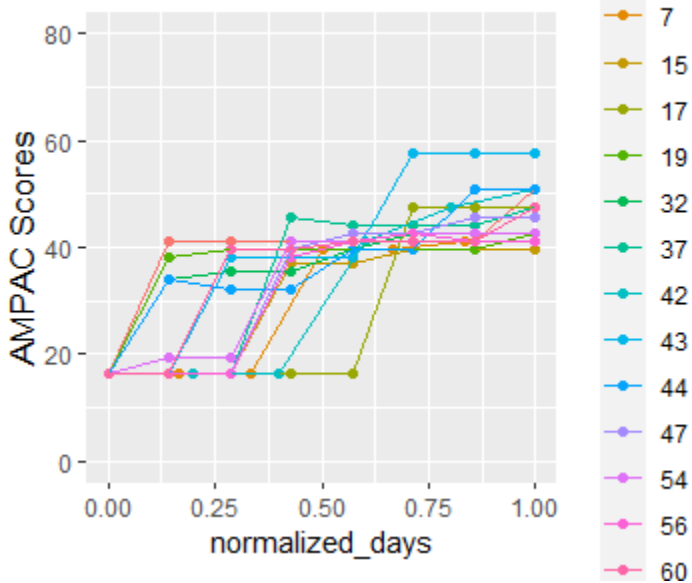
14 Matches

	First AMPAC	Age	Surgery	LOS	JHFRAT_48max
Faller	16.59	71	Y	7.411111	15
Median Values Matched Non-Fallers	16.59	72.50	Y	7.348	14

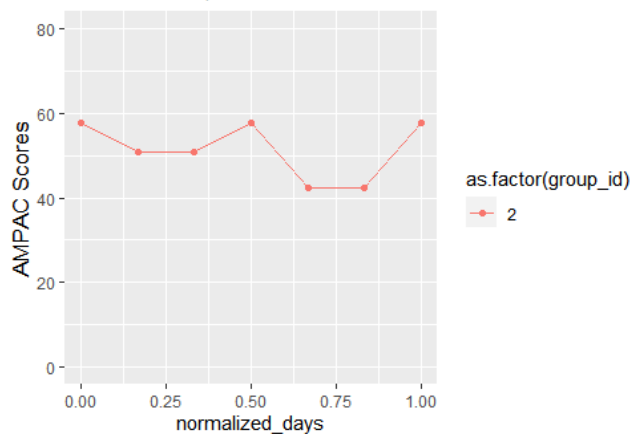
Fall Patient 22, Matched



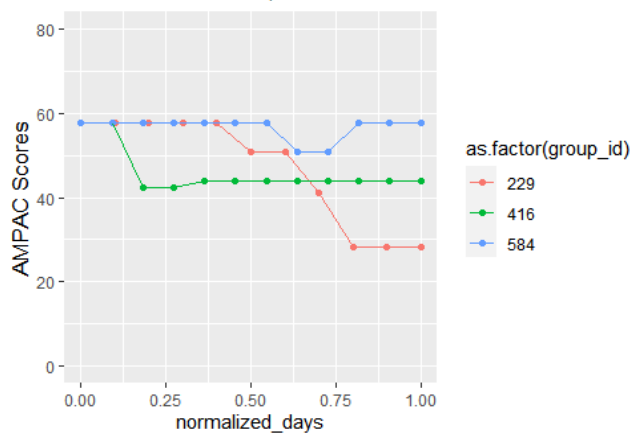
Non-Fall Patients 22, Matched



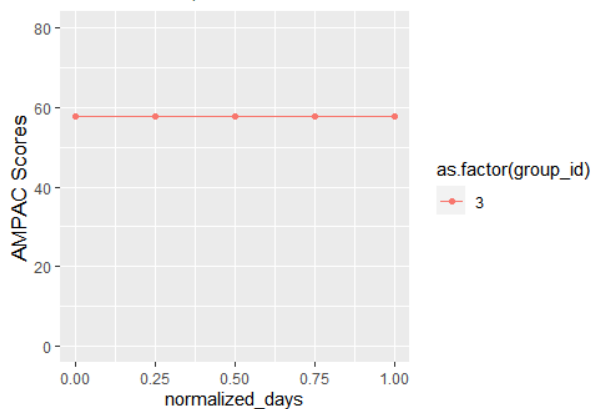
Fall Patient 2, Matched



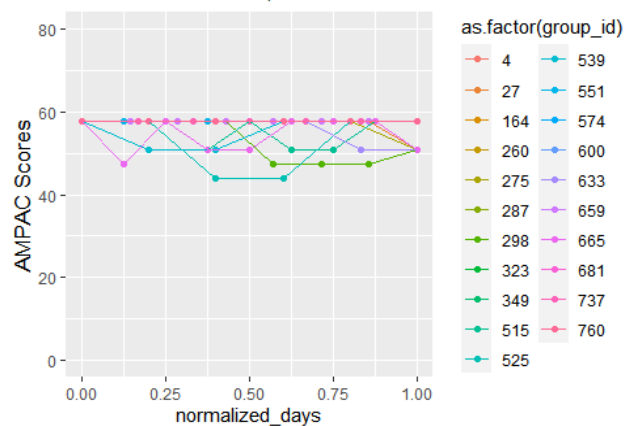
Non-Fall Patients 2, Matched



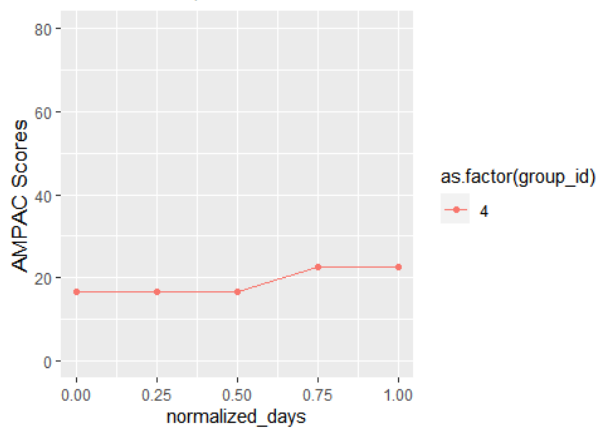
Fall Patient 3, Matched



Non-Fall Patients 3, Matched



Fall Patient 4, Matched



Non-Fall Patients 4, Matched

