

CUPAtabl e

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---
name: <unnamed>
log: C:\Users\TAOVLW1\Desktop\WORKING\PROGRAMS\ReportTables\CUPAtabl e. log
log type: text
opened on: 6 Dec 2017, 11:00:37

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```

. **** USE DATA SET *****
. use C:\Users\TAOVLW1\Desktop\WORKING\DATA\FINAL\FSS2015-16B

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. gen CUPAdi ff=0

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```

. replac e CUPAdi ff=CUPA_NATR - morate
(575 real changes made)

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. descri be

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Contains data from C:\Users\TAOVLW1\Desktop\WORKING\DATA\FINAL\FSS2015-16B.dta
obs:          575
vars:          38                               12 Nov 2017 16:09
size:         80,500

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variabl e name	storage type	di spl ay format	val ue label	variabl e label
control	long	%12.0g		
col lege	byte	%8.0g		
dept	byte	%8.0g		
age	doubl e	%12.0g		
femal e	byte	%8.0g		
mi nori ty	byte	%8.0g		
asi an	byte	%8.0g		
bl ack	byte	%8.0g		
hi sp	byte	%8.0g		
morate	doubl e	%12.0g		
ful l	byte	%8.0g		
assoc	byte	%8.0g		
rkyrs	doubl e	%12.0g		
yr sni u	doubl e	%12.0g		
yrsoth	fl oat	%9.0g		
meri t	doubl e	%12.0g		
sal adj	byte	%8.0g		
seadj	byte	%8.0g		
profshi p	byte	%8.0g		
RKST_FULL	byte	%8.0g		
RKST_ASSOC	byte	%8.0g		
CUPA_NAT	doubl e	%12.0g		
CUPA_NI U	doubl e	%12.0g		
CUPA_NATR	doubl e	%12.0g		
yearstart	i nt	%8.0g		
qui nt	fl oat	%9.0g		
qui ntTOP	fl oat	%9.0g		
qui nt2ND	fl oat	%9.0g		
qui ntMI D	fl oat	%9.0g		
qui nt4TH	fl oat	%9.0g		
qui ntBOT	fl oat	%9.0g		
l morate	fl oat	%9.0g		
cupa000	fl oat	%9.0g		

CUPAtable

```
whmale      float    %9.0g
RKST_ASSIST float    %9.0g
assst       float    %9.0g
salstart    float    %9.0g
CUPAdiff    float    %9.0g
```

Sorted by: quint
 Note: Dataset has changed since last saved.

```
. * ALL FACULTY MEMBERS
. summarize CUPA_NATR morate CUPAdiff
```

Variable	Obs	Mean	Std. Dev.	Min	Max
CUPA_NATR	575	9625.953	2622.314	5818.849	18179.78
morate	575	8754.981	2560.947	4084	19444.46
CUPAdiff	575	870.9726	1274.835	-2312.369	5237.533

```
. by full, sort: summarize CUPA_NATR morate CUPAdiff
```

-> full = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
CUPA_NATR	383	8605.839	2062.272	5818.849	15838.89
morate	383	7970.454	2297.987	4084	17812
CUPAdiff	383	635.3846	1006.06	-2220.556	4333.12

-> full = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
CUPA_NATR	192	11660.87	2431.128	8150.889	18179.78
morate	192	10319.95	2334.968	5403.8	19444.46
CUPAdiff	192	1340.922	1589.499	-2312.369	5237.533

```
. by assoc, sort: summarize CUPA_NATR morate CUPAdiff
```

-> assoc = 0

Variable	Obs	Mean	Std. Dev.	Min	Max
CUPA_NATR	319	10233.23	2884.184	5818.849	18179.78
morate	319	9225.884	2651.103	4084	19444.46
CUPAdiff	319	1007.342	1470.858	-2312.369	5237.533

-> assoc = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
CUPA_NATR	256	8869.235	2017.187	6931	15838.89
morate	256	8168.191	2318.427	4727.42	17812

CUPAdi ff | 256 701. 0434 CUPAtable 952. 9603 -2220. 556 3573. 358

. by assist, sort: summarize CUPA_NATR morate CUPAdi ff

-> assist = 0

Vari able	Obs	Mean	Std. Dev.	Min	Max
CUPA_NATR	448	10065. 65	2599. 913	6931	18179. 78
morate	448	9090. 372	2555. 855	4727. 42	19444. 46
CUPAdi ff	448	975. 277	1303. 118	-2312. 369	5237. 533

-> assist = 1

Vari able	Obs	Mean	Std. Dev.	Min	Max
CUPA_NATR	127	8074. 9	2057. 632	5818. 849	15838. 89
morate	127	7571. 867	2211. 813	4084	17777. 78
CUPAdi ff	127	503. 0328	1097. 406	-2186. 335	4333. 12

. by full, sort: summarize CUPA_NATR morate CUPAdi ff if rkyrs<10

-> full = 0

Vari able	Obs	Mean	Std. Dev.	Min	Max
CUPA_NATR	338	8604. 85	2145. 589	5818. 849	15838. 89
morate	338	7991. 307	2381. 53	4084	17812
CUPAdi ff	338	613. 5429	996. 0551	-2220. 556	4333. 12

-> full = 1

Vari able	Obs	Mean	Std. Dev.	Min	Max
CUPA_NATR	158	11675. 08	2477. 441	8150. 889	18179. 78
morate	158	10106. 04	2233. 765	5403. 8	16618. 86
CUPAdi ff	158	1569. 037	1437. 829	-2223. 556	5237. 533

. by assoc, sort: summarize CUPA_NATR morate CUPAdi ff if rkyrs<10

-> assoc = 0

Vari able	Obs	Mean	Std. Dev.	Min	Max
CUPA_NATR	279	10121. 62	2916. 698	5818. 849	18179. 78
morate	279	9003. 264	2569. 982	4084	17777. 78
CUPAdi ff	279	1118. 355	1403. 769	-2223. 556	5237. 533

CUPAtable

 mean(di ff) = mean(CUPA_NATR - morate) t = 11.1070
 Ho: mean(di ff) = 0 degrees of freedom = 254

Ha: mean(di ff) < 0 Ha: mean(di ff) != 0 Ha: mean(di ff) > 0
 Pr(T < t) = 1.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 0.0000

. ttest CUPA_NATR = morate if full==1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
CUPA_N~R	112	11837.36	236.5848	2503.779	11368.55	12306.17
morate	112	10617.76	226.6877	2399.037	10168.56	11066.95
di ff	112	1219.605	152.4301	1613.168	917.5551	1521.656

 mean(di ff) = mean(CUPA_NATR - morate) t = 8.0011
 Ho: mean(di ff) = 0 degrees of freedom = 111

Ha: mean(di ff) < 0 Ha: mean(di ff) != 0 Ha: mean(di ff) > 0
 Pr(T < t) = 1.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 0.0000

. ttest CUPA_NATR = morate if full==1 & rkyrs<10

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
CUPA_N~R	84	11873.31	280.2136	2568.2	11315.98	12430.65
morate	84	10319.22	248.137	2274.214	9825.687	10812.76
di ff	84	1554.091	155.0185	1420.768	1245.765	1862.416

 mean(di ff) = mean(CUPA_NATR - morate) t = 10.0252
 Ho: mean(di ff) = 0 degrees of freedom = 83

Ha: mean(di ff) < 0 Ha: mean(di ff) != 0 Ha: mean(di ff) > 0
 Pr(T < t) = 1.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 0.0000

. ttest CUPA_NATR = morate if assoc==1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
CUPA_N~R	98	8844.425	169.0784	1673.791	8508.851	9179.999
morate	98	8018.895	192.1737	1902.422	7637.483	8400.306
di ff	98	825.5299	97.87212	968.8846	631.2808	1019.779

 mean(di ff) = mean(CUPA_NATR - morate) t = 8.4348
 Ho: mean(di ff) = 0 degrees of freedom = 97

Ha: mean(di ff) < 0 Ha: mean(di ff) != 0 Ha: mean(di ff) > 0
 Pr(T < t) = 1.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 0.0000

. ttest CUPA_NATR = morate if assoc==1 & rkyrs<10

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
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CUPAtable

	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
CUPA_N~R	76	8737.584	199.5168	1739.347	8340.126 9135.042
morate	76	7963.132	221.0469	1927.042	7522.784 8403.48
di ff	76	774.4522	107.0061	932.8571	561.2852 987.6192

mean(di ff) = mean(CUPA_NATR - morate) t = 7.2375
 Ho: mean(di ff) = 0 degrees of freedom = 75

Ha: mean(di ff) < 0 Ha: mean(di ff) != 0 Ha: mean(di ff) > 0
 Pr(T < t) = 1.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 0.0000

. ttest CUPA_NATR = morate if assist==1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
CUPA_N~R	45	7994.637	289.0468	1938.985	7412.102 8577.173
morate	45	7574.186	312.5441	2096.609	6944.295 8204.077
di ff	45	420.4516	157.6973	1057.866	102.6336 738.2696

mean(di ff) = mean(CUPA_NATR - morate) t = 2.6662
 Ho: mean(di ff) = 0 degrees of freedom = 44

Ha: mean(di ff) < 0 Ha: mean(di ff) != 0 Ha: mean(di ff) > 0
 Pr(T < t) = 0.9947 Pr(|T| > |t|) = 0.0107 Pr(T > t) = 0.0053

. clear all

. * FEMALE FACULTY MEMBERS ONLY
 . use C:\Users\TAOVLW1\Desktop\WORKING\DATA\FINAL\FSS2015-16B

. keep if whmale==1 | female==1
 (72 observations deleted)

. gen CUPAdi ff=0

. replace CUPAdi ff=CUPA_NATR - morate
 (503 real changes made)

. ttest CUPA_NATR, by(female)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	255	10009.01	167.7641	2678.978	9678.622 10339.39
1	248	9095.998	160.2145	2523.061	8780.437 9411.559
combined	503	9558.856	117.7347	2640.515	9327.542 9790.169
di ff		913.0099	232.1712		456.8608 1369.159

di ff = mean(0) - mean(1) t = 3.9325
 Ho: di ff = 0 degrees of freedom = 501

Ha: di ff < 0 Ha: di ff != 0 Ha: di ff > 0
 Pr(T < t) = 1.0000 Pr(|T| > |t|) = 0.0001 Pr(T > t) = 0.0000

CUPAtable

. ttest morate, by(female)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	255	9081.878	160.1175	2556.872	8766.551	9397.205
1	248	8320.913	161.4518	2542.545	8002.915	8638.911
combined	503	8706.69	114.8398	2575.587	8481.065	8932.316
diff		760.9652	227.4036		314.183	1207.747

diff = mean(0) - mean(1) t = 3.3463
 Ho: diff = 0 degrees of freedom = 501

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.9996 Pr(|T| > |t|) = 0.0009 Pr(T > t) = 0.0004

. ttest CUPAdiff, by(female)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	255	927.1297	83.47279	1332.954	762.7427	1091.517
1	248	775.085	75.90402	1195.338	625.5833	924.5867
combined	503	852.1653	56.53728	1267.999	741.0864	963.2441
diff		152.0447	112.9943		-69.95645	374.0458

diff = mean(0) - mean(1) t = 1.3456
 Ho: diff = 0 degrees of freedom = 501

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.9105 Pr(|T| > |t|) = 0.1790 Pr(T > t) = 0.0895

. by full, sort: ttest CUPA_NATR, by(female)

 -> full = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	143	8577.009	150.4201	1798.763	8279.657	8874.361
1	192	8440.372	156.4863	2168.338	8131.709	8749.036
combined	335	8498.698	110.2083	2017.143	8281.908	8715.488
diff		136.6369	223.0216		-302.0718	575.3457

diff = mean(0) - mean(1) t = 0.6127
 Ho: diff = 0 degrees of freedom = 333

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.7297 Pr(|T| > |t|) = 0.5405 Pr(T > t) = 0.2703

CUPAtable

diff = mean(0) - mean(1)
 Ho: diff = 0
 Ha: diff < 0
 Pr(T < t) = 0.9999

t = 3.8355
 degrees of freedom = 276

Ha: diff != 0
 Pr(|T| > |t|) = 0.0002

Ha: diff > 0
 Pr(T > t) = 0.0001

--
 -> assoc = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	98	8844.425	169.0784	1673.791	8508.851	9179.999
1	127	8806.564	193.1585	2176.785	8424.309	9188.819
combined	225	8823.055	131.2992	1969.488	8564.315	9081.794
diff		37.8605	265.3881		-485.1289	560.8499

diff = mean(0) - mean(1)
 Ho: diff = 0
 Ha: diff < 0
 Pr(T < t) = 0.5567

t = 0.1427
 degrees of freedom = 223

Ha: diff != 0
 Pr(|T| > |t|) = 0.8867

Ha: diff > 0
 Pr(T > t) = 0.4433

. by assoc, sort: ttest morate, by(female)

--
 -> assoc = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	157	9745.396	214.7614	2690.953	9321.18	10169.61
1	121	8484.834	231.6068	2547.675	8026.269	8943.399
combined	278	9196.734	161.8455	2698.505	8878.131	9515.338
diff		1260.562	318.1064		634.3388	1886.785

diff = mean(0) - mean(1)
 Ho: diff = 0
 Ha: diff < 0
 Pr(T < t) = 1.0000

t = 3.9627
 degrees of freedom = 276

Ha: diff != 0
 Pr(|T| > |t|) = 0.0001

Ha: diff > 0
 Pr(T > t) = 0.0000

--
 -> assoc = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	98	8018.895	192.1737	1902.422	7637.483	8400.306
1	127	8164.736	225.196	2537.83	7719.079	8610.392
combined	225	8101.214	151.9551	2279.326	7801.77	8400.658

```

                                CUPAtabl e
di ff |                -145. 8409    306. 9974                -750. 8281    459. 1464
-----
di ff = mean(0) - mean(1)                                t = -0. 4751
Ho: di ff = 0                                           degrees of freedom =    223

Ha: di ff < 0
Pr(T < t) = 0. 3176
Ha: di ff != 0
Pr(|T| > |t|) = 0. 6352
Ha: di ff > 0
Pr(T > t) = 0. 6824

```

```
. by assoc, sort: ttest CUPAdi ff, by(female)
```

```

---
-> assoc = 0

```

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

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	157	990. 5486	121. 0018	1516. 148	751. 5353 1229. 562
1	121	914. 9492	126. 1411	1387. 552	665. 1987 1164. 7
combi ned	278	957. 6438	87. 53318	1459. 47	785. 3291 1129. 959
di ff		75. 59942	176. 814		-272. 4759 423. 6747

```

di ff = mean(0) - mean(1)                                t = 0. 4276
Ho: di ff = 0                                           degrees of freedom =    276

Ha: di ff < 0
Pr(T < t) = 0. 6653
Ha: di ff != 0
Pr(|T| > |t|) = 0. 6693
Ha: di ff > 0
Pr(T > t) = 0. 3347

```

```

---
-> assoc = 1

```

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

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	98	825. 5299	97. 87212	968. 8846	631. 2808 1019. 779
1	127	641. 8285	85. 60401	964. 7082	472. 4207 811. 2364
combi ned	225	721. 8407	64. 57855	968. 6783	594. 5815 849. 0999
di ff		183. 7013	129. 9542		-72. 3941 439. 7968

```

di ff = mean(0) - mean(1)                                t = 1. 4136
Ho: di ff = 0                                           degrees of freedom =    223

Ha: di ff < 0
Pr(T < t) = 0. 9206
Ha: di ff != 0
Pr(|T| > |t|) = 0. 1589
Ha: di ff > 0
Pr(T > t) = 0. 0794

```

```
. by assist, sort: ttest CUPA_NATR, by(female)
```

```

---
-> assist = 0

```

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

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	210	10440. 66	180. 8683	2621. 031	10084. 1 10797. 22

```

                                CUPAtable
      1 |      183      9583.003      186.3087      2520.338      9215.401      9950.606
-----+-----
combined |      393      10041.29      131.4957      2606.801      9782.767      10299.82
-----+-----
diff |              857.6549      260.3631              345.7681      1369.542
-----+-----
diff = mean(0) - mean(1)
Ho: diff = 0
                                t =      3.2941
                                degrees of freedom =      391

Ha: diff < 0
Pr(T < t) = 0.9995

Ha: diff != 0
Pr(|T| > |t|) = 0.0011

Ha: diff > 0
Pr(T > t) = 0.0005

```

```

---
-> assist = 1

```

Two-sample t test with equal variances

```

-----+-----
Group |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----
      0 |         45      7994.637      289.0468      1938.985      7412.102      8577.173
      1 |         65      7724.889      245.4785      1979.111      7234.49      8215.289
-----+-----
combined |      110      7835.241      186.7237      1958.375      7465.161      8205.321
-----+-----
diff |              269.748      380.6477              -484.7618      1024.258
-----+-----
diff = mean(0) - mean(1)
Ho: diff = 0
                                t =      0.7087
                                degrees of freedom =      108

Ha: diff < 0
Pr(T < t) = 0.7600

Ha: diff != 0
Pr(|T| > |t|) = 0.4801

Ha: diff > 0
Pr(T > t) = 0.2400

```

```

. by assist, sort: ttest morate, by(female)

```

```

---
-> assist = 0

```

Two-sample t test with equal variances

```

-----+-----
Group |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----
      0 |        210      9404.955      174.9214      2534.852      9060.118      9749.791
      1 |        183      8689.27      189.108      2558.205      8316.144      9062.396
-----+-----
combined |      393      9071.697      129.5134      2567.504      8817.069      9326.325
-----+-----
diff |              715.685      257.4404              209.5445      1221.826
-----+-----
diff = mean(0) - mean(1)
Ho: diff = 0
                                t =      2.7800
                                degrees of freedom =      391

Ha: diff < 0
Pr(T < t) = 0.9972

Ha: diff != 0
Pr(|T| > |t|) = 0.0057

Ha: diff > 0
Pr(T > t) = 0.0028

```

```

---
-> assist = 1

```

Two-sample t test with equal variances

```

-----+-----
Group |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]

```

CUPAtable

0	45	7574.186	312.5441	2096.609	6944.295	8204.077
1	65	7283.846	273.386	2204.109	6737.694	7829.997
combined	110	7402.621	205.5472	2155.798	6995.233	7810.009
diff		290.3399	419.0635		-540.3165	1120.996

diff = mean(0) - mean(1) t = 0.6928
 Ho: diff = 0 degrees of freedom = 108

Ha: diff < 0 Pr(T < t) = 0.7550
 Ha: diff != 0 Pr(|T| > |t|) = 0.4899
 Ha: diff > 0 Pr(T > t) = 0.2450

. by assist, sort: ttest CUPAdiff, by(female)

 -> assist = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	210	1035.704	94.02651	1362.574	850.3416	1221.065
1	183	893.7336	89.82456	1215.124	716.5022	1070.965
combined	393	969.5954	65.39044	1296.315	841.0355	1098.155
diff		141.9699	131.0616		-115.7038	399.6436

diff = mean(0) - mean(1) t = 1.0832
 Ho: diff = 0 degrees of freedom = 391

Ha: diff < 0 Pr(T < t) = 0.8603
 Ha: diff != 0 Pr(|T| > |t|) = 0.2794
 Ha: diff > 0 Pr(T > t) = 0.1397

 -> assist = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	45	420.4516	157.6973	1057.866	102.6336	738.2696
1	65	441.0435	133.7016	1077.937	173.9439	708.1431
combined	110	432.6196	101.5376	1064.935	231.3754	633.8637
diff		-20.59191	207.4617		-431.8171	390.6332

diff = mean(0) - mean(1) t = -0.0993
 Ho: diff = 0 degrees of freedom = 108

Ha: diff < 0 Pr(T < t) = 0.4606
 Ha: diff != 0 Pr(|T| > |t|) = 0.9211
 Ha: diff > 0 Pr(T > t) = 0.5394

. keep if rkyrs < 10
 (73 observations deleted)

. by full, sort: ttest CUPA_NATR, by(female)

CUPAtable

Ho: di ff = 0 degrees of freedom = 136

Ha: di ff < 0 Pr(T < t) = 0.4866 Ha: di ff != 0 Pr(|T| > |t|) = 0.9731 Ha: di ff > 0 Pr(T > t) = 0.5134

. by assoc, sort: ttest CUPA_NATR, by(female)

-> assoc = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	127	10537.03	268.2392	3022.902	10006.19	11067.86
1	115	9481.332	265.56	2847.814	8955.259	10007.4
combined	242	10035.35	191.6963	2982.095	9657.739	10412.97
di ff		1055.693	378.5795		309.9304	1801.456

di ff = mean(0) - mean(1) t = 2.7886
Ho: di ff = 0 degrees of freedom = 240

Ha: di ff < 0 Pr(T < t) = 0.9971 Ha: di ff != 0 Pr(|T| > |t|) = 0.0057 Ha: di ff > 0 Pr(T > t) = 0.0029

-> assoc = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	76	8737.584	199.5168	1739.347	8340.126	9135.042
1	112	8906.404	216.6293	2292.589	8477.138	9335.669
combined	188	8838.158	151.9399	2083.295	8538.421	9137.894
di ff		-168.8194	310.1935		-780.7692	443.1303

di ff = mean(0) - mean(1) t = -0.5442
Ho: di ff = 0 degrees of freedom = 186

Ha: di ff < 0 Pr(T < t) = 0.2935 Ha: di ff != 0 Pr(|T| > |t|) = 0.5869 Ha: di ff > 0 Pr(T > t) = 0.7065

. by assoc, sort: ttest morate, by(female)

-> assoc = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	127	9365.525	229.5651	2587.067	8911.222	9819.827
1	115	8490.426	239.9631	2573.317	8015.061	8965.791
combined	242	8949.672	167.9157	2612.155	8618.902	9280.442

CUPAtable

```
-----
di ff |          875.0988    332.1761          220.7459    1529.452
-----
di ff = mean(0) - mean(1)
Ho: di ff = 0          degrees of freedom =          240
          t =          2.6344
          Ha: di ff < 0          Pr(T < t) = 0.9955
          Ha: di ff != 0          Pr(|T| > |t|) = 0.0090
          Ha: di ff > 0          Pr(T > t) = 0.0045
-----
```

```
---
-> assoc = 1
```

Two-sample t test with equal variances

```
-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----
0 |      76   7963.132   221.0469   1927.042   7522.784   8403.48
1 |     112   8275.977   250.7598   2653.792   7779.079   8772.874
-----
combi ned |     188   8149.508   174.0237   2386.093   7806.206   8492.81
-----
di ff |          -312.8447    354.8209          -1012.835    387.146
-----
di ff = mean(0) - mean(1)
Ho: di ff = 0          degrees of freedom =          186
          t =          -0.8817
          Ha: di ff < 0          Pr(T < t) = 0.1895
          Ha: di ff != 0          Pr(|T| > |t|) = 0.3791
          Ha: di ff > 0          Pr(T > t) = 0.8105
-----
```

```
. by assoc, sort: ttest CUPAdi ff, by(female)
```

```
---
-> assoc = 0
```

Two-sample t test with equal variances

```
-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----
0 |     127   1171.5    125.7569   1417.208   922.6313   1420.37
1 |     115   990.9059   128.1226   1373.962   737.096   1244.716
-----
combi ned |     242   1085.681    89.79348   1396.859   908.8005   1262.561
-----
di ff |          180.5946    179.8049          -173.6026    534.7917
-----
di ff = mean(0) - mean(1)
Ho: di ff = 0          degrees of freedom =          240
          t =          1.0044
          Ha: di ff < 0          Pr(T < t) = 0.8419
          Ha: di ff != 0          Pr(|T| > |t|) = 0.3162
          Ha: di ff > 0          Pr(T > t) = 0.1581
-----
```

```
---
-> assoc = 1
```

Two-sample t test with equal variances

```
-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----
0 |      76   774.4522   107.0061   932.8571   561.2852   987.6192
1 |     112   630.427    89.15145   943.4903   453.7674   807.0865
-----
```


CUPAtable

CUPA_N~R	54	11399.32	325.903	2394.888	10745.64	12053
morate	54	9836.82	301.6766	2216.862	9231.733	10441.91
di ff	54	1562.499	195.773	1438.632	1169.828	1955.17

mean(di ff) = mean(CUPA_NATR - morate) t = 7.9812
 Ho: mean(di ff) = 0 degrees of freedom = 53

Ha: mean(di ff) < 0 Ha: mean(di ff) != 0 Ha: mean(di ff) > 0
 Pr(T < t) = 1.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 0.0000

. ttest CUPA_NATR = morate if assoc==1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
CUPA_N~R	127	8806.564	193.1585	2176.785	8424.309	9188.819
morate	127	8164.736	225.196	2537.83	7719.079	8610.392
di ff	127	641.8285	85.60401	964.7082	472.4207	811.2364

mean(di ff) = mean(CUPA_NATR - morate) t = 7.4976
 Ho: mean(di ff) = 0 degrees of freedom = 126

Ha: mean(di ff) < 0 Ha: mean(di ff) != 0 Ha: mean(di ff) > 0
 Pr(T < t) = 1.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 0.0000

. ttest CUPA_NATR = morate if assoc==1 & rkys<10

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
CUPA_N~R	112	8906.404	216.6293	2292.589	8477.138	9335.669
morate	112	8275.977	250.7598	2653.792	7779.079	8772.874
di ff	112	630.427	89.15145	943.4903	453.7674	807.0865

mean(di ff) = mean(CUPA_NATR - morate) t = 7.0714
 Ho: mean(di ff) = 0 degrees of freedom = 111

Ha: mean(di ff) < 0 Ha: mean(di ff) != 0 Ha: mean(di ff) > 0
 Pr(T < t) = 1.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 0.0000

. ttest CUPA_NATR = morate if assist==1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
CUPA_N~R	65	7724.889	245.4785	1979.111	7234.49	8215.289
morate	65	7283.846	273.386	2204.109	6737.694	7829.997
di ff	65	441.0435	133.7016	1077.937	173.9439	708.1431

mean(di ff) = mean(CUPA_NATR - morate) t = 3.2987
 Ho: mean(di ff) = 0 degrees of freedom = 64

Ha: mean(di ff) < 0 Ha: mean(di ff) != 0 Ha: mean(di ff) > 0
 Pr(T < t) = 0.9992 Pr(|T| > |t|) = 0.0016 Pr(T > t) = 0.0008

CUPAtable

```
. clear all

. * ASIAN FACULTY MEMBERS
. use C:\Users\TAOVLW1\Desktop\WORKING\DATA\FINAL\FSS2015-16B

. keep if whmale==1 | asian==1
(233 observations deleted)

. gen CUPAdiff=0

. replace CUPAdiff=CUPA_NATR - morate
(342 real changes made)

. ttest CUPA_NATR, by(asian)
```

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	255	10009.01	167.7641	2678.978	9678.622 10339.39
1	87	9998.757	293.8044	2740.425	9414.693 10582.82
combined	342	10006.4	145.4965	2690.702	9720.216 10292.58
diff		10.25094	334.5693		-647.8355 668.3374

diff = mean(0) - mean(1) t = 0.0306
 Ho: diff = 0 degrees of freedom = 340

Ha: diff < 0 Pr(T < t) = 0.5122
 Ha: diff != 0 Pr(|T| > |t|) = 0.9756
 Ha: diff > 0 Pr(T > t) = 0.4878

```
. ttest morate, by(asian)
```

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	255	9081.878	160.1175	2556.872	8766.551 9397.205
1	87	9015.161	294.4423	2746.375	8429.829 9600.493
combined	342	9064.906	140.7241	2602.446	8788.109 9341.703
diff		66.71681	323.5755		-569.7451 703.1787

diff = mean(0) - mean(1) t = 0.2062
 Ho: diff = 0 degrees of freedom = 340

Ha: diff < 0 Pr(T < t) = 0.5816
 Ha: diff != 0 Pr(|T| > |t|) = 0.8368
 Ha: diff > 0 Pr(T > t) = 0.4184

```
. ttest CUPAdiff, by(asian)
```

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	255	927.1297	83.47279	1332.954	762.7427 1091.517
1	87	983.5955	139.1577	1297.977	706.9591 1260.232
combined	342	941.4938	71.51154	1322.48	800.8345 1082.153

CUPAtable

```
-----+-----
di ff |          -56.46588    164.4125          -379.8597    266.9279
-----+-----
di ff = mean(0) - mean(1)
Ho: di ff = 0
t = -0.3434
degrees of freedom = 340

Ha: di ff < 0
Pr(T < t) = 0.3657

Ha: di ff != 0
Pr(|T| > |t|) = 0.7315

Ha: di ff > 0
Pr(T > t) = 0.6343
```

. by full, sort: ttest CUPA_NATR, by(asian)

-> full = 0

Two-sample t test with equal variances

```
-----+-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
0 |      143   8577.009   150.4201   1798.763   8279.657   8874.361
1 |       64   9310.198   306.7196   2453.757   8697.267   9923.128
-----+-----
combined |      207   8803.695   142.2228   2046.229   8523.297   9084.094
-----+-----
di ff |          -733.1885    304.208          -1332.966   -133.4109
-----+-----
di ff = mean(0) - mean(1)
Ho: di ff = 0
t = -2.4102
degrees of freedom = 205

Ha: di ff < 0
Pr(T < t) = 0.0084

Ha: di ff != 0
Pr(|T| > |t|) = 0.0168

Ha: di ff > 0
Pr(T > t) = 0.9916
```

-> full = 1

Two-sample t test with equal variances

```
-----+-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
0 |      112   11837.36   236.5848   2503.779   11368.55   12306.17
1 |       23   11914.75   547.6489   2626.432   10778.99   13050.5
-----+-----
combined |      135   11850.55   216.4749   2515.211   11422.4   12278.7
-----+-----
di ff |          -77.38421   577.9172          -1220.482   1065.714
-----+-----
di ff = mean(0) - mean(1)
Ho: di ff = 0
t = -0.1339
degrees of freedom = 133

Ha: di ff < 0
Pr(T < t) = 0.4468

Ha: di ff != 0
Pr(|T| > |t|) = 0.8937

Ha: di ff > 0
Pr(T > t) = 0.5532
```

. by full, sort: ttest morate, by(asian)

-> full = 0

Two-sample t test with equal variances

```
-----+-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
```

CUPAtable

	0	1	combined	diff
	143	64	207	
	7878.951	8571.834	8093.176	-692.8826
	164.6632	335.3292	155.0536	332.8188
	1969.085	2682.634	2230.833	
	7553.443	7901.732	7787.481	-1349.069
	8204.459	9241.936	8398.871	-36.69592
diff = mean(0) - mean(1)				
Ho: diff = 0				t = -2.0819
				degrees of freedom = 205
Ha: diff < 0	Pr(T < t) = 0.0193	Ha: diff != 0	Pr(T > t) = 0.0386	Ha: diff > 0
				Pr(T > t) = 0.9807

--> full = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	112	10617.76	226.6877	2399.037	10168.56 11066.95
1	23	10248.77	540.277	2591.077	9128.301 11369.23
combined	135	10554.89	208.862	2426.757	10141.8 10967.98
diff		368.9904	556.7123		-732.1649 1470.146
diff = mean(0) - mean(1)					t = 0.6628
Ho: diff = 0				degrees of freedom = 133	
Ha: diff < 0	Pr(T < t) = 0.7457	Ha: diff != 0	Pr(T > t) = 0.5086	Ha: diff > 0	Pr(T > t) = 0.2543

. by full, sort: ttest CUPAdiff, by(asian)

--> full = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	143	698.0577	84.60701	1011.753	530.8056 865.3098
1	64	738.3636	119.0159	952.1272	500.5293 976.1979
combined	207	710.5194	68.9189	991.5703	574.6426 846.3963
diff		-40.3059	149.4618		-334.9854 254.3736
diff = mean(0) - mean(1)					t = -0.2697
Ho: diff = 0				degrees of freedom = 205	
Ha: diff < 0	Pr(T < t) = 0.3938	Ha: diff != 0	Pr(T > t) = 0.7877	Ha: diff > 0	Pr(T > t) = 0.6062

--> full = 1

Two-sample t test with equal variances

CUPAtable

-> assoc = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	157	9745.396	214.7614	2690.953	9321.18 10169.61
1	49	9312.176	394.1935	2759.354	8519.597 10104.75
combined	206	9642.349	188.5997	2706.914	9270.505 10014.19
diff		433.2201	443.0029		-440.2313 1306.672

diff = mean(0) - mean(1) t = 0.9779
Ho: diff = 0 degrees of freedom = 204

Ha: diff < 0 Pr(T < t) = 0.8354
Ha: diff != 0 Pr(|T| > |t|) = 0.3293
Ha: diff > 0 Pr(T > t) = 0.1646

-> assoc = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	98	8018.895	192.1737	1902.422	7637.483 8400.306
1	38	8632.168	440.8797	2717.765	7738.861 9525.475
combined	136	8190.251	185.9225	2168.21	7822.553 8557.948
diff		-613.2735	412.5037		-1429.134 202.5869

diff = mean(0) - mean(1) t = -1.4867
Ho: diff = 0 degrees of freedom = 134

Ha: diff < 0 Pr(T < t) = 0.0697
Ha: diff != 0 Pr(|T| > |t|) = 0.1394
Ha: diff > 0 Pr(T > t) = 0.9303

. by assoc, sort: ttest CUPAdiff, by(asian)

-> assoc = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	157	990.5486	121.0018	1516.148	751.5353 1229.562
1	49	1137.8	222.3463	1556.424	690.7429 1584.857
combined	206	1025.574	106.1327	1523.291	816.3228 1234.826
diff		-147.2515	249.6667		-639.5095 345.0066

diff = mean(0) - mean(1) t = -0.5898
Ho: diff = 0 degrees of freedom = 204

Ha: diff < 0 Pr(T < t) = 0.2780
Ha: diff != 0 Pr(|T| > |t|) = 0.5560
Ha: diff > 0 Pr(T > t) = 0.7220

CUPAtable

-> assoc = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	98	825.5299	97.87212	968.8846	631.2808	1019.779
1	38	784.7528	135.8354	837.3459	509.5241	1059.982
combined	136	814.1363	79.84378	931.1305	656.2299	972.0427
diff		40.77706	178.5686		-312.4006	393.9547

diff = mean(0) - mean(1) t = 0.2284
 Ho: diff = 0 degrees of freedom = 134

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.5901 Pr(|T| > |t|) = 0.8197 Pr(T > t) = 0.4099

. by assist, sort: ttest CUPA_NATR, by(asian)

-> assist = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	210	10440.66	180.8683	2621.031	10084.1	10797.22
1	61	10358.72	355.2263	2774.406	9648.166	11069.28
combined	271	10422.22	161.0555	2651.308	10105.13	10739.3
diff		81.93399	386.3133		-678.6481	842.516

diff = mean(0) - mean(1) t = 0.2121
 Ho: diff = 0 degrees of freedom = 269

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.5839 Pr(|T| > |t|) = 0.8322 Pr(T > t) = 0.4161

-> assist = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	45	7994.637	289.0468	1938.985	7412.102	8577.173
1	26	9154.217	492.3499	2510.502	8140.203	10168.23
combined	71	8419.272	263.5268	2220.516	7893.685	8944.86
diff		-1159.58	532.9748		-2222.835	-96.32405

diff = mean(0) - mean(1) t = -2.1757
 Ho: diff = 0 degrees of freedom = 69

CUPAtable

Ha: di ff < 0 Ha: di ff != 0 Ha: di ff > 0
Pr(T < t) = 0.0165 Pr(|T| > |t|) = 0.0330 Pr(T > t) = 0.9835

. by assist, sort: ttest morate, by(asi an)

-> assist = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	210	9404.955	174.9214	2534.852	9060.118	9749.791
1	61	9241.706	353.915	2764.165	8533.77	9949.641
combined	271	9368.209	156.9588	2583.867	9059.19	9677.227
di ff		163.2493	376.3867		-577.7891	904.2877

di ff = mean(0) - mean(1) t = 0.4337
Ho: di ff = 0 degrees of freedom = 269

Ha: di ff < 0 Ha: di ff != 0 Ha: di ff > 0
Pr(T < t) = 0.6676 Pr(|T| > |t|) = 0.6648 Pr(T > t) = 0.3324

-> assist = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	45	7574.186	312.5441	2096.609	6944.295	8204.077
1	26	8483.653	525.8683	2681.413	7400.607	9566.699
combined	71	7907.23	278.9725	2350.664	7350.837	8463.623
di ff		-909.4673	572.8767		-2052.325	233.3904

di ff = mean(0) - mean(1) t = -1.5875
Ho: di ff = 0 degrees of freedom = 69

Ha: di ff < 0 Ha: di ff != 0 Ha: di ff > 0
Pr(T < t) = 0.0585 Pr(|T| > |t|) = 0.1170 Pr(T > t) = 0.9415

. by assist, sort: ttest CUPAdi ff, by(asi an)

-> assist = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	210	1035.704	94.02651	1362.574	850.3416	1221.065
1	61	1117.019	173.5878	1355.764	769.7916	1464.246
combined	271	1054.007	82.55099	1358.961	891.4815	1216.532
di ff		-81.3153	197.9642		-471.0715	308.4409

CUPAtable

 diff = mean(0) - mean(1) t = -0.4108
 Ho: diff = 0 degrees of freedom = 269

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.3408 Pr(|T| > |t|) = 0.6816 Pr(T > t) = 0.6592

 -> assist = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	45	420.4516	157.6973	1057.866	102.6336	738.2696
1	26	670.564	218.2752	1112.989	221.0179	1120.11
combined	71	512.0421	127.851	1077.291	257.0513	767.0328
diff		-250.1124	265.5956		-779.9611	279.7364

diff = mean(0) - mean(1) t = -0.9417
 Ho: diff = 0 degrees of freedom = 69

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.1748 Pr(|T| > |t|) = 0.3496 Pr(T > t) = 0.8252

. keep if rkyrs < 10
 (60 observations deleted)

. by full, sort: ttest CUPA_NATR, by(asian)

 -> full = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	119	8444.541	170.0164	1854.66	8107.863	8781.22
1	60	9363.568	325.5703	2521.857	8712.104	10015.03
combined	179	8752.595	159.9157	2139.526	8437.02	9068.17
diff		-919.0269	332.6206		-1575.439	-262.6144

diff = mean(0) - mean(1) t = -2.7630
 Ho: diff = 0 degrees of freedom = 177

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.0032 Pr(|T| > |t|) = 0.0063 Pr(T > t) = 0.9968

 -> full = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
-------	-----	------	-----------	-----------	----------------------	--

```

                                CUPAtable
      0 |      84    11873.31    280.2136    2568.2    11315.98    12430.65
      1 |      19    11996.49    641.5877    2796.616    10648.57    13344.42
-----+-----
combined |      103    11896.03    255.9874    2597.988    11388.29    12403.78
-----+-----
      diff |           -123.1831    663.139           -1438.672    1192.306
-----+-----
      diff = mean(0) - mean(1)
Ho: diff = 0
                                t = -0.1858
                                degrees of freedom = 101

      Ha: diff < 0
Pr(T < t) = 0.4265
      Ha: diff != 0
Pr(|T| > |t|) = 0.8530
      Ha: diff > 0
Pr(T > t) = 0.5735

```

```

. by full, sort: ttest morate, by(asian)

```

```

-----
---
-> full = 0

```

```

Two-sample t test with equal variances

```

```

-----+-----
      Group |      Obs      Mean    Std. Err.    Std. Dev.    [95% Conf. Interval]
-----+-----
      0 |      119    7796.682    183.4789    2001.518    7433.343    8160.02
      1 |      60    8642.451    355.4812    2753.546    7931.134    9353.767
-----+-----
combined |      179    8080.18    172.5451    2308.495    7739.682    8420.677
-----+-----
      diff |           -845.7692    360.9922           -1558.172    -133.3664
-----+-----
      diff = mean(0) - mean(1)
Ho: diff = 0
                                t = -2.3429
                                degrees of freedom = 177

      Ha: diff < 0
Pr(T < t) = 0.0101
      Ha: diff != 0
Pr(|T| > |t|) = 0.0202
      Ha: diff > 0
Pr(T > t) = 0.9899

```

```

-----
---
-> full = 1

```

```

Two-sample t test with equal variances

```

```

-----+-----
      Group |      Obs      Mean    Std. Err.    Std. Dev.    [95% Conf. Interval]
-----+-----
      0 |      84    10319.22    248.137    2274.214    9825.687    10812.76
      1 |      19    10286.67    591.7882    2579.545    9043.371    11529.97
-----+-----
combined |      103    10313.22    228.6098    2320.136    9859.77    10766.66
-----+-----
      diff |           32.54961    592.3093           -1142.433    1207.532
-----+-----
      diff = mean(0) - mean(1)
Ho: diff = 0
                                t = 0.0550
                                degrees of freedom = 101

      Ha: diff < 0
Pr(T < t) = 0.5219
      Ha: diff != 0
Pr(|T| > |t|) = 0.9563
      Ha: diff > 0
Pr(T > t) = 0.4781

```

```

. by full, sort: ttest CUPAdiff, by(asian)

```

```

-----
---
-> full = 0

```


CUPAtable

-> assoc = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	76	8737.584	199.5168	1739.347	8340.126	9135.042
1	35	9466.873	429.4681	2540.768	8594.089	10339.66
combined	111	8967.54	193.9148	2043.02	8583.247	9351.834
diff		-729.2889	413.3929		-1548.62	90.04238

diff = mean(0) - mean(1) t = -1.7642
 Ho: diff = 0 degrees of freedom = 109

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.0403 Pr(|T| > |t|) = 0.0805 Pr(T > t) = 0.9597

. by assoc, sort: ttest morate, by(asian)

-> assoc = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	127	9365.525	229.5651	2587.067	8911.222	9819.827
1	44	9278.272	419.5338	2782.872	8432.201	10124.34
combined	171	9343.074	201.1803	2630.773	8945.94	9740.207
diff		87.25291	461.5178		-823.8296	998.3354

diff = mean(0) - mean(1) t = 0.1891
 Ho: diff = 0 degrees of freedom = 169

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.5749 Pr(|T| > |t|) = 0.8503 Pr(T > t) = 0.4251

-> assoc = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	76	7963.132	221.0469	1927.042	7522.784	8403.48
1	35	8735.71	474.0112	2804.288	7772.403	9699.016
combined	111	8206.738	214.1957	2256.692	7782.252	8631.223
diff		-772.5776	457.1509		-1678.636	133.4806

diff = mean(0) - mean(1) t = -1.6900
 Ho: diff = 0 degrees of freedom = 109

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.0469 Pr(|T| > |t|) = 0.0939 Pr(T > t) = 0.9531

CUPAtable

. by assoc, sort: ttest CUPAdiff, by(asian)

 -> assoc = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	127	1171.5	125.7569	1417.208	922.6313	1420.37
1	44	1140.068	226.4803	1502.3	683.3266	1596.809
combined	171	1163.412	109.7496	1435.163	946.7649	1380.06
diff		31.43287	251.7863		-465.6185	528.4842

diff = mean(0) - mean(1) t = 0.1248
 Ho: diff = 0 degrees of freedom = 169

Ha: diff < 0 Pr(T < t) = 0.5496
 Ha: diff != 0 Pr(|T| > |t|) = 0.9008
 Ha: diff > 0 Pr(T > t) = 0.4504

 -> assoc = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	76	774.4522	107.0061	932.8571	561.2852	987.6192
1	35	731.1635	141.7522	838.6172	443.0884	1019.239
combined	111	760.8026	85.48319	900.6213	591.395	930.2102
diff		43.28868	184.7722		-322.9239	409.5012

diff = mean(0) - mean(1) t = 0.2343
 Ho: diff = 0 degrees of freedom = 109

Ha: diff < 0 Pr(T < t) = 0.5924
 Ha: diff != 0 Pr(|T| > |t|) = 0.8152
 Ha: diff > 0 Pr(T > t) = 0.4076

. clear all

. use C:\Users\TA0VLW1\Desktop\WORKING\DATA\FINAL\FSS2015-16B

. keep if asian==1
 (488 observations deleted)

. gen CUPAdiff=0

. replace CUPAdiff=CUPA_NATR - morate
 (87 real changes made)

. ttest CUPA_NATR = morate

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
----------	-----	------	-----------	-----------	----------------------	--

CUPAtable

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
CUPA_N~R	35	9466.873	429.4681	2540.768	8594.089	10339.66
morate	35	8735.71	474.0112	2804.288	7772.403	9699.016
diff	35	731.1635	141.7522	838.6172	443.0884	1019.239
mean(diff) = mean(CUPA_NATR - morate)				t =		5.1580
Ho: mean(diff) = 0				degrees of freedom =		34
Ha: mean(diff) < 0		Ha: mean(diff) != 0		Ha: mean(diff) > 0		
Pr(T < t) = 1.0000		Pr(T > t) = 0.0000		Pr(T > t) = 0.0000		

. ttest CUPA_NATR = morate if assist==1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
CUPA_N~R	26	9154.217	492.3499	2510.502	8140.203	10168.23
morate	26	8483.653	525.8683	2681.413	7400.607	9566.699
diff	26	670.564	218.2752	1112.989	221.0179	1120.11
mean(diff) = mean(CUPA_NATR - morate)				t =		3.0721
Ho: mean(diff) = 0				degrees of freedom =		25
Ha: mean(diff) < 0		Ha: mean(diff) != 0		Ha: mean(diff) > 0		
Pr(T < t) = 0.9975		Pr(T > t) = 0.0051		Pr(T > t) = 0.0025		

. clear all

. * BLACK FACULTY MEMBERS
 . use C:\Users\TA0VLW1\Desktop\WORKING\DATA\FINAL\FSS2015-16B

. keep if whmale==1 | black==1
 (296 observations deleted)

. gen CUPAdiff=0

. replace CUPAdiff=CUPA_NATR - morate
 (279 real changes made)

. ttest CUPA_NATR, by(black)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	255	10009.01	167.7641	2678.978	9678.622	10339.39
1	24	8727.168	307.2577	1505.249	8091.557	9362.779
combined	279	9898.742	156.9699	2621.915	9589.741	10207.74
diff		1281.839	555.5115		188.279	2375.4
diff = mean(0) - mean(1)				t =		2.3075
Ho: diff = 0				degrees of freedom =		277

CUPAtable

Ha: di ff < 0
Pr(T < t) = 0.9891

Ha: di ff != 0
Pr(|T| > |t|) = 0.0218

Ha: di ff > 0
Pr(T > t) = 0.0109

. ttest morate, by(black)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	255	9081.878	160.1175	2556.872	8766.551	9397.205
1	24	8111.789	236.9723	1160.922	7621.575	8602.004
combined	279	8998.429	148.5769	2481.724	8705.951	9290.908
di ff		970.0888	527.6288		-68.58282	2008.76
di ff = mean(0) - mean(1)					t =	1.8386
Ho: di ff = 0					degrees of freedom =	277

Ha: di ff < 0
Pr(T < t) = 0.9665

Ha: di ff != 0
Pr(|T| > |t|) = 0.0670

Ha: di ff > 0
Pr(T > t) = 0.0335

. ttest CUPAdi ff, by(black)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	255	927.1297	83.47279	1332.954	762.7427	1091.517
1	24	615.379	232.2936	1138.002	134.8431	1095.915
combined	279	900.3124	78.93077	1318.404	744.9345	1055.69
di ff		311.7507	281.3826		-242.1692	865.6705
di ff = mean(0) - mean(1)					t =	1.1079
Ho: di ff = 0					degrees of freedom =	277

Ha: di ff < 0
Pr(T < t) = 0.8656

Ha: di ff != 0
Pr(|T| > |t|) = 0.2689

Ha: di ff > 0
Pr(T > t) = 0.1344

. by full, sort: ttest CUPA_NATR, by(black)

-> full = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	143	8577.009	150.4201	1798.763	8279.657	8874.361
1	15	7836.012	154.93	600.0414	7503.72	8168.304
combined	158	8506.661	137.9324	1733.784	8234.219	8779.104
di ff		740.9969	468.3173		-184.0644	1666.058
di ff = mean(0) - mean(1)					t =	1.5823
Ho: di ff = 0					degrees of freedom =	156

CUPAtable

Ha: di ff < 0 Ha: di ff != 0 Ha: di ff > 0
Pr(T < t) = 0.9422 Pr(|T| > |t|) = 0.1156 Pr(T > t) = 0.0578

-> full = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	112	11837.36	236.5848	2503.779	11368.55	12306.17
1	9	10212.43	461.0641	1383.192	9149.212	11275.64
combined	121	11716.5	224.7053	2471.758	11271.6	12161.4
di ff		1624.935	846.9756		-52.16151	3302.031

di ff = mean(0) - mean(1) t = 1.9185
Ho: di ff = 0 degrees of freedom = 119

Ha: di ff < 0 Ha: di ff != 0 Ha: di ff > 0
Pr(T < t) = 0.9713 Pr(|T| > |t|) = 0.0574 Pr(T > t) = 0.0287

. by full, sort: ttest morate, by(black)

-> full = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	143	7878.951	164.6632	1969.085	7553.443	8204.459
1	15	7531.571	140.2607	543.2272	7230.741	7832.4
combined	158	7845.972	149.7594	1882.446	7550.169	8141.775
di ff		347.3808	511.7816		-663.5349	1358.297

di ff = mean(0) - mean(1) t = 0.6788
Ho: di ff = 0 degrees of freedom = 156

Ha: di ff < 0 Ha: di ff != 0 Ha: di ff > 0
Pr(T < t) = 0.7509 Pr(|T| > |t|) = 0.4983 Pr(T > t) = 0.2491

-> full = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	112	10617.76	226.6877	2399.037	10168.56	11066.95
1	9	9078.82	431.4149	1294.245	8083.975	10073.66
combined	121	10503.29	215.1265	2366.392	10077.36	10929.23
di ff		1538.937	811.1389		-67.19866	3145.073

di ff = mean(0) - mean(1) t = 1.8973

CUPAtable

Ho: di ff = 0 degrees of freedom = 119

Ha: di ff < 0 Pr(T < t) = 0.9699 Ha: di ff != 0 Pr(|T| > |t|) = 0.0602 Ha: di ff > 0 Pr(T > t) = 0.0301

. by full, sort: ttest CUPAdi ff, by(black)

-> full = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	143	698.0577	84.60701	1011.753	530.8056	865.3098
1	15	304.4416	147.4345	571.0115	-11.77405	620.6572
combined	158	660.6891	78.28523	984.0301	506.0609	815.3172
di ff		393.6161	266.0636		-131.936	919.1682

di ff = mean(0) - mean(1) t = 1.4794
Ho: di ff = 0 degrees of freedom = 156

Ha: di ff < 0 Pr(T < t) = 0.9295 Ha: di ff != 0 Pr(|T| > |t|) = 0.1410 Ha: di ff > 0 Pr(T > t) = 0.0705

-> full = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	112	1219.605	152.4301	1613.168	917.5551	1521.656
1	9	1133.608	544.5954	1633.786	-122.2312	2389.447
combined	121	1213.209	146.1801	1607.981	923.7826	1502.635
di ff		85.99745	559.3933		-1021.657	1193.652

di ff = mean(0) - mean(1) t = 0.1537
Ho: di ff = 0 degrees of freedom = 119

Ha: di ff < 0 Pr(T < t) = 0.5610 Ha: di ff != 0 Pr(|T| > |t|) = 0.8781 Ha: di ff > 0 Pr(T > t) = 0.4390

. by assoc, sort: ttest CUPA_NATR, by(black)

-> assoc = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	157	10735.94	233.4955	2925.691	10274.72	11197.17
1	13	9315.672	505.9119	1824.091	8213.385	10417.96
combined	170	10627.34	220.7046	2877.636	10191.64	11063.03

CUPAtable

diff	1420.272	825.7277	-209.8672	3050.412
diff = mean(0) - mean(1)			t = 1.7200	
Ho: diff = 0			degrees of freedom = 168	
Ha: diff < 0	Pr(T < t) = 0.9564	Ha: diff != 0	Pr(T > t) = 0.0873	Ha: diff > 0
			Pr(T > t) = 0.0436	

-> assoc = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	98	8844.425	169.0784	1673.791	8508.851	9179.999
1	11	8031.663	146.5271	485.9755	7705.18	8358.146
combined	109	8762.403	154.4029	1612.014	8456.35	9068.456
diff		812.7616	508.9533		-196.179	1821.702
diff = mean(0) - mean(1)					t = 1.5969	
Ho: diff = 0					degrees of freedom = 107	
Ha: diff < 0	Pr(T < t) = 0.9434	Ha: diff != 0	Pr(T > t) = 0.1132	Ha: diff > 0	Pr(T > t) = 0.0566	

. by assoc, sort: ttest morate, by(black)

-> assoc = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	157	9745.396	214.7614	2690.953	9321.18	10169.61
1	13	8487.6	399.4178	1440.121	7617.343	9357.857
combined	170	9649.212	202.1046	2635.121	9250.237	10048.19
diff		1257.796	756.5695		-235.8123	2751.404
diff = mean(0) - mean(1)					t = 1.6625	
Ho: diff = 0					degrees of freedom = 168	
Ha: diff < 0	Pr(T < t) = 0.9509	Ha: diff != 0	Pr(T > t) = 0.0983	Ha: diff > 0	Pr(T > t) = 0.0491	

-> assoc = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	98	8018.895	192.1737	1902.422	7637.483	8400.306
1	11	7667.649	138.3259	458.775	7359.44	7975.858


```

                                CUPAtable
Group |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----
      0 |      210     10440.66     180.8683     2621.031     10084.1     10797.22
      1 |       20     9013.007      329.307     1472.706     8323.76     9702.255
-----+-----
combi ned |      230     10316.51     169.5557     2571.439     9982.426     10650.6
-----+-----
      di ff |           1427.651     595.6097           254.0479     2601.254
-----+-----
      di ff = mean(0) - mean(1)
Ho: di ff = 0
                                t = 2.3970
                                degrees of freedom = 228

      Ha: di ff < 0
Pr(T < t) = 0.9913
      Ha: di ff != 0
Pr(|T| > |t|) = 0.0173
      Ha: di ff > 0
Pr(T > t) = 0.0087

```

```

---
-> assist = 1

```

```

Two-sample t test with equal variances

```

```

Group |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----
      0 |      45     7994.637     289.0468     1938.985     7412.102     8577.173
      1 |       4     7297.972     302.7587     605.5173     6334.459     8261.485
-----+-----
combi ned |      49     7937.767     267.5061     1872.543     7399.91     8475.624
-----+-----
      di ff |           696.6652     982.0932           -1279.052     2672.382
-----+-----
      di ff = mean(0) - mean(1)
Ho: di ff = 0
                                t = 0.7094
                                degrees of freedom = 47

      Ha: di ff < 0
Pr(T < t) = 0.7592
      Ha: di ff != 0
Pr(|T| > |t|) = 0.4816
      Ha: di ff > 0
Pr(T > t) = 0.2408

```

```

. by assist, sort: ttest morate, by(black)

```

```

---
-> assist = 0

```

```

Two-sample t test with equal variances

```

```

Group |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----
      0 |      210     9404.955     174.9214     2534.852     9060.118     9749.791
      1 |       20     8302.676     258.3487     1155.371     7761.946     8843.406
-----+-----
combi ned |      230     9309.105     162.48     2464.131     8988.958     9629.251
-----+-----
      di ff |           1102.279     573.2716           -27.30877     2231.866
-----+-----
      di ff = mean(0) - mean(1)
Ho: di ff = 0
                                t = 1.9228
                                degrees of freedom = 228

      Ha: di ff < 0
Pr(T < t) = 0.9721
      Ha: di ff != 0
Pr(|T| > |t|) = 0.0558
      Ha: di ff > 0
Pr(T > t) = 0.0279

```

```

---
-> assist = 1

```


CUPAtable

(54 observations deleted)

. by full, sort: ttest CUPA_NATR, by(black)

```
-----
---
-> full = 0

Two-sample t test with equal variances
```

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	119	8444.541	170.0164	1854.66	8107.863	8781.22
1	13	7913.031	141.6988	510.9022	7604.296	8221.766
combined	132	8392.196	154.4197	1774.147	8086.717	8697.675
diff		531.5101	518.1371		-493.5622	1556.582

```
-----
diff = mean(0) - mean(1)
Ho: diff = 0
degrees of freedom = 130
t = 1.0258

Ha: diff < 0
Pr(T < t) = 0.8466

Ha: diff != 0
Pr(|T| > |t|) = 0.3069

Ha: diff > 0
Pr(T > t) = 0.1534
-----
```

```
---
-> full = 1

Two-sample t test with equal variances
```

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	84	11873.31	280.2136	2568.2	11315.98	12430.65
1	9	10212.43	461.0641	1383.192	9149.212	11275.64
combined	93	11712.58	261.5202	2522.01	11193.18	12231.98
diff		1660.884	872.1991		-71.63266	3393.4

```
-----
diff = mean(0) - mean(1)
Ho: diff = 0
degrees of freedom = 91
t = 1.9042

Ha: diff < 0
Pr(T < t) = 0.9700

Ha: diff != 0
Pr(|T| > |t|) = 0.0600

Ha: diff > 0
Pr(T > t) = 0.0300
-----
```

. by full, sort: ttest morate, by(black)

```
-----
---
-> full = 0

Two-sample t test with equal variances
```

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	119	7796.682	183.4789	2001.518	7433.343	8160.02
1	13	7574.685	144.497	520.9913	7259.853	7889.517
combined	132	7774.818	166.0093	1907.302	7446.412	8103.224
diff		221.9969	558.9357		-883.7905	1327.784


```

                                CUPAtabl e
di ff |                420. 4825      505. 326                -583. 2855      1424. 251
-----
di ff = mean(0) - mean(1)
Ho: di ff = 0                                t = 0. 8321
degrees of freedom = 91

Ha: di ff < 0                                Ha: di ff != 0                                Ha: di ff > 0
Pr(T < t) = 0. 7962                        Pr(|T| > |t|) = 0. 4075                        Pr(T > t) = 0. 2038

```

```
. by assoc, sort: ttest CUPA_NATR, by(black)
```

```

---
-> assoc = 0

```

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

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	127	10537. 03	268. 2392	3022. 902	10006. 19 11067. 86
1	12	9548. 654	488. 1935	1691. 152	8474. 148 10623. 16
combi ned	139	10451. 7	249. 4442	2940. 904	9958. 471 10944. 93
di ff		988. 3709	887. 3964		-766. 3944 2743. 136

```

di ff = mean(0) - mean(1)
Ho: di ff = 0                                t = 1. 1138
degrees of freedom = 137

Ha: di ff < 0                                Ha: di ff != 0                                Ha: di ff > 0
Pr(T < t) = 0. 8663                        Pr(|T| > |t|) = 0. 2673                        Pr(T > t) = 0. 1337

```

```

---
-> assoc = 1

```

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

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	76	8737. 584	199. 5168	1739. 347	8340. 126 9135. 042
1	10	8019. 741	161. 4547	510. 5646	7654. 505 8384. 977
combi ned	86	8654. 114	178. 8394	1658. 488	8298. 534 9009. 695
di ff		717. 8437	555. 7166		-387. 2598 1822. 947

```

di ff = mean(0) - mean(1)
Ho: di ff = 0                                t = 1. 2917
degrees of freedom = 84

Ha: di ff < 0                                Ha: di ff != 0                                Ha: di ff > 0
Pr(T < t) = 0. 9000                        Pr(|T| > |t|) = 0. 2000                        Pr(T > t) = 0. 1000

```

```
. by assoc, sort: ttest morate, by(black)
```

```

---
-> assoc = 0

```

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

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	127	9365. 525	229. 5651	2587. 067	8911. 222 9819. 827

```

                                CUPAtable
      1 |      12      8639.673      401.5093      1390.869      7755.957      9523.389
-----+-----
combined |      139      9302.861      213.0117      2511.371      8881.673      9724.05
-----+-----
      diff |              725.8514      758.6807              -774.3876      2226.09
-----+-----
      diff = mean(0) - mean(1)
Ho: diff = 0
                                t = 0.9567
                                degrees of freedom = 137

      Ha: diff < 0
Pr(T < t) = 0.8298
      Ha: diff != 0
Pr(|T| > |t|) = 0.3404
      Ha: diff > 0
Pr(T > t) = 0.1702

```

```

-----
---
-> assoc = 1

```

Two-sample t test with equal variances

```

-----+-----
      Group |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----
      0 |      76      7963.132      221.0469      1927.042      7522.784      8403.48
      1 |      10      7650.42      151.7341      479.8255      7307.174      7993.666
-----+-----
combined |      86      7926.77      196.2188      1819.658      7536.635      8316.906
-----+-----
      diff |              312.7121      614.8005              -909.8861      1535.31
-----+-----
      diff = mean(0) - mean(1)
Ho: diff = 0
                                t = 0.5086
                                degrees of freedom = 84

      Ha: diff < 0
Pr(T < t) = 0.6938
      Ha: diff != 0
Pr(|T| > |t|) = 0.6123
      Ha: diff > 0
Pr(T > t) = 0.3062

```

```

. by assoc, sort: ttest CUPAdiff, by(black)

```

```

-----
---
-> assoc = 0

```

Two-sample t test with equal variances

```

-----+-----
      Group |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----
      0 |      127      1171.5      125.7569      1417.208      922.6313      1420.37
      1 |      12      908.981      427.3944      1480.538      -31.70766      1849.67
-----+-----
combined |      139      1148.837      120.372      1419.164      910.825      1386.849
-----+-----
      diff |              262.5195      429.5718              -586.9292      1111.968
-----+-----
      diff = mean(0) - mean(1)
Ho: diff = 0
                                t = 0.6111
                                degrees of freedom = 137

      Ha: diff < 0
Pr(T < t) = 0.7289
      Ha: diff != 0
Pr(|T| > |t|) = 0.5421
      Ha: diff > 0
Pr(T > t) = 0.2711

```

```

-----
---
-> assoc = 1

```

Two-sample t test with equal variances

```

-----+-----
      Group |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----

```


$$\begin{aligned} \text{Ha: mean(diff)} < 0 & \quad \text{CUPAtable} & \quad \text{Ha: mean(diff)} > 0 \\ \text{Pr}(T < t) = 0.6666 & \quad \text{Ha: mean(diff)} \neq 0 & \quad \text{Pr}(T > t) = 0.3334 \\ & \quad \text{Pr}(|T| > |t|) = 0.6668 & \end{aligned}$$

```

. clear all

. * HISPANIC FACULTY MEMBERS
. use C:\Users\TAOVLW1\Desktop\WORKING\DATA\FINAL\FSS2015-16B

. keep if whmale==1 | hisp==1
(301 observations deleted)

. gen CUPAdiff=0

. replace CUPAdiff=CUPA_NATR - morate
(274 real changes made)

. ttest CUPA_NATR, by(hisp)

```

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	255	10009.01	167.7641	2678.978	9678.622 10339.39
1	19	9476.471	524.0565	2284.309	8375.469 10577.47
combined	274	9972.08	160.29	2653.271	9656.518 10287.64
diff		532.5369	631.3054		-710.3292 1775.403

$$\begin{aligned} \text{diff} &= \text{mean}(0) - \text{mean}(1) & \quad t &= 0.8435 \\ \text{Ho: diff} &= 0 & \quad \text{degrees of freedom} &= 272 \end{aligned}$$

$$\begin{aligned} \text{Ha: diff} < 0 & \quad \text{Ha: diff} \neq 0 & \quad \text{Ha: diff} > 0 \\ \text{Pr}(T < t) = 0.8002 & \quad \text{Pr}(|T| > |t|) = 0.3997 & \quad \text{Pr}(T > t) = 0.1998 \end{aligned}$$

```

. ttest morate, by(hisp)

```

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	255	9081.878	160.1175	2556.872	8766.551 9397.205
1	19	8412.092	428.0127	1865.664	7512.87 9311.313
combined	274	9035.433	152.1278	2518.164	8735.94 9334.926
diff		669.7864	598.5659		-508.6245 1848.197

$$\begin{aligned} \text{diff} &= \text{mean}(0) - \text{mean}(1) & \quad t &= 1.1190 \\ \text{Ho: diff} &= 0 & \quad \text{degrees of freedom} &= 272 \end{aligned}$$

$$\begin{aligned} \text{Ha: diff} < 0 & \quad \text{Ha: diff} \neq 0 & \quad \text{Ha: diff} > 0 \\ \text{Pr}(T < t) = 0.8679 & \quad \text{Pr}(|T| > |t|) = 0.2641 & \quad \text{Pr}(T > t) = 0.1321 \end{aligned}$$

```

. ttest CUPAdiff, by(hisp)

```

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	255	927.1297	83.47279	1332.954	762.7427 1091.517


```

                                CUPAtable
      1 |      19   1064.379   277.2057   1208.312   481.9916   1646.767
-----+-----
combined |      274   936.647   79.93137   1323.1   779.2867   1094.007
-----+-----
      diff |           -137.2495   315.1131           -757.6201   483.1211
-----+-----
      diff = mean(0) - mean(1)
Ho: diff = 0
                                t = -0.4356
                                degrees of freedom = 272

      Ha: diff < 0
Pr(T < t) = 0.3318

      Ha: diff != 0
Pr(|T| > |t|) = 0.6635

      Ha: diff > 0
Pr(T > t) = 0.6682

```

```

. by full, sort: ttest CUPA_NATR, by(hisp)

```

```

-----
---
-> full = 0

```

```

Two-sample t test with equal variances

```

```

-----+-----
      Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
      0 |      143   8577.009   150.4201   1798.763   8279.657   8874.361
      1 |       14   9096.976   655.6417   2453.187   7680.548   10513.4
-----+-----
combined |      157   8623.376   148.6412   1862.469   8329.767   8916.985
-----+-----
      diff |           -519.967   521.5733           -1550.276   510.3422
-----+-----
      diff = mean(0) - mean(1)
Ho: diff = 0
                                t = -0.9969
                                degrees of freedom = 155

      Ha: diff < 0
Pr(T < t) = 0.1602

      Ha: diff != 0
Pr(|T| > |t|) = 0.3204

      Ha: diff > 0
Pr(T > t) = 0.8398

```

```

-----
---
-> full = 1

```

```

Two-sample t test with equal variances

```

```

-----+-----
      Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
      0 |      112  11837.36   236.5848   2503.779  11368.55  12306.17
      1 |         5  10539.06   633.5595   1416.682  8780.012  12298.1
-----+-----
combined |      117  11781.88   229.0346   2477.388  11328.25  12235.51
-----+-----
      diff |           1298.307   1130.832           -941.6543  3538.269
-----+-----
      diff = mean(0) - mean(1)
Ho: diff = 0
                                t = 1.1481
                                degrees of freedom = 115

      Ha: diff < 0
Pr(T < t) = 0.8733

      Ha: diff != 0
Pr(|T| > |t|) = 0.2533

      Ha: diff > 0
Pr(T > t) = 0.1267

```

```

. by full, sort: ttest morate, by(hisp)

```

```

-----
---
-> full = 0

```


CUPAtable

-> full = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]		
0	112	1219.605	152.4301	1613.168	917.5551	1521.656	
1	5	1969.672	393.1099	879.0204	878.2235	3061.12	
combined		117	1251.66	147.3411	1593.738	959.8319	1543.487
diff			-750.0661	728.2864		-2192.661	692.529

diff = mean(0) - mean(1) t = -1.0299
 Ho: diff = 0 degrees of freedom = 115

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.1526 Pr(|T| > |t|) = 0.3052 Pr(T > t) = 0.8474

. by assoc, sort: ttest CUPA_NATR, by(hisp)

-> assoc = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]		
0	157	10735.94	233.4955	2925.691	10274.72	11197.17	
1	11	9260.116	602.9393	1999.723	7916.684	10603.55	
combined		168	10639.31	223.1989	2892.989	10198.66	11079.97
diff			1475.829	897.7443		-296.6399	3248.297

diff = mean(0) - mean(1) t = 1.6439
 Ho: diff = 0 degrees of freedom = 166

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.9490 Pr(|T| > |t|) = 0.1021 Pr(T > t) = 0.0510

-> assoc = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]		
0	98	8844.425	169.0784	1673.791	8508.851	9179.999	
1	8	9773.958	970.2118	2744.173	7479.772	12068.14	
combined		106	8914.578	172.414	1775.11	8572.713	9256.443
diff			-929.5335	649.4757		-2217.468	358.4012

diff = mean(0) - mean(1) t = -1.4312
 Ho: diff = 0 degrees of freedom = 104

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.0777 Pr(|T| > |t|) = 0.1554 Pr(T > t) = 0.9223

CUPAtable

. by assoc, sort: ttest morate, by(hi sp)

```

-----
---
-> assoc = 0

Two-sample t test with equal variances
-----
  Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
    0   |      157   9745.396   214.7614   2690.953   9321.18   10169.61
    1   |       11   7835.051   287.8259   954.6107   7193.735   8476.367
-----+-----
combined |      168   9620.314   204.757   2653.954   9216.068   10024.56
-----+-----
  diff  |           1910.345   816.8975           297.4973   3523.193
-----+-----
  diff = mean(0) - mean(1)
Ho: diff = 0
                                     t = 2.3385
                                     degrees of freedom = 166

  Ha: diff < 0
Pr(T < t) = 0.9897
  Ha: diff != 0
Pr(|T| > |t|) = 0.0206
  Ha: diff > 0
Pr(T > t) = 0.0103
-----

```

```

-----
---
-> assoc = 1

Two-sample t test with equal variances
-----
  Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
    0   |       98   8018.895   192.1737   1902.422   7637.483   8400.306
    1   |       8   9205.523   894.8348   2530.975   7089.574   11321.47
-----+-----
combined |      106   8108.452   191.0671   1967.156   7729.601   8487.302
-----+-----
  diff  |           -1186.628   717.4197           -2609.298   236.0425
-----+-----
  diff = mean(0) - mean(1)
Ho: diff = 0
                                     t = -1.6540
                                     degrees of freedom = 104

  Ha: diff < 0
Pr(T < t) = 0.0506
  Ha: diff != 0
Pr(|T| > |t|) = 0.1011
  Ha: diff > 0
Pr(T > t) = 0.9494
-----

```

. by assoc, sort: ttest CUPAdiff, by(hi sp)

```

-----
---
-> assoc = 0

Two-sample t test with equal variances
-----
  Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
    0   |      157    990.5486   121.0018   1516.148   751.5353   1229.562
    1   |       11   1425.065   383.8192   1272.984   569.8628   2280.268
-----+-----
combined |      168   1018.999   115.8804   1501.982   790.2198   1247.778
-----+-----
  diff  |           -434.5166   468.6577           -1359.815   490.7814
-----+-----
  diff = mean(0) - mean(1)
Ho: diff = 0
                                     t = -0.9272
                                     degrees of freedom = 166
-----

```


CUPAtable

di ff = mean(0) - mean(1) t = -0.2382
 Ho: di ff = 0 degrees of freedom = 49

Ha: di ff < 0 Ha: di ff != 0 Ha: di ff > 0
 Pr(T < t) = 0.4064 Pr(|T| > |t|) = 0.8128 Pr(T > t) = 0.5936

. by assist, sort: ttest morate, by(hisp)

 -> assist = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	210	9404.955	174.9214	2534.852	9060.118	9749.791
1	13	8960.854	559.858	2018.597	7741.028	10180.68
combined	223	9379.066	167.8182	2506.06	9048.345	9709.786
di ff		444.101	717.2435		-969.4112	1857.613

di ff = mean(0) - mean(1) t = 0.6192
 Ho: di ff = 0 degrees of freedom = 221

Ha: di ff < 0 Ha: di ff != 0 Ha: di ff > 0
 Pr(T < t) = 0.7318 Pr(|T| > |t|) = 0.5364 Pr(T > t) = 0.2682

 -> assist = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	45	7574.186	312.5441	2096.609	6944.295	8204.077
1	6	7223.107	212.8321	521.3302	6676.004	7770.209
combined	51	7532.882	276.8346	1976.995	6976.844	8088.921
di ff		351.0791	866.5016		-1390.221	2092.379

di ff = mean(0) - mean(1) t = 0.4052
 Ho: di ff = 0 degrees of freedom = 49

Ha: di ff < 0 Ha: di ff != 0 Ha: di ff > 0
 Pr(T < t) = 0.6564 Pr(|T| > |t|) = 0.6871 Pr(T > t) = 0.3436

. by assist, sort: ttest CUPAdi ff, by(hisp)

 -> assist = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	210	1035.704	94.02651	1362.574	850.3416	1221.065
1	13	1107.373	318.3373	1147.782	413.7752	1800.97

```

                                CUPAtable
combined |      223    1039.882    90.32529    1348.844    861.8768    1217.886
-----+-----
diff |              -71.66913    386.3487              -833.0683    689.73
-----+-----
diff = mean(0) - mean(1)
Ho: diff = 0
                                t = -0.1855
                                degrees of freedom = 221

Ha: diff < 0
Pr(T < t) = 0.4265

Ha: diff != 0
Pr(|T| > |t|) = 0.8530

Ha: diff > 0
Pr(T > t) = 0.5735

```

```

---
-> assist = 1

```

Two-sample t test with equal variances

```

-----+-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
0 |      45    420.4516    157.6973    1057.866    102.6336    738.2696
1 |      6     971.2267    588.6533    1441.9    -541.9549    2484.408
-----+-----
combined |      51    485.2487    154.9711    1106.715    173.9802    796.5172
diff |              -550.775    479.4633              -1514.293    412.7425
-----+-----
diff = mean(0) - mean(1)
Ho: diff = 0
                                t = -1.1487
                                degrees of freedom = 49

Ha: diff < 0
Pr(T < t) = 0.1281

Ha: diff != 0
Pr(|T| > |t|) = 0.2562

Ha: diff > 0
Pr(T > t) = 0.8719

```

```

. keep if rkyrs<10
(52 observations deleted)

```

```

. by full, sort: ttest CUPA_NATR, by(hisp)

```

```

---
-> full = 0

```

Two-sample t test with equal variances

```

-----+-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
0 |     119    8444.541    170.0164    1854.66    8107.863    8781.22
1 |      14    9096.976    655.6417    2453.187    7680.548    10513.4
-----+-----
combined |     133    8513.219    166.9728    1925.624    8182.93    8843.507
diff |              -652.4348    543.1661              -1726.947    422.0772
-----+-----
diff = mean(0) - mean(1)
Ho: diff = 0
                                t = -1.2012
                                degrees of freedom = 131

Ha: diff < 0
Pr(T < t) = 0.1159

Ha: diff != 0
Pr(|T| > |t|) = 0.2319

Ha: diff > 0
Pr(T > t) = 0.8841

```

```

---
-> full = 1

```

Two-sample t test with equal variances

CUPAtable

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	84	11873.31	280.2136	2568.2	11315.98 12430.65
1	5	10539.06	633.5595	1416.682	8780.012 12298.1
combined	89	11798.35	268.3196	2531.322	11265.12 12331.58
diff		1334.256	1163.161		-977.6525 3646.165

diff = mean(0) - mean(1) t = 1.1471
 Ho: diff = 0 degrees of freedom = 87

Ha: diff < 0 Pr(T < t) = 0.8728 Ha: diff != 0 Pr(|T| > |t|) = 0.2545 Ha: diff > 0 Pr(T > t) = 0.1272

. by full, sort: ttest morate, by(hisp)

-> full = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	119	7796.682	183.4789	2001.518	7433.343 8160.02
1	14	8355.916	572.6071	2142.5	7118.873 9592.958
combined	133	7855.548	174.7811	2015.674	7509.814 8201.283
diff		-559.2342	569.5974		-1686.034 567.5653

diff = mean(0) - mean(1) t = -0.9818
 Ho: diff = 0 degrees of freedom = 131

Ha: diff < 0 Pr(T < t) = 0.1640 Ha: diff != 0 Pr(|T| > |t|) = 0.3280 Ha: diff > 0 Pr(T > t) = 0.8360

-> full = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
0	84	10319.22	248.137	2274.214	9825.687 10812.76
1	5	8569.384	374.8873	838.2735	7528.53 9610.238
combined	89	10220.92	238.7778	2252.625	9746.395 10695.44
diff		1749.837	1025.884		-289.2181 3788.893

diff = mean(0) - mean(1) t = 1.7057
 Ho: diff = 0 degrees of freedom = 87

Ha: diff < 0 Pr(T < t) = 0.9542 Ha: diff != 0 Pr(|T| > |t|) = 0.0916 Ha: diff > 0 Pr(T > t) = 0.0458

. by full, sort: ttest CUPAdiff, by(hisp)

CUPAtable

-> full = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	119	647.8599	91.61105	999.3586	466.445	829.2747
1	14	741.0605	311.2218	1164.485	68.70669	1413.414
combined	133	657.6705	87.88087	1013.492	483.8334	831.5075
diff		-93.2006	287.333		-661.6138	475.2126

diff = mean(0) - mean(1) t = -0.3244
 Ho: diff = 0 degrees of freedom = 131

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.3731 Pr(|T| > |t|) = 0.7462 Pr(T > t) = 0.6269

-> full = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	84	1554.091	155.0185	1420.768	1245.765	1862.416
1	5	1969.672	393.1099	879.0204	878.2235	3061.12
combined	89	1577.438	147.9551	1395.805	1283.408	1871.467
diff		-415.581	644.6771		-1696.947	865.7844

diff = mean(0) - mean(1) t = -0.6446
 Ho: diff = 0 degrees of freedom = 87

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.2604 Pr(|T| > |t|) = 0.5209 Pr(T > t) = 0.7396

. by assoc, sort: ttest CUPA_NATR, by(hisp)

-> assoc = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	127	10537.03	268.2392	3022.902	10006.19	11067.86
1	11	9260.116	602.9393	1999.723	7916.684	10603.55
combined	138	10435.24	252.7616	2969.277	9935.424	10935.06
diff		1276.909	930.2401		-562.6973	3116.515

diff = mean(0) - mean(1) t = 1.3727
 Ho: diff = 0 degrees of freedom = 136

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.9139 Pr(|T| > |t|) = 0.1721 Pr(T > t) = 0.0861

CUPAtable

-> assoc = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	76	8737.584	199.5168	1739.347	8340.126	9135.042
1	8	9773.958	970.2118	2744.173	7479.772	12068.14
combined	84	8836.287	203.0276	1860.779	8432.473	9240.1
diff		-1036.374	686.3721		-2401.787	329.0388

diff = mean(0) - mean(1) t = -1.5099
 Ho: diff = 0 degrees of freedom = 82

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.0675 Pr(|T| > |t|) = 0.1349 Pr(T > t) = 0.9325

. by assoc, sort: ttest morate, by(hisp)

-> assoc = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	127	9365.525	229.5651	2587.067	8911.222	9819.827
1	11	7835.051	287.8259	954.6107	7193.735	8476.367
combined	138	9243.53	215.2708	2528.859	8817.847	9669.214
diff		1530.474	786.8624		-25.59443	3086.542

diff = mean(0) - mean(1) t = 1.9450
 Ho: diff = 0 degrees of freedom = 136

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = 0.9731 Pr(|T| > |t|) = 0.0538 Pr(T > t) = 0.0269

-> assoc = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	76	7963.132	221.0469	1927.042	7522.784	8403.48
1	8	9205.523	894.8348	2530.975	7089.574	11321.47
combined	84	8081.455	219.0461	2007.591	7645.781	8517.129
diff		-1242.39	738.1068		-2710.72	225.9391

diff = mean(0) - mean(1) t = -1.6832
 Ho: diff = 0 degrees of freedom = 82

CUPAtable

Ha: di ff < 0 Ha: di ff != 0 Ha: di ff > 0
Pr(T < t) = 0.0481 Pr(|T| > |t|) = 0.0961 Pr(T > t) = 0.9519

. by assoc, sort: ttest CUPAdi ff, by(hi sp)

-> assoc = 0

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	127	1171.5	125.7569	1417.208	922.6313	1420.37
1	11	1425.065	383.8192	1272.984	569.8628	2280.268
combined	138	1191.712	119.4871	1403.655	955.4347	1427.99
di ff		-253.5648	442.2506		-1128.142	621.0127

di ff = mean(0) - mean(1) t = -0.5734
Ho: di ff = 0 degrees of freedom = 136

Ha: di ff < 0 Ha: di ff != 0 Ha: di ff > 0
Pr(T < t) = 0.2837 Pr(|T| > |t|) = 0.5674 Pr(T > t) = 0.7163

-> assoc = 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	76	774.4522	107.0061	932.8571	561.2852	987.6192
1	8	568.4358	345.2924	976.6343	-248.0509	1384.923
combined	84	754.8316	101.7986	933	552.3582	957.305
di ff		206.0164	348.158		-486.5808	898.6135

di ff = mean(0) - mean(1) t = 0.5917
Ho: di ff = 0 degrees of freedom = 82

Ha: di ff < 0 Ha: di ff != 0 Ha: di ff > 0
Pr(T < t) = 0.7222 Pr(|T| > |t|) = 0.5557 Pr(T > t) = 0.2778

. clear all

. use C:\Users\TA0VLW1\Desktop\WORKING\DATA\FINAL\FSS2015-16B

. keep if hi sp==1
(556 observations deleted)

. gen CUPAdi ff=0

. replace CUPAdi ff=CUPA_NATR - morate
(19 real changes made)

. ttest CUPA_NATR = morate

Paired t test

Pr(T < t) = 0.9281 CUPAtable
 Pr(|T| > |t|) = 0.1437 Pr(T > t) = 0.0719

. ttest CUPA_NATR = morate if assoc==1 & rkyrs<10

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
CUPA_N~R	8	9773.958	970.2118	2744.173	7479.772	12068.14
morate	8	9205.523	894.8348	2530.975	7089.574	11321.47
diff	8	568.4358	345.2924	976.6343	-248.0509	1384.923

mean(diff) = mean(CUPA_NATR - morate) t = 1.6462
 Ho: mean(diff) = 0 degrees of freedom = 7

Ha: mean(diff) < 0 Ha: mean(diff) != 0 Ha: mean(diff) > 0
 Pr(T < t) = 0.9281 Pr(|T| > |t|) = 0.1437 Pr(T > t) = 0.0719

. ttest CUPA_NATR = morate if assist==1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
CUPA_N~R	6	8194.333	752.046	1842.129	6261.137	10127.53
morate	6	7223.107	212.8321	521.3302	6676.004	7770.209
diff	6	971.2267	588.6533	1441.9	-541.9549	2484.408

mean(diff) = mean(CUPA_NATR - morate) t = 1.6499
 Ho: mean(diff) = 0 degrees of freedom = 5

Ha: mean(diff) < 0 Ha: mean(diff) != 0 Ha: mean(diff) > 0
 Pr(T < t) = 0.9201 Pr(|T| > |t|) = 0.1599 Pr(T > t) = 0.0799

. clear all

. ***** CLOSE OUTPUT

. log close

name: <unnamed>

log: C:\Users\TA0VLW1\Desktop\WORKING\PROGRAMS\ReportTables\CUPAtable.log

log type: text

closed on: 6 Dec 2017, 11:00:38
