

-----BEFORE MATCHING-----

. ttest preop_age , by(psm_robot)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	535	63.36064	.4279121	9.897635	62.52004	64.20123
1	76	62.92105	.9352292	8.15314	61.05798	64.78412
combined	611	63.30596	.3921321	9.692885	62.53586	64.07605
diff		.4395829	1.189043		-1.895539	2.774705

diff = mean(0) - mean(1) t = 0.3697
 Ho: diff = 0 degrees of freedom = 609

Ha: diff < 0 Pr(T < t) = 0.6441
 Ha: diff != 0 Pr(|T| > |t|) = 0.7117
 Ha: diff > 0 Pr(T > t) = 0.3559

. ttest preop_height , by(psm_robot)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	535	1.769428	.0037804	.0874405	1.762002	1.776854
1	76	1.768289	.0085929	.0749113	1.751172	1.785407
combined	611	1.769286	.0034762	.0859264	1.76246	1.776113
diff		.0011386	.0105418		-.0195642	.0218413

diff = mean(0) - mean(1) t = 0.1080
 Ho: diff = 0 degrees of freedom = 609

Ha: diff < 0 Pr(T < t) = 0.5430
 Ha: diff != 0 Pr(|T| > |t|) = 0.9140
 Ha: diff > 0 Pr(T > t) = 0.4570

. ttest preop_weight , by(psm_robot)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	535	84.62131	.7906777	18.28843	83.06809	86.17453
1	76	79.30263	1.645011	14.34087	76.0256	82.57966
combined	611	83.95974	.7250121	17.92115	82.53592	85.38356
diff		5.318677	2.188076		1.021587	9.615767

diff = mean(0) - mean(1) t = 2.4308
 Ho: diff = 0 degrees of freedom = 609

Ha: diff < 0 Pr(T < t) = 0.9923
 Ha: diff != 0 Pr(|T| > |t|) = 0.0154
 Ha: diff > 0 Pr(T > t) = 0.0077

. ttest preop_bmi , by(psm_robot)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	535	26.90336	.2133744	4.935363	26.48421	27.32252
1	76	25.28916	.455627	3.972064	24.3815	26.19681
combined	611	26.70258	.1963128	4.852541	26.31705	27.08811
diff		1.614207	.591732		.4521236	2.77629

diff = mean(0) - mean(1) t = 2.7279
 Ho: diff = 0 degrees of freedom = 609

Ha: diff < 0 Pr(T < t) = 0.9967
 Ha: diff != 0 Pr(|T| > |t|) = 0.0066
 Ha: diff > 0 Pr(T > t) = 0.0033

. ttest preop_crea_tot , by(psm_robot)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	535	.8835383	.0094569	.2187392	.864961	.9021157
1	76	.83075	.0207628	.1810063	.7893883	.8721117
combined	611	.8769722	.0086973	.2149834	.8598919	.8940525
diff		.0527883	.0262885		.0011613	.1044154

diff = mean(0) - mean(1) t = 2.0080
Ho: diff = 0 degrees of freedom = 609

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.9775 Pr(|T| > |t|) = 0.0451 Pr(T > t) = 0.0225

. ttest preop_gfr_tot , by(psm_robot)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	535	85.59911	.7828956	18.10843	84.06118	87.13705
1	76	90.04455	2.153981	18.77797	85.7536	94.3355
combined	611	86.15206	.7377699	18.2365	84.70319	87.60094
diff		-4.44544	2.23009		-8.825041	-.0658397

diff = mean(0) - mean(1) t = -1.9934
Ho: diff = 0 degrees of freedom = 609

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0233 Pr(|T| > |t|) = 0.0467 Pr(T > t) = 0.9767

. ttest preop_quick_tot , by(psm_robot)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	535	106.8875	.6595028	15.25434	105.592	108.183
1	76	107.25	1.423503	12.40981	104.4142	110.0858
combined	611	106.9326	.6036613	14.92155	105.7471	108.1181
diff		-.3624953	1.830599		-3.957548	3.232557

diff = mean(0) - mean(1) t = -0.1980
Ho: diff = 0 degrees of freedom = 609

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.4215 Pr(|T| > |t|) = 0.8431 Pr(T > t) = 0.5785

. ttest preop_albumin_tot , by(psm_robot)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	535	39.90129	.1856283	4.293594	39.53664	40.26594
1	76	40.26274	.4071059	3.549067	39.45174	41.07373
combined	611	39.94625	.1702076	4.207263	39.61198	40.28051
diff		-.361449	.5159623		-1.37473	.6518323

diff = mean(0) - mean(1) t = -0.7005
Ho: diff = 0 degrees of freedom = 609

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.2419 Pr(|T| > |t|) = 0.4839 Pr(T > t) = 0.7581

. ttest preop_bilirubin_tot , by(psm_robot)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	535	.4455589	.0099258	.2295839	.4260605	.4650572
1	76	.4324868	.0222062	.1935889	.3882499	.4767238
combined	611	.4439329	.0091154	.225318	.4260315	.4618343
diff		.013072	.0276382		-.0412057	.0673497

diff = mean(0) - mean(1) t = 0.4730
Ho: diff = 0 degrees of freedom = 609

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.6818 Pr(|T| > |t|) = 0.6364 Pr(T > t) = 0.3182

. ttest preop_platelet_tot , by(psm_robot)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	535	244.1798	3.630513	83.97401	237.048	251.3117
1	76	238.0789	8.69934	75.83909	220.749	255.4089
combined	611	243.421	3.356673	82.97162	236.8289	250.013
diff		6.100888	10.17641		-13.88423	26.08601

diff = mean(0) - mean(1) t = 0.5995
Ho: diff = 0 degrees of freedom = 609

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.7255 Pr(|T| > |t|) = 0.5491 Pr(T > t) = 0.2745

. ttest preop_leuko_tot , by(psm_robot)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	535	6.39515	.1094007	2.530446	6.180241	6.610058
1	76	5.996974	.2378569	2.073588	5.523138	6.470809
combined	611	6.345622	.1003378	2.48019	6.148573	6.542671
diff		.3981758	.3038553		-.1985554	.9949071

diff = mean(0) - mean(1) t = 1.3104
 Ho: diff = 0 degrees of freedom = 609

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.9047 Pr(|T| > |t|) = 0.1906 Pr(T > t) = 0.0953

. ttest preop_fev1_tot , by(psm_robot)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	535	3.054955	.0342746	.7927748	2.987625	3.122285
1	76	3.160789	.0774698	.6753661	3.006462	3.315117
combined	611	3.068119	.0315318	.7794165	3.006195	3.130044
diff		-.1058343	.0955269		-.2934364	.0817677

diff = mean(0) - mean(1) t = -1.1079
 Ho: diff = 0 degrees of freedom = 609

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.1342 Pr(|T| > |t|) = 0.2683 Pr(T > t) = 0.8658

. ttest preop_vc_tot , by(psm_robot)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	535	3.890011	.0405159	.9371364	3.810421	3.969601
1	76	4.135974	.1009466	.8800325	3.934878	4.33707
combined	611	3.920606	.0377481	.9330737	3.846474	3.994738
diff		-.2459625	.1140399		-.4699216	-.0220033

diff = mean(0) - mean(1) t = -2.1568
 Ho: diff = 0 degrees of freedom = 609

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.0157 Pr(|T| > |t|) = 0.0314 Pr(T > t) = 0.9843

. tabulate psm_robot preop_sex , chi2

psm_robot	preop_sex		Total
	0	1	
0	453	82	535
1	61	15	76
Total	514	97	611

Pearson chi2(1) = 0.9689 Pr = 0.325

. tabulate psm_robot preop_liver , chi2

psm_robot	preop_liver		Total
	0	1	
0	505	30	535
1	72	4	76
Total	577	34	611

Pearson chi2(1) = 0.0150 Pr = 0.902

. tabulate psm_robot preop_khk , chi2

psm_robot	preop_khk		Total
	0	1	
0	461	74	535
1	69	7	76
Total	530	81	611

Pearson chi2(1) = 1.2359 Pr = 0.266

. tabulate psm_robot preop_vhf , chi2

psm_robot	preop_vhf		Total
	0	1	
0	493	42	535

1	70	6	76
Total	563	48	611

Pearson chi2(1) = 0.0002 Pr = 0.989

. tabulate psm_robot preop_mi , chi2

psm_robot	preop_mi		Total
	0	1	
0	490	45	535
1	72	4	76
Total	562	49	611

Pearson chi2(1) = 0.8940 Pr = 0.344

. tabulate psm_robot preop_revasc , chi2

psm_robot	preop_revasc		Total
	0	1	
0	496	39	535
1	73	3	76
Total	569	42	611

Pearson chi2(1) = 1.1613 Pr = 0.281

. tabulate psm_robot preop_aht , chi2

psm_robot	preop_aht		Total
	0	1	
0	229	306	535
1	45	31	76
Total	274	337	611

Pearson chi2(1) = 7.2423 Pr = 0.007

. tabulate psm_robot preop_pavk , chi2

psm_robot	preop_pavk		Total
	0	1	
0	514	21	535
1	75	1	76
Total	589	22	611

Pearson chi2(1) = 1.3055 Pr = 0.253

. tabulate psm_robot preop_diabetes , chi2

psm_robot	preop_diabetes		Total
	0	1	
0	468	67	535
1	69	7	76
Total	537	74	611

Pearson chi2(1) = 0.6861 Pr = 0.407

. tabulate psm_robot preop_weightloss_bin , chi2

psm_robot	preop_weightloss_bin		Total
	0	1	
0	410	125	535
1	59	17	76
Total	469	142	611

Pearson chi2(1) = 0.0370 Pr = 0.847

. tabulate psm_robot preop_diag , chi2

psm_robot	preop_diag		Total
	0	1	
0	432	103	535
1	58	18	76
Total	490	121	611

Pearson chi2(1) = 0.8230 Pr = 0.364

. tabulate psm_robot preop_platelet_bin , chi2

psm_robot	preop_platelet_bin		Total
	0	1	
0	505	30	535
1	68	8	76
Total	573	38	611

Pearson chi2(1) = 2.7605 Pr = 0.097

```
. tabulate psm_robot preop_leuko_bin , chi2
```

psm_robot	preop_leuko_bin		Total
	0	1	
0	484	51	535
1	60	16	76
Total	544	67	611

Pearson chi2(1) = 9.0455 Pr = 0.003

```
. tabulate psm_robot preop_fev1_bin , chi2
```

psm_robot	preop_fev1_bin		Total
	0	1	
0	411	124	535
1	64	12	76
Total	475	136	611

Pearson chi2(1) = 2.0991 Pr = 0.147

```
. tabulate psm_robot preop_vc_bin , chi2
```

psm_robot	preop_vc_bin		Total
	0	1	
0	428	107	535
1	68	8	76
Total	496	115	611

Pearson chi2(1) = 3.9090 Pr = 0.048

```
. ranksum preop_smoke , by(psm_robot)
```

Two-sample Wilcoxon rank-sum (Mann-Whitney) test

psm_robot	obs	rank sum	expected
0	535	166571	163710
1	76	20395	23256
combined	611	186966	186966

unadjusted variance 2073660.00

adjustment for ties -312340.28

adjusted variance 1761319.72

Ho: preop~ke(psm_ro~t==0) = preop~ke(psm_ro~t==1)

z = 2.156

Prob > |z| = 0.0311

```
. ranksum preop_alcohol , by(psm_robot)
```

Two-sample Wilcoxon rank-sum (Mann-Whitney) test

psm_robot	obs	rank sum	expected
0	535	166451	163710
1	76	20515	23256
combined	611	186966	186966

unadjusted variance 2073660.00

adjustment for ties -473888.75

adjusted variance 1599771.25

Ho: preop~l(psm_ro~t==0) = preop~l(psm_ro~t==1)

z = 2.167

Prob > |z| = 0.0302

```
. ranksum preop_neoadj , by(psm_robot)
```

Two-sample Wilcoxon rank-sum (Mann-Whitney) test

psm_robot	obs	rank sum	expected
0	535	165254	163710
1	76	21712	23256
combined	611	186966	186966

unadjusted variance 2073660.00

adjustment for ties -440384.59

adjusted variance 1633275.41

Ho: preop~j(psm_ro~t==0) = preop~j(psm_ro~t==1)

z = 1.208

Prob > |z| = 0.2270

```
. ranksum preop_tstage , by(psm_robot)
```

Two-sample Wilcoxon rank-sum (Mann-Whitney) test

psm_robot	obs	rank sum	expected
0	535	164891.5	163710
1	76	22074.5	23256
combined	611	186966	186966

unadjusted variance 2073660.00
 adjustment for ties -1.18e+06
 adjusted variance 893275.80

Ho: pre~tage(psm_ro~t==0) = pre~tage(psm_ro~t==1)
 z = 1.250
 Prob > |z| = 0.2113

. ranksum preop_asa , by(psm_robot)

Two-sample Wilcoxon rank-sum (Mann-Whitney) test

psm_robot	obs	rank sum	expected
0	535	153710	163710
1	76	33256	23256
combined	611	186966	186966

unadjusted variance 2073660.00
 adjustment for ties -346127.65
 adjusted variance 1727532.35

Ho: preop~a(psm_ro~t==0) = preop~a(psm_ro~t==1)
 z = -7.608
 Prob > |z| = 0.0000

. ranksum preop_ecog , by(psm_robot)

Two-sample Wilcoxon rank-sum (Mann-Whitney) test

psm_robot	obs	rank sum	expected
0	535	168959	163710
1	76	18007	23256
combined	611	186966	186966

unadjusted variance 2073660.00
 adjustment for ties -463553.89
 adjusted variance 1610106.11

Ho: preop~og(psm_ro~t==0) = preop~og(psm_ro~t==1)
 z = 4.137
 Prob > |z| = 0.0000

. ranksum preop_copd , by(psm_robot)

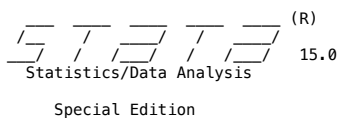
Two-sample Wilcoxon rank-sum (Mann-Whitney) test

psm_robot	obs	rank sum	expected
0	535	164854.5	163710
1	76	22111.5	23256
combined	611	186966	186966

unadjusted variance 2073660.00
 adjustment for ties -1.57e+06
 adjusted variance 501643.45

Ho: preop~d(psm_ro~t==0) = preop~d(psm_ro~t==1)
 z = 1.616
 Prob > |z| = 0.1061

.



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-----AFTER MATCHING-----

. ttest preop_age , by(psm_robot)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	71	62.83099	1.142905	9.630288	60.55153	65.11044
1	71	62.59155	.9719564	8.18985	60.65304	64.53006
combined	142	62.71127	.7475583	8.908185	61.2334	64.18914
diff		.2394366	1.50031		-2.726757	3.205631

diff = mean(0) - mean(1) t = 0.1596
 Ho: diff = 0 degrees of freedom = 140

Ha: diff < 0 Pr(T < t) = 0.5633
 Ha: diff != 0 Pr(|T| > |t|) = 0.8734
 Ha: diff > 0 Pr(T > t) = 0.4367

. ttest preop_height , by(psm_robot)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	71	1.758352	.01095	.0922664	1.736513	1.780191
1	71	1.771268	.0087462	.0736969	1.753824	1.788711
combined	142	1.76481	.0070034	.0834548	1.750965	1.778655
diff		-.0129155	.0140142		-.0406224	.0147914

diff = mean(0) - mean(1) t = -0.9216
 Ho: diff = 0 degrees of freedom = 140

Ha: diff < 0 Pr(T < t) = 0.1792
 Ha: diff != 0 Pr(|T| > |t|) = 0.3583
 Ha: diff > 0 Pr(T > t) = 0.8208

. ttest preop_weight , by(psm_robot)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	71	86.10845	2.30304	19.40576	81.51518	90.70172
1	71	80.30986	1.605554	13.52864	77.10768	83.51204
combined	142	83.20915	1.419891	16.91996	80.40213	86.01618
diff		5.798592	2.807454		.248104	11.34908

diff = mean(0) - mean(1) t = 2.0654
 Ho: diff = 0 degrees of freedom = 140

Ha: diff < 0 Pr(T < t) = 0.9796
 Ha: diff != 0 Pr(|T| > |t|) = 0.0407
 Ha: diff > 0 Pr(T > t) = 0.0204

. ttest preop_bmi , by(psm_robot)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	71	27.74558	.6651121	5.604335	26.41905	29.0721
1	71	25.55742	.4542892	3.827909	24.65137	26.46347
combined	142	26.6515	.411737	4.906412	25.83752	27.46548
diff		2.188155	.8054519		.5957332	3.780577

diff = mean(0) - mean(1) t = 2.7167
 Ho: diff = 0 degrees of freedom = 140

Ha: diff < 0 Pr(T < t) = 0.9963
 Ha: diff != 0 Pr(|T| > |t|) = 0.0074
 Ha: diff > 0 Pr(T > t) = 0.0037

. ttest preop_crea_tot , by(psm_robot)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	71	.8885915	.0236459	.1992435	.8414314	.9357517
1	71	.8395352	.021503	.1811879	.7966487	.8824217
combined	142	.8640634	.0160572	.1913432	.8323195	.8958073
diff		.0490563	.031961		-.0141323	.112245

diff = mean(0) - mean(1) t = 1.5349
 Ho: diff = 0 degrees of freedom = 140

Ha: diff < 0 Pr(T < t) = 0.9365
 Ha: diff != 0 Pr(|T| > |t|) = 0.1271
 Ha: diff > 0 Pr(T > t) = 0.0635

. ttest preop_gfr_tot , by(psm_robot)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	71	85.09634	1.922689	16.20087	81.26166	88.93102
1	71	89.86459	2.274332	19.16386	85.32858	94.4006
combined	142	87.48046	1.497303	17.84243	84.5204	90.44053

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-----+-----
diff |          -4.768254   2.978141                -10.6562   1.11969
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```

```
diff = mean(0) - mean(1)                t = -1.6011
Ho: diff = 0                            degrees of freedom = 140
```

```
Ha: diff < 0                Ha: diff != 0                Ha: diff > 0
Pr(T < t) = 0.0558          Pr(|T| > |t|) = 0.1116          Pr(T > t) = 0.9442
```

```
. ttest preop_quick_tot , by(psm_robot)
```

```
Two-sample t test with equal variances
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Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
0 |      71   108.0423   1.852448   15.60901   104.3477   111.7368
1 |      71   107.5352   1.201748   10.12611   105.1384   109.932
-----+-----
```

```
combined |      142   107.7887   1.100341   13.11208   105.6134   109.964
-----+-----
```

```
diff |          .5070423   2.208113                -3.858515   4.8726
-----+-----
```

```
diff = mean(0) - mean(1)                t = 0.2296
Ho: diff = 0                            degrees of freedom = 140
```

```
Ha: diff < 0                Ha: diff != 0                Ha: diff > 0
Pr(T < t) = 0.5906          Pr(|T| > |t|) = 0.8187          Pr(T > t) = 0.4094
```

```
. ttest preop_albumin_tot , by(psm_robot)
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```
Two-sample t test with equal variances
```

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-----+-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
0 |      71   40.27406   .4747842   4.000602   39.32713   41.22098
1 |      71   40.29532   .4223973   3.559183   39.45288   41.13777
-----+-----
```

```
combined |      142   40.28469   .3166143   3.772895   39.65877   40.91061
-----+-----
```

```
diff |          -.0212676   .6354836                -1.277653   1.235118
-----+-----
```

```
diff = mean(0) - mean(1)                t = -0.0335
Ho: diff = 0                            degrees of freedom = 140
```

```
Ha: diff < 0                Ha: diff != 0                Ha: diff > 0
Pr(T < t) = 0.4867          Pr(|T| > |t|) = 0.9734          Pr(T > t) = 0.5133
```

```
. ttest preop_bilirubin_tot , by(psm_robot)
```

```
Two-sample t test with equal variances
```

```
-----+-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
0 |      71   .4756338   .0342012   .2881845   .4074217   .543846
1 |      71   .439       .023104   .1946781   .3929204   .4850796
-----+-----
```

```
combined |      142   .4573169   .0206213   .2457314   .41655    .4980838
-----+-----
```

```
diff |          .0366338   .0412737                -.0449665   .1182341
-----+-----
```

```
diff = mean(0) - mean(1)                t = 0.8876
Ho: diff = 0                            degrees of freedom = 140
```

```
Ha: diff < 0                Ha: diff != 0                Ha: diff > 0
Pr(T < t) = 0.8119          Pr(|T| > |t|) = 0.3763          Pr(T > t) = 0.1881
```

```
. ttest preop_platelet_tot , by(psm_robot)
```

```
Two-sample t test with equal variances
```

```
-----+-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
0 |      71   268.2958   14.00975   118.0482   240.3542   296.2373
1 |      71   240.1268   9.207182   77.5811   221.7636   258.4899
-----+-----
```

```
combined |      142   254.2113   8.436225   100.5292   237.5334   270.8891
-----+-----
```

```
diff |          28.16901   16.7644                -4.975111   61.31314
-----+-----
```

```
diff = mean(0) - mean(1)                t = 1.6803
Ho: diff = 0                            degrees of freedom = 140
```

```
Ha: diff < 0                Ha: diff != 0                Ha: diff > 0
Pr(T < t) = 0.9524          Pr(|T| > |t|) = 0.0951          Pr(T > t) = 0.0476
```

```
. ttest preop_leuko_tot , by(psm_robot)
```

```
Two-sample t test with equal variances
```

```
-----+-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
0 |      71   6.717606   .3803583   3.204956   5.959005   7.476206
1 |      71   6.078732   .239684   2.019613   5.600698   6.556767
-----+-----
```

```
combined |      142   6.398169   .2256004   2.688339   5.952173   6.844165
-----+-----
```

```
diff |          .6388732   .4495785                -.2499676   1.527714
-----+-----
```

```
diff = mean(0) - mean(1)                t = 1.4210
Ho: diff = 0                            degrees of freedom = 140
```


Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.9212 Pr(|T| > |t|) = 0.1575 Pr(T > t) = 0.0788

. ttest preop_fev1_tot , by(psm_robot)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	71	3.119901	.0870921	.7338513	2.946202	3.293601
1	71	3.203944	.0772152	.6506271	3.049943	3.357945
combined	142	3.161923	.0580974	.6923107	3.047068	3.276777
diff		-.0840423	.1163926		-.3141566	.1460721

diff = mean(0) - mean(1) t = -0.7221
 Ho: diff = 0 degrees of freedom = 140

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.2357 Pr(|T| > |t|) = 0.4715 Pr(T > t) = 0.7643

. ttest preop_vc_tot , by(psm_robot)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	71	4.155972	.1274106	1.073581	3.901859	4.410084
1	71	4.182451	.1026649	.8650695	3.977692	4.387209
combined	142	4.169211	.0815301	.9715431	4.008032	4.330391
diff		-.0264789	.1636262		-.3499766	.2970189

diff = mean(0) - mean(1) t = -0.1618
 Ho: diff = 0 degrees of freedom = 140

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.4358 Pr(|T| > |t|) = 0.8717 Pr(T > t) = 0.5642

. tabulate psm_robot preop_sex , chi2

psm_robot	preop_sex		Total
	0	1	
0	60	11	71
1	59	12	71
Total	119	23	142

Pearson chi2(1) = 0.0519 Pr = 0.820

. tabulate psm_robot preop_liver , chi2

psm_robot	preop_liver		Total
	0	1	
0	66	5	71
1	67	4	71
Total	133	9	142

Pearson chi2(1) = 0.1186 Pr = 0.731

. tabulate psm_robot preop_khk , chi2

psm_robot	preop_khk		Total
	0	1	
0	66	5	71
1	64	7	71
Total	130	12	142

Pearson chi2(1) = 0.3641 Pr = 0.546

. tabulate psm_robot preop_vhf , chi2

psm_robot	preop_vhf		Total
	0	1	
0	69	2	71
1	66	5	71
Total	135	7	142

Pearson chi2(1) = 1.3524 Pr = 0.245

. tabulate psm_robot preop_mi , chi2

psm_robot	preop_mi		Total
	0	1	
0	68	3	71
1	67	4	71
Total	135	7	142

Pearson chi2(1) = 0.1503 Pr = 0.698

. tabulate psm_robot preop_revasc , chi2

psm_robot	preop_revasc		Total
	0	1	
0	69	2	71
1	68	3	71
Total	137	5	142

Pearson chi2(1) = 0.2073 Pr = 0.649

. tabulate psm_robot preop_aht , chi2

psm_robot	preop_aht		Total
	0	1	
0	34	37	71
1	41	30	71
Total	75	67	142

Pearson chi2(1) = 1.3847 Pr = 0.239

. tabulate psm_robot preop_pavk , chi2

psm_robot	preop_pavk		Total
	0	1	
0	71	0	71
1	70	1	71
Total	141	1	142

Pearson chi2(1) = 1.0071 Pr = 0.316

. tabulate psm_robot preop_diabetes , chi2

psm_robot	preop_diabetes		Total
	0	1	
0	64	7	71
1	64	7	71
Total	128	14	142

Pearson chi2(1) = 0.0000 Pr = 1.000

. tabulate psm_robot preop_weightloss_bin , chi2

psm_robot	preop_weightloss_bin		Total
	0	1	
0	62	9	71
1	55	16	71
Total	117	25	142

Pearson chi2(1) = 2.3788 Pr = 0.123

. tabulate psm_robot preop_diag , chi2

psm_robot	preop_diag		Total
	0	1	
0	63	8	71
1	57	14	71
Total	120	22	142

Pearson chi2(1) = 1.9364 Pr = 0.164

. tabulate psm_robot preop_platelet_bin , chi2

psm_robot	preop_platelet_bin		Total
	0	1	
0	65	6	71
1	63	8	71
Total	128	14	142

Pearson chi2(1) = 0.3170 Pr = 0.573

. tabulate psm_robot preop_leuko_bin , chi2

psm_robot	preop_leuko_bin		Total
	0	1	
0	59	12	71
1	58	13	71
Total	117	25	142

Pearson chi2(1) = 0.0485 Pr = 0.826

. tabulate psm_robot preop_fev1_bin , chi2

psm_robot	preop_fev1_bin		Total
	0	1	
0			
1			
Total			

0	54	17	71
1	60	11	71
Total	114	28	142

Pearson chi2(1) = 1.6015 Pr = 0.206

. tabulate psm_robot preop_vc_bin , chi2

psm_robot	preop_vc_bin		Total
	0	1	
0	66	5	71
1	63	8	71
Total	129	13	142

Pearson chi2(1) = 0.7621 Pr = 0.383

. ranksum preop_smoke , by(psm_robot)

Two-sample Wilcoxon rank-sum (Mann-Whitney) test

psm_robot	obs	rank sum	expected
0	71	4821.5	5076.5
1	71	5331.5	5076.5
combined	142	10153	10153

unadjusted variance 60071.92

adjustment for ties -9138.23

adjusted variance 50933.69

Ho: preop~ke(psm_ro~t==0) = preop~ke(psm_ro~t==1)

z = -1.130
Prob > |z| = 0.2585

. ranksum preop_alcohol , by(psm_robot)

Two-sample Wilcoxon rank-sum (Mann-Whitney) test

psm_robot	obs	rank sum	expected
0	71	5208.5	5076.5
1	71	4944.5	5076.5
combined	142	10153	10153

unadjusted variance 60071.92

adjustment for ties -21057.92

adjusted variance 39014.00

Ho: preop~l(psm_ro~t==0) = preop~l(psm_ro~t==1)

z = 0.668
Prob > |z| = 0.5039

. ranksum preop_neoadj , by(psm_robot)

Two-sample Wilcoxon rank-sum (Mann-Whitney) test

psm_robot	obs	rank sum	expected
0	71	4514	5076.5
1	71	5639	5076.5
combined	142	10153	10153

unadjusted variance 60071.92

adjustment for ties -7840.59

adjusted variance 52231.33

Ho: preop~j(psm_ro~t==0) = preop~j(psm_ro~t==1)

z = -2.461
Prob > |z| = 0.0138

. ranksum preop_tstage , by(psm_robot)

Two-sample Wilcoxon rank-sum (Mann-Whitney) test

psm_robot	obs	rank sum	expected
0	71	4680.5	5076.5
1	71	5472.5	5076.5
combined	142	10153	10153

unadjusted variance 60071.92

adjustment for ties -18458.87

adjusted variance 41613.05

Ho: pre~tage(psm_ro~t==0) = pre~tage(psm_ro~t==1)

z = -1.941
Prob > |z| = 0.0522

```
. ranksum preop_asa , by(psm_robot)
Two-sample Wilcoxon rank-sum (Mann-Whitney) test
```

psm_robot	obs	rank sum	expected
0	71	5157.5	5076.5
1	71	4995.5	5076.5
combined	142	10153	10153

```
unadjusted variance 60071.92
adjustment for ties -13961.95
adjusted variance 46109.97
Ho: preop~a(psm_ro~t==0) = preop~a(psm_ro~t==1)
z = 0.377
Prob > |z| = 0.7060
```

```
. ranksum preop_ecog , by(psm_robot)
Two-sample Wilcoxon rank-sum (Mann-Whitney) test
```

psm_robot	obs	rank sum	expected
0	71	5173.5	5076.5
1	71	4979.5	5076.5
combined	142	10153	10153

```
unadjusted variance 60071.92
adjustment for ties -26524.42
adjusted variance 33547.50
Ho: preop~og(psm_ro~t==0) = preop~og(psm_ro~t==1)
z = 0.530
Prob > |z| = 0.5964
```

```
. ranksum preop_copd , by(psm_robot)
Two-sample Wilcoxon rank-sum (Mann-Whitney) test
```

psm_robot	obs	rank sum	expected
0	71	5041	5076.5
1	71	5112	5076.5
combined	142	10153	10153

```
unadjusted variance 60071.92
adjustment for ties -53949.43
adjusted variance 6122.49
Ho: preop~d(psm_ro~t==0) = preop~d(psm_ro~t==1)
z = -0.454
Prob > |z| = 0.6500
```