

23 Apr 2004, 11:25:07

Dear Kasia

Your output starts out with summary statistics for surgery group 1 then for group 2 and then for the total group. Following this I printed out the data for patient 1 - the reason for this is two - fold, first long variable names are often abbreviated in the output and the names in the latter compared to those in column 1 of any of the above 3 tables will help you decipher variable names when abbreviated in the output(see example at bottom of file).

Next for each variable the following is done: **(i)** first or pre-op and repeat measurements are compared using a paired t-test and from this output the coefficient of repeatability can be calculated as $2 \times (\text{standard deviation of the differences})$ **(ii)** pre- and post-op differences are calculated(new name is original variable name followed by '_2') and then the two surgery groups are compared with respect to these differences using a two-sample t-test **(iii)** pre-op and post-op are compared using an paired t-test first for surgery groups separately and then for the total group and finally **(iv)** a correlation matrix is given(note that not all correlations will make sense but it is easier to just ask for everything) and included in the correlation analysis are pre-op, post-op and newly created variables for thickness, length and gap.

With kind regards

Piet

Summary data by surgery group & also for total group

. by surgery: summ n_h - li_mel_2_h;

-> surgery = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
n_h	16	72.07494	6.267857	61.468	81.666
n_v	16	7.894875	.6014963	7.032	8.82
n_r_h	10	71.8323	6.278581	61.304	80.213
n_r_v	10	7.7041	.5756765	6.83	8.497
n_2_h	16	72.06606	6.254273	61.239	81.665
n_2_v	16	7.829125	.6111361	6.83	8.761
lit_h	16	65.06925	7.013246	53.683	77.208
lit_v	16	80.25094	6.80193	68.502	96.828
lit_r_h	10	64.3479	8.023002	53.486	76.227
lit_r_v	10	81.0836	3.969001	76.492	89.067
lit_2_h	16	66.37538	6.36256	54.974	75.677
lit_2_v	16	75.46975	5.857859	65.62	88.202
lia_h	16	65.63925	7.037364	54.499	77.502
lia_v	16	81.58175	6.568256	70.236	97.773
lia_r_h	10	64.9374	8.182368	54.107	76.717
lia_r_v	10	82.4079	3.975706	77.344	90.145
lia_2_h	16	67.20075	6.368144	55.621	76.799
lia_2_v	16	77.71794	5.572822	69.281	90.785
in_h	16	59.74525	7.617663	45.39	73.003
in_v	16	92.77669	7.920547	78.862	112.541
in_r_h	10	58.5841	9.057996	45.684	73.624
in_r_v	10	94.1847	4.0841	90.365	104.332
in_2_h	16	60.94556	7.031091	46.14	74.291
in_2_v	16	90.08544	6.156202	82.286	105.786
b_h	16	55.04188	7.173765	43.56	66.565
b_v	16	104.0018	9.939951	85.926	123.291
b_r_h	10	53.9279	8.395177	43.201	66.828
b_r_v	10	105.1093	7.081645	97.935	117.829
b_2_h	16	57.94656	6.587339	44.717	68.416
b_2_v	16	98.96231	7.899897	84.476	114.018
pog_h	16	55.74194	7.511161	43.789	66.533
pog_v	16	113.3303	10.03224	98.509	138.252
pog_r_h	10	54.272	8.500457	43.723	67.186
pog_r_v	10	113.2405	7.32977	103.786	126.218
pog_2_h	16	59.61906	7.1448	44.975	69.578
pog_2_v	16	110.6272	9.636546	97.025	135.039
gn_h	16	53.59381	7.440608	41.077	64.334
gn_v	16	120.5961	10.44943	102.56	144.885
gn_r_h	10	52.0836	8.400512	40.848	64.768
gn_r_v	10	121.4807	7.224575	113.424	133.458
gn_2_h	16	57.42488	6.958293	43.778	67.03
gn_2_v	16	117.5181	10.07797	100.653	141.451
me_h	16	49.85719	7.403626	37.155	60.969
me_v	16	122.4114	10.57055	103.831	146.809
me_r_h	10	48.3098	8.313603	36.828	61.337
me_r_v	10	123.3608	7.397114	114.104	136.107
me_2_h	16	53.47744	6.475345	41.578	61.052

me_2_v		16	119.1588	10.29351	101.795	143.449
stms_h		16	76.1105	8.119898	63.723	89.624
stms_v		16	75.86475	6.189073	65.594	85.689

stms_r_h		10	75.3209	8.819543	63.821	89.232
stms_r_v		10	77.3038	5.180417	71.729	85.545
stms_2_h		16	75.85113	6.950891	63.71	86.531
stms_2_v		16	75.19469	6.418563	63.953	87.708
stmi_h		16	72.26969	7.251733	60.315	83.886

stmi_v		16	80.5035	7.357075	64.648	95.161
stmi_r_h		10	71.3825	7.855231	60.283	81.859
stmi_r_v		10	81.8075	4.502379	75.724	89.864
stmi_2_h		16	73.87781	6.570458	61.316	83.396
stmi_2_v		16	75.65225	5.880625	64.249	86.398

li_h		16	77.60931	7.8857	64.474	89.427
li_v		16	92.37406	9.637338	68.86	109.57
li_r_h		10	76.8273	8.888114	64.572	89.832
li_r_v		10	93.928	5.909164	86.215	107.157
li_2_h		16	79.28194	7.092198	65.813	89.8

li_2_v		16	86.85312	7.286878	71.534	99.846
si_h		16	68.33981	7.837527	55.194	82.12
si_v		16	101.1433	9.269969	82.037	121.687
si_r_h		10	66.8181	9.076546	54.997	82.97
si_r_v		10	102.6065	5.829229	95.998	114.252

si_2_h		16	70.84175	6.897604	57.012	81.485
si_2_v		16	96.85187	7.631786	80.391	109.656
pogl_h		16	69.52481	8.017319	55.912	83.068
pogl_v		16	109.0204	9.511256	92.038	128.776
pogl_r_h		10	68.2436	9.211873	55.618	83.918

pogl_r_v		10	110.8424	6.964054	102.907	125.473
pogl_2_h		16	72.95494	7.085642	60.053	83.564
pogl_2_v		16	107.7157	9.271551	91.667	127.228
gnl_h		16	63.42519	7.521244	50.422	76.042
gnl_v		16	124.3082	10.07099	105.796	145.802

gnl_r_h		10	62.0192	8.61141	49.9	76.99
gnl_r_v		10	126.0645	7.499997	117.08	138.454
gnl_2_h		16	67.04762	6.729621	55.912	77.261
gnl_2_v		16	121.5957	10.1101	104.999	143.422
mel_h		16	49.61231	6.836108	36.436	60.324

mel_v		16	130.176	10.57283	111.813	152.649
mel_r_h		10	47.5535	7.084066	35.423	59.017
mel_r_v		10	131.8517	8.401318	120.903	146.631
mel_2_h		16	53.47675	6.059378	43.723	63.069
mel_2_v		16	126.8879	10.37753	110.228	149.17

lit_li_h		16	-12.54006	1.924792	-15.097	-8.514999
lit_li_h_2		16	-12.90656	2.055839	-15.516	-9.574997
lia_li_h		16	-11.97006	1.900766	-14.506	-7.986
lia_li_h_2		16	-12.08119	1.994257	-14.83	-8.954002
li_in_h		16	17.86406	3.362294	14.411	26.819

li_in_h_2		16	18.33638	2.44967	14.851	22.931
mel_stmi_v		16	49.6725	5.682554	43.03799	63.219
mel_stmi_2v		16	51.23562	5.059583	45.688	62.772
stmi_s_v		16	4.638749	4.399326	-2.449005	9.574997
stmi_s_2_v		16	.4575632	1.620816	-2.264	4.443001

pogl_pog_h		16	13.78287	1.472777	11.172	16.732
pogl_pog_2_h		16	13.33587	1.729254	9.800003	16.014
mel_me_h		16	-.244875	2.947225	-5.378998	5.479
mel_me_2_h		16	-.0006869	2.188507	-4.444	4.142002

gnl_gn_h	16	9.831376	1.026359	8.428001	11.829
gnl_gn_2_h	16	9.62275	1.636023	7.022999	12.134
li_me1_h	16	27.997	5.458398	19.541	36.749
li_me1_2_h	16	25.80519	4.274951	16.66	30.881

-> surgery = 2

Variable	Obs	Mean	Std. Dev.	Min	Max
n_h	6	73.4615	4.318702	68.171	78.853
n_v	6	7.930833	.422604	7.321	8.465
n_r_h	5	72.4682	4.047982	68.137	78.461
n_r_v	5	7.7986	.4182047	7.386	8.431
n_2_h	6	73.39117	4.412746	68.105	78.657
n_2_v	6	7.902333	.4957507	7.217	8.529
lit_h	6	61.0325	9.032306	52.351	74.049
lit_v	6	80.663	4.694854	74.9	85.653
lit_r_h	5	58.4032	7.311096	52.383	69.572
lit_r_v	5	80.6886	5.018805	74.737	85.193
lit_2_h	6	64.67567	9.759899	55.425	76.761
lit_2_v	6	75.30083	5.034343	67.531	80.333
lia_h	6	61.62617	9.340789	52.579	75.193
lia_v	6	82.54733	5.097556	76.143	87.839
lia_r_h	5	58.9062	7.33532	52.873	70.095
lia_r_v	5	81.8108	5.115654	75.978	86.467
lia_2_h	6	65.39417	9.908911	55.948	77.84
lia_2_v	6	77.40217	5.422771	68.761	83.186
in_h	6	56.975	9.800311	48.168	72.121
in_v	6	92.53033	5.362298	86.011	98.623
in_r_h	5	53.7692	6.956881	48.2	64.441
in_r_v	5	92.173	5.861974	85.912	97.881
in_2_h	6	60.01483	10.69793	48.758	75.748
in_2_v	6	88.49217	6.418644	78.532	96.961
b_h	6	49.9545	9.820113	40.096	64.965
b_v	6	105.733	7.86297	93.627	114.014
b_r_h	5	47.0506	7.39914	40.26	58.265
b_r_v	5	104.7304	8.147978	93.79	113.897
b_2_h	6	55.14033	12.09652	43.895	72.382
b_2_v	6	98.38733	6.869733	86.848	104.208
pog_h	6	49.60067	10.78722	37.547	65.683
pog_v	6	114.2728	8.152946	104.509	124.569
pog_r_h	5	46.5994	8.386671	37.351	58.363
pog_r_v	5	111.8758	6.885453	104.802	121.706
pog_2_h	6	58.754	13.83947	43.196	78.135
pog_2_v	6	112.6748	7.026224	101.214	118.45
gn_h	6	47.335	11.06354	34.508	64.115
gn_v	6	122.9655	8.861683	110.717	131.955
gn_r_h	5	43.9526	8.55326	34.214	55.749
gn_r_v	5	120.9888	8.444582	110.717	130.596
gn_2_h	6	56.71233	14.04742	40.704	76.63
gn_2_v	6	117.6845	7.466108	106.586	126.266
me_h	6	43.65283	11.32955	30.652	61.141
me_v	6	124.763	8.812954	113.07	133.229
me_r_h	5	40.1356	8.46138	30.521	52.056
me_r_v	5	123.168	8.641737	113.232	133.113
me_2_h	6	53.05917	14.03149	36.789	73.624

me_2_v		6	119.2553	7.145311	108.529	127.837
stms_h		6	75.43317	10.279	65.749	87.97
stms_v		6	74.63383	4.413535	66.638	78.69

stms_r_h		5	73.1608	9.840714	65.915	88.264
stms_r_v		5	74.6914	4.734422	66.635	78.034
stms_2_h		6	75.39483	10.25113	64.292	88.983
stms_2_v		6	75.3195	2.881249	72.063	78.794
stmi_h		6	70.08467	10.82256	59.278	83.591

stmi_v		6	83.03683	5.298655	75.33	88.166
stmi_r_h		5	67.8014	9.972806	59.246	84.146
stmi_r_v		5	82.4898	5.592226	75.687	88.307
stmi_2_h		6	71.415	11.29544	59.901	84.179
stmi_2_v		6	76.10417	3.287632	72.226	80.732

li_h		6	73.43417	11.17827	61.337	88.689
li_v		6	95.88	5.859871	88.107	103.427
li_r_h		5	70.566	9.362471	61.337	85.486
li_r_v		5	96.1806	6.368325	88.337	103.297
li_2_h		6	76.71184	11.50361	65.522	89.702

li_2_v		6	87.6585	4.425316	82.686	94.099
si_h		6	63.54867	10.6451	52.122	79.212
si_v		6	101.7347	6.077322	92.127	109.015
si_r_h		5	60.4032	8.280757	51.795	72.219
si_r_v		5	100.2554	5.421439	92.355	106.344

si_2_h		6	69.27717	11.70387	57.921	85.911
si_2_v		6	95.049	4.098608	90.585	99.332
pogl_h		6	63.2385	11.61883	50.488	79.343
pogl_v		6	107.8132	6.936039	96.506	113.753
pogl_r_h		5	60.1678	9.450111	50.488	73.853

pogl_r_v		5	106.8296	7.023367	96.8	113.754
pogl_2_h		6	71.12417	14.10256	57.368	90.748
pogl_2_v		6	107.4395	6.596654	98.6	115.077
gnl_h		6	56.13617	11.17777	44.475	72.284
gnl_v		6	124.3702	8.494361	113.11	132.837

gnl_r_h		5	52.8998	8.79868	45.227	65.781
gnl_r_v		5	122.6602	7.965143	113.632	130.206
gnl_2_h		6	65.44917	13.78296	51.803	84.67
gnl_2_v		6	120.0308	5.989432	111.473	125.382
mel_h		6	41.20767	12.53911	26.666	58.167

mel_v		6	131.1132	8.916491	119.703	139.079
mel_r_h		5	37.9072	10.30245	27.417	52.089
mel_r_v		5	129.643	8.610948	120.324	137.478
mel_2_h		6	51.91983	16.21152	33.564	76.533
mel_2_v		6	125.2862	6.689485	115.355	131.6

lit_li_h		6	-12.40167	2.462936	-15.784	-8.986
lit_li_h_2		6	-12.03617	2.608944	-16.111	-9.142002
lia_li_h		6	-11.808	2.24744	-15.098	-8.758003
lia_li_h_2		6	-11.31767	2.582182	-15.359	-8.509003
li_in_h		6	16.45917	2.268443	13.137	20.228

li_in_h_2		6	16.697	4.391953	12.425	23.92101
mel_stmi_v		6	48.07633	4.254807	41.404	53.103
mel_stmi_2v		6	49.182	4.982225	42.03201	53.81999
stmi_s_v		6	8.403	3.461583	3.887001	12.645
stmi_s_2_v		6	.7846642	1.70415	-1.831001	3.402

pogl_pog_h		6	13.63783	1.38981	12.124	16.077
pogl_pog_2_h		6	12.37017	1.627429	9.509998	14.172
mel_me_h		6	-2.445167	4.438367	-8.039001	1.862999

me1_me_2_h	6	-1.139334	4.435374	-7.096001	3.461998
gn1_gn_h	6	8.801167	1.816034	6.765003	11.078
gn1_gn_2_h	6	8.736834	1.562749	6.993	11.099
li_me1_h	6	32.2265	3.836197	28.201	38.266
li_me1_2_h	6	24.792	6.402163	12.71101	32.014

. summ n_h - li_me1_2_h; Total group

Variable	Obs	Mean	Std. Dev.	Min	Max
n_h	22	72.45309	5.736	61.468	81.666
n_v	22	7.904682	.5488334	7.032	8.82
n_r_h	15	72.04427	5.488155	61.304	80.213
n_r_v	15	7.7356	.5149188	6.83	8.497
n_2_h	22	72.42745	5.739432	61.239	81.665
n_2_v	22	7.849091	.5713201	6.83	8.761
lit_h	22	63.96832	7.612033	52.351	77.208
lit_v	22	80.36332	6.191173	68.502	96.828
lit_r_h	15	62.36633	8.066349	52.383	76.227
lit_r_v	15	80.95193	4.166623	74.737	89.067
lit_2_h	22	65.91182	7.224684	54.974	76.761
lit_2_v	22	75.42368	5.527271	65.62	88.202
lia_h	22	64.54477	7.7133	52.579	77.502
lia_v	22	81.84509	6.098882	70.236	97.773
lia_r_h	15	62.927	8.189886	52.873	76.717
lia_r_v	15	82.20887	4.209888	75.978	90.145
lia_2_h	22	66.70805	7.281658	55.621	77.84
lia_2_v	22	77.63182	5.404198	68.761	90.785
in_h	22	58.98973	8.118615	45.39	73.003
in_v	22	92.7095	7.188158	78.862	112.541
in_r_h	15	56.97913	8.490734	45.684	73.624
in_r_v	15	93.51413	4.637268	85.912	104.332
in_2_h	22	60.69173	7.920896	46.14	75.748
in_2_v	22	89.65091	6.116155	78.532	105.786
b_h	22	53.65441	8.06832	40.096	66.565
b_v	22	104.474	9.269121	85.926	123.291
b_r_h	15	51.63547	8.497721	40.26	66.828
b_r_v	15	104.983	7.158332	93.79	117.829
b_2_h	22	57.18123	8.214063	43.895	72.382
b_2_v	22	98.8055	7.475466	84.476	114.018
pog_h	22	54.06705	8.708668	37.547	66.533
pog_v	22	113.5874	9.375542	98.509	138.252
pog_r_h	15	51.71447	8.975738	37.351	67.186
pog_r_v	15	112.7856	6.96612	103.786	126.218
pog_2_h	22	59.38314	9.067583	43.196	78.135
pog_2_v	22	111.1856	8.885731	97.025	135.039
gn_h	22	51.88686	8.765151	34.508	64.334
gn_v	22	121.2423	9.892282	102.56	144.885
gn_r_h	15	49.37327	9.055888	34.214	64.768
gn_r_v	15	121.3167	7.347501	110.717	133.458
gn_2_h	22	57.23055	9.037312	40.704	76.63
gn_2_v	22	117.5635	9.264156	100.653	141.451
me_h	22	48.16509	8.815496	30.652	61.141
me_v	22	123.0528	9.972626	103.831	146.809
me_r_h	15	45.58507	8.988679	30.521	61.337
me_r_v	15	123.2965	7.518064	113.232	136.107

me_2_h		22	53.36336	8.767168	36.789	73.624
me_2_v		22	119.1851	9.372361	101.795	143.449
stms_h		22	75.92577	8.505692	63.723	89.624
stms_v		22	75.52905	5.684471	65.594	85.689

stms_r_h		15	74.60087	8.876016	63.821	89.232
stms_r_v		15	76.433	5.028052	66.635	85.545
stms_2_h		22	75.72668	7.71844	63.71	88.983
stms_2_v		22	75.22873	5.604187	63.953	87.708
stmi_h		22	71.67377	8.151211	59.278	83.886

stmi_v		22	81.19441	6.832283	64.648	95.161
stmi_r_h		15	70.1888	8.43427	59.246	84.146
stmi_r_v		15	82.03493	4.698682	75.687	89.864
stmi_2_h		22	73.20614	7.904085	59.901	84.179
stmi_2_v		22	75.7755	5.22658	64.249	86.398

li_h		22	76.47064	8.819886	61.337	89.427
li_v		22	93.33023	8.779036	68.86	109.57
li_r_h		15	74.7402	9.228411	61.337	89.832
li_r_v		15	94.67887	5.936571	86.215	107.157
li_2_h		22	78.581	8.295087	65.522	89.8

li_2_v		22	87.07277	6.536441	71.534	99.846
si_h		22	67.03314	8.69636	52.122	82.12
si_v		22	101.3046	8.381328	82.037	121.687
si_r_h		15	64.6798	9.074717	51.795	82.97
si_r_v		15	101.8228	5.617655	92.355	114.252

si_2_h		22	70.41505	8.191861	57.012	85.911
si_2_v		22	96.36018	6.802796	80.391	109.656
pogl_h		22	67.81036	9.287955	50.488	83.068
pogl_v		22	108.6912	8.739247	92.038	128.776
pogl_r_h		15	65.55167	9.777309	50.488	83.918

pogl_r_v		15	109.5048	7.007488	96.8	125.473
pogl_2_h		22	72.45564	9.160296	57.368	90.748
pogl_2_v		22	107.6404	8.472187	91.667	127.228
gnl_h		22	61.43727	9.01081	44.475	76.042
gnl_v		22	124.3251	9.467135	105.796	145.802

gnl_r_h		15	58.9794	9.465298	45.227	76.99
gnl_r_v		15	124.9297	7.55293	113.632	138.454
gnl_2_h		22	66.61168	8.838004	51.803	84.67
gnl_2_v		22	121.1689	9.058705	104.999	143.422
mel_h		22	47.32014	9.246289	26.666	60.324

mel_v		22	130.4316	9.947777	111.813	152.649
mel_r_h		15	44.33807	9.205542	27.417	59.017
mel_r_v		15	131.1155	8.229278	120.324	146.631
mel_2_h		22	53.05214	9.450084	33.564	76.533
mel_2_v		22	126.451	9.386765	110.228	149.17

lit_li_h		22	-12.50232	2.023507	-15.784	-8.514999
lit_li_h_2		22	-12.66918	2.190193	-16.111	-9.142002
lia_li_h		22	-11.92586	1.946464	-15.098	-7.986
lia_li_h_2		22	-11.87296	2.132939	-15.359	-8.509003
li_in_h		22	17.48091	3.116142	13.137	26.819

li_in_h_2		22	17.88927	3.072048	12.425	23.92101
mel_stmi_v		22	49.23718	5.282521	41.404	63.219
mel_stmi_2v		22	50.67555	5.007169	42.03201	62.772
stmi_s_v		22	5.665363	4.429633	-2.449005	12.645
stmi_s_2_v		22	.5467725	1.609395	-2.264	4.443001

pogl_pog_h		22	13.74332	1.419016	11.172	16.732
pogl_pog_2_h		22	13.0725	1.720561	9.509998	16.014

me1_me_h	22	-.8449546	3.449728	-8.039001	5.479
me1_me_2_h	22	-.3112271	2.893866	-7.096001	4.142002
gn1_gn_h	22	9.550409	1.325974	6.765003	11.829

gn1_gn_2_h	22	9.381136	1.629845	6.993	12.134
li_me1_h	22	29.1505	5.338777	19.541	38.266
li_me1_2_h	22	25.52887	4.798542	12.71101	32.014

Data for Patient number 1

. list if patient == 1;

```

+-----+
7. | patient | surgery |   n_h |   n_v | n_r_h | n_r_v | n_2_h | n_2_v |
|      1 |         1 | 72.676 | 8.335 | 73.036 | 8.007 | 72.938 | 8.007 |
+-----+
| lit_h | lit_v | lit_r_h | lit_r_v | lit_2_h | lit_2_v | lia_h |
| 67.906 | 79.669 | 67.415 | 79.898 | 73.787 | 73.429 | 68.722 |
+-----+
| lia_v | lia_r_h | lia_r_v | lia_2_h | lia_2_v | in_h | in_v | in_r_h |
| 80.258 | 68.069 | 80.487 | 74.408 | 74.868 | 59.965 | 93.46 | 59.605 |
+-----+
| in_r_v | in_2_h | in_2_v |   b_h |   b_v | b_r_h | b_r_v | b_2_h |
| 93.656 | 66.892 | 88.298 | 56.958 | 98.655 | 56.239 | 101.924 | 64.441 |
+-----+
| b_2_v | pog_h |   pog_v | pog_r_h | pog_r_v | pog_2_h | pog_2_v |
| 95.978 | 55.423 | 110.942 | 55.259 | 111.204 | 64.997 | 104.507 |
+-----+
|   gn_h |   gn_v | gn_r_h | gn_r_v | gn_2_h |   gn_2_v | me_h |
| 52.743 | 118.295 | 53.037 | 118.328 | 62.644 | 114.083 | 49.965 |
+-----+
|   me_v | me_r_h | me_r_v | me_2_h | me_2_v | stms_h | stms_v |
| 120.126 | 49.507 | 120.747 | 59.18 | 115.781 | 80.422 | 71.304 |
+-----+
| stms_r_h | stms_r_v | stms_2_h | stms_2_v | stmi_h | stmi_v | stmi_r_h |
| 80.29 | 71.729 | 80.062 | 69.574 | 76.108 | 80.879 | 75.683 |
+-----+
| stmi_r_v | stmi_2_h | stmi_2_v | li_h | li_v | li_r_h | li_r_v |
| 81.207 | 79.212 | 74.017 | 78.428 | 93.231 | 78.199 | 93.983 |
+-----+
| li_2_h | li_2_v | si_h | si_v | si_r_h | si_r_v | si_2_h | si_2_v |
| 83.362 | 85.879 | 67.807 | 98.198 | 67.48 | 98.526 | 74.572 | 94.311 |
+-----+
| pog1_h | pog1_v | pog1_r_h | pog1_r_v | pog1_2_h | pog1_2_v | gn1_h |
| 68.069 | 103.296 | 68.755 | 103.917 | 76.598 | 106.109 | 61.631 |
+-----+
|   gn1_v | gn1_r_h | gn1_r_v | gn1_2_h | gn1_2_v | mel_h | mel_v |
| 121.988 | 61.991 | 123.776 | 70.683 | 118.525 | 46.893 | 127.51 |
+-----+
| mel_r_h | mel_r_v | mel_2_h | mel_2_v | lit_li_h | lit_li_~2 | lia_li_h |
| 46.436 | 129.641 | 56.991 | 123.656 | -10.522 | -9.574997 | -9.706001 |
+-----+
| lia_li_~2 | li_in_h | li_in_~2 | mel_s~v | mel_s~2v | stmi_s_v |
| -8.954002 | 18.463 | 16.47 | 46.631 | 49.639 | 9.574997 |
+-----+
| s~s_2_v | pog1~g_h | pog1_p.. | mel_me_h | mel_m~2_h | gn1_gn_h |
| 4.443001 | 12.646 | 11.601 | -3.071999 | -2.188999 | 8.888 |
+-----+
|           gn~n_2_h |           |           li_mel_h |           |           li_m~2_h |
|           8.038998 |           |           31.535 |           |           26.371 |
+-----+

```

Number of tests and computations per variable

```
. for var n_h n_v lit_h lit_v lia_h lia_v in_h in_v b_h b_v pog_h pog_v gn_h
> gn_v me_h me_v stms_h stms_v stmi_h stmi_v li_h li_v si_h si_v pogl_h pogl_v
> gn1_h gn1_v mel_h mel_v \ var n_r_h n_r_v lit_r_h lit_r_v lia_r_h lia_r_v
> in_r_h in_r_v b_r_h b_r_v pog_r_h pog_r_v gn_r_h gn_r_v me_r_h me_r_v stms_r_h
> stms_r_v stmi_r_h stmi_r_v li_r_h li_r_v si_r_h si_r_v pogl_r_h pogl_r_v gn1_r
> _h
> gn1_r_v mel_r_h mel_r_v \ var n_2_h n_2_v lit_2_h lit_2_v lia_2_h lia_2_v
> in_2_h in_2_v b_2_h b_2_v pog_2_h pog_2_v gn_2_h gn_2_v me_2_h me_2_v
> stms_2_h stms_2_v stmi_2_h stmi_2_v li_2_h li_2_v si_2_h si_2_v pogl_2_h
> pogl_2_v gn1_2_h gn1_2_v mel_2_h mel_2_v: ttest X=Y \ gen X_d2 = X - Z \
> ttest X_d2, by( surgery ) \ ttest X = Z if surgery == 1 \ ttest X = Z if
> surgery == 2 \ ttest X = Z;
```

```
-> ttest n_h=n_r_h
```

Paired t test Onset vs Repeat

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
n_h	15	72.01447	1.431154	5.542834	68.94495	75.08399
n_r_h	15	72.04427	1.417035	5.488155	69.00503	75.08351
diff	15	-.0298012	.0786128	.304466	-.1984088	.1388065

Ho: mean(n_h - n_r_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -0.3791	t = -0.3791	t = -0.3791
P < t = 0.3552	P > t = 0.7103	P > t = 0.6448

Coefficient of repeatability for n_h = 2*(Std. Dev. For diff)

= 2* 0.304

= .608

You will have to do similar calculation for rest of variables

```
-> gen n_h_d2 = n_h - n_2_h
```

-> `ttest n_h_d2, by(surgery)`

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	.0088754	.0697449	.2789797	-.1397824	.1575331
2	6	.0703316	.0996262	.2440334	-.1857657	.3264289
combined	22	.0256362	.0566314	.2656248	-.0921353	.1434076
diff		-.0614562	.1295717		-.331738	.2088256

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = -0.4743	t = -0.4743	t = -0.4743
P < t = 0.3202	P > t = 0.6404	P > t = 0.6798

-> `ttest n_h = n_2_h if surgery == 1`

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
n_h	16	72.07494	1.566964	6.267857	68.73503	75.41484
n_2_h	16	72.06606	1.563568	6.254273	68.7334	75.39873
diff	16	.0088754	.0697449	.2789797	-.1397824	.1575331

Ho: mean(n_h - n_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 0.1273	t = 0.1273	t = 0.1273
P < t = 0.5498	P > t = 0.9004	P > t = 0.4502

-> `ttest n_h = n_2_h if surgery == 2`

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
n_h	6	73.4615	1.763103	4.318702	68.9293	77.9937
n_2_h	6	73.39117	1.801496	4.412746	68.76027	78.02206
diff	6	.0703316	.0996262	.2440334	-.1857657	.3264289

Ho: mean(n_h - n_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 0.7060	t = 0.7060	t = 0.7060
P < t = 0.7441	P > t = 0.5117	P > t = 0.2559

-> `ttest n_h = n_2_h` **All Patients**

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
n_h	22	72.45309	1.222919	5.736	69.90989	74.99629
n_2_h	22	72.42745	1.223651	5.739432	69.88273	74.97218
diff	22	.0256362	.0566314	.2656248	-.0921353	.1434076

Ho: mean(n_h - n_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 0.4527	t = 0.4527	t = 0.4527
P < t = 0.6723	P > t = 0.6554	P > t = 0.3277

-> `ttest n_v=n_r_v`

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
n_v	15	7.8464	.1306829	.5061329	7.566113	8.126687
n_r_v	15	7.7356	.1329515	.5149188	7.450447	8.020752
diff	15	.1108	.0394701	.152867	.0261451	.1954549

Ho: mean(n_v - n_r_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 2.8072	t = 2.8072	t = 2.8072
P < t = 0.9930	P > t = 0.0140	P > t = 0.0070

-> `gen n_v_d2 = n_v - n_2_v`

-> `ttest n_v_d2, by(surgery)`

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	.0657499	.031137	.1245481	-.000617	.1321169
2	6	.0284998	.0630205	.154368	-.1334994	.1904991
combined	22	.0555908	.0278324	.1305456	-.0022899	.1134715
diff		.0372501	.0634933		-.0951945	.1696947

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = 0.5867	t = 0.5867	t = 0.5867
P < t = 0.7180	P > t = 0.5640	P > t = 0.2820

-> ttest n_v = n_2_v if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
n_v	16	7.894875	.1503741	.6014963	7.57436	8.21539
n_2_v	16	7.829125	.152784	.6111361	7.503474	8.154776
diff	16	.0657499	.031137	.1245481	-.000617	.1321169

Ho: mean(n_v - n_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 2.1116	t = 2.1116	t = 2.1116
P < t = 0.9740	P > t = 0.0519	P > t = 0.0260

-> ttest n_v = n_2_v if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
n_v	6	7.930833	.1725274	.422604	7.487338	8.374329
n_2_v	6	7.902333	.2023894	.4957507	7.382075	8.422592
diff	6	.0284998	.0630205	.154368	-.1334994	.1904991

Ho: mean(n_v - n_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 0.4522	t = 0.4522	t = 0.4522
P < t = 0.6650	P > t = 0.6700	P > t = 0.3350

-> ttest n_v = n_2_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
n_v	22	7.904682	.1170117	.5488334	7.661343	8.148021
n_2_v	22	7.849091	.1218059	.5713201	7.595782	8.1024
diff	22	.0555908	.0278324	.1305456	-.0022899	.1134715

Ho: mean(n_v - n_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 1.9973	t = 1.9973	t = 1.9973
P < t = 0.9705	P > t = 0.0589	P > t = 0.0295

-> ttest lit_h=lit_r_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
lit_h	15	62.36493	2.092454	8.104041	57.87707	66.8528
lit_r_h	15	62.36633	2.082722	8.066349	57.89934	66.83333
diff	15	-.0013995	.107573	.4166286	-.2321207	.2293217

Ho: mean(lit_h - lit_r_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -0.0130	t = -0.0130	t = -0.0130
P > t = 0.4949	P > t = 0.9898	P > t = 0.5051

-> gen lit_h_d2 = lit_h - lit_2_h

-> ttest lit_h_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	-1.306125	.58961	2.35844	-2.562849	-.0494011
2	6	-3.643166	.9419524	2.307303	-6.064532	-1.2218
combined	22	-1.9435	.5383254	2.52497	-3.063009	-.8239908
diff		2.337041	1.122947		-.0053854	4.679468

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = 2.0812	t = 2.0812	t = 2.0812
P > t = 0.9748	P > t = 0.0505	P > t = 0.0252

-> ttest lit_h = lit_2_h if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
lit_h	16	65.06925	1.753312	7.013246	61.33215	68.80635
lit_2_h	16	66.37538	1.59064	6.36256	62.98501	69.76574
diff	16	-1.306125	.58961	2.35844	-2.562849	-.0494011

Ho: mean(lit_h - lit_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -2.2152	t = -2.2152	t = -2.2152
P > t = 0.0213	P > t = 0.0426	P > t = 0.9787

-> ttest lit_h = lit_2_h if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
lit_h	6	61.0325	3.687423	9.032306	51.55368	70.51133
lit_2_h	6	64.67567	3.984462	9.759899	54.43328	74.91805
diff	6	-3.643166	.9419524	2.307303	-6.064532	-1.2218

Ho: mean(lit_h - lit_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -3.8677	t = -3.8677	t = -3.8677
P < t = 0.0059	P > t = 0.0118	P > t = 0.9941

-> ttest lit_h = lit_2_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
lit_h	22	63.96832	1.622891	7.612033	60.59333	67.34331
lit_2_h	22	65.91182	1.540308	7.224684	62.70857	69.11506
diff	22	-1.9435	.5383254	2.52497	-3.063009	-.8239908

Ho: mean(lit_h - lit_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -3.6103	t = -3.6103	t = -3.6103
P < t = 0.0008	P > t = 0.0016	P > t = 0.9992

-> ttest lit_v=lit_r_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
lit_v	15	80.84333	1.117387	4.327621	78.44678	83.23989
lit_r_v	15	80.95193	1.075817	4.166623	78.64453	83.25933
diff	15	-.1086009	.0811871	.3144363	-.2827299	.0655281

Ho: mean(lit_v - lit_r_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -1.3377	t = -1.3377	t = -1.3377
P < t = 0.1012	P > t = 0.2023	P > t = 0.8988

-> gen lit_v_d2 = lit_v - lit_2_v

-> ttest lit_v_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	4.781187	.513558	2.054232	3.686564	5.87581
2	6	5.362167	.6716921	1.645303	3.635528	7.088807
combined	22	4.939636	.411696	1.931025	4.083468	5.795805
diff		-.5809803	.9382856		-2.53821	1.376249

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = -0.6192	t = -0.6192	t = -0.6192
P < t = 0.2714	P > t = 0.5428	P > t = 0.7286

-> ttest lit_v = lit_2_v if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
lit_v	16	80.25094	1.700483	6.80193	76.62644	83.87543
lit_2_v	16	75.46975	1.464465	5.857859	72.34832	78.59118
diff	16	4.781187	.513558	2.054232	3.686564	5.87581

Ho: mean(lit_v - lit_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 9.3099	t = 9.3099	t = 9.3099
P < t = 1.0000	P > t = 0.0000	P > t = 0.0000

-> ttest lit_v = lit_2_v if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
lit_v	6	80.663	1.916666	4.694854	75.73605	85.58995
lit_2_v	6	75.30083	2.055262	5.034343	70.01761	80.58405
diff	6	5.362167	.6716921	1.645303	3.635528	7.088807

Ho: mean(lit_v - lit_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 7.9831	t = 7.9831	t = 7.9831
P < t = 0.9998	P > t = 0.0005	P > t = 0.0002

-> ttest lit_v = lit_2_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
lit_v	22	80.36332	1.319962	6.191173	77.61831	83.10833
lit_2_v	22	75.42368	1.178418	5.527271	72.97303	77.87434
diff	22	4.939636	.411696	1.931025	4.083468	5.795805

Ho: mean(lit_v - lit_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 11.9983	t = 11.9983	t = 11.9983
P < t = 1.0000	P > t = 0.0000	P > t = 0.0000

-> ttest lia_h=lia_r_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
lia_h	15	62.9164	2.118503	8.204927	58.37266	67.46014
lia_r_h	15	62.927	2.114619	8.189886	58.39159	67.46241
diff	15	-.0106003	.1133103	.438849	-.2536267	.2324262

Ho: mean(lia_h - lia_r_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -0.0936	t = -0.0936	t = -0.0936
P < t = 0.4634	P > t = 0.9268	P > t = 0.5366

-> gen lia_h_d2 = lia_h - lia_2_h

-> ttest lia_h_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	-1.561499	.5686818	2.274727	-2.773616	-.3493829
2	6	-3.768	.9245562	2.264691	-6.144647	-1.391352
combined	22	-2.163272	.5191253	2.434913	-3.242852	-1.083692
diff		2.2065	1.087744		-.062493	4.475494

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = 2.0285	t = 2.0285	t = 2.0285
P < t = 0.9720	P > t = 0.0560	P > t = 0.0280

-> ttest lia_h = lia_2_h if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
lia_h	16	65.63925	1.759341	7.037364	61.8893	69.3892
lia_2_h	16	67.20075	1.592036	6.368144	63.80741	70.59409
diff	16	-1.561499	.5686818	2.274727	-2.773616	-.3493829

Ho: mean(lia_h - lia_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -2.7458	t = -2.7458	t = -2.7458
P > t = 0.0075	P > t = 0.0150	P > t = 0.9925

-> ttest lia_h = lia_2_h if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
lia_h	6	61.62617	3.813361	9.340789	51.82361	71.42872
lia_2_h	6	65.39417	4.045296	9.908911	54.9954	75.79293
diff	6	-3.768	.9245562	2.264691	-6.144647	-1.391352

Ho: mean(lia_h - lia_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -4.0755	t = -4.0755	t = -4.0755
P > t = 0.0048	P > t = 0.0096	P > t = 0.9952

-> ttest lia_h = lia_2_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
lia_h	22	64.54477	1.644481	7.7133	61.12489	67.96466
lia_2_h	22	66.70805	1.552455	7.281658	63.47954	69.93655
diff	22	-2.163272	.5191253	2.434913	-3.242852	-1.083692

Ho: mean(lia_h - lia_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -4.1671	t = -4.1671	t = -4.1671
P > t = 0.0002	P > t = 0.0004	P > t = 0.9998

-> ttest lia_v=lia_r_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
lia_v	15	82.1536	1.140076	4.415496	79.70838	84.59882
lia_r_v	15	82.20887	1.086988	4.209888	79.87751	84.54023
diff	15	-.0552684	.1425552	.5521141	-.361019	.2504822

Ho: mean(lia_v - lia_r_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -0.3877	t = -0.3877	t = -0.3877
P > t = 0.3520	P > t = 0.7041	P > t = 0.6480

-> gen lia_v_d2 = lia_v - lia_2_v

-> ttest lia_v_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	3.863812	.5372675	2.14907	2.718653	5.008971
2	6	5.145164	.7053805	1.727822	3.331926	6.958403
combined	22	4.213272	.4447113	2.085881	3.288444	5.1381
diff		-1.281353	.9822636		-3.330319	.7676135

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = -1.3045	t = -1.3045	t = -1.3045
P > t = 0.1034	P > t = 0.2069	P > t = 0.8966

-> ttest lia_v = lia_2_v if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
lia_v	16	81.58175	1.642064	6.568256	78.08177	85.08173
lia_2_v	16	77.71794	1.393205	5.572822	74.74839	80.68748
diff	16	3.863812	.5372675	2.14907	2.718653	5.008971

Ho: mean(lia_v - lia_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 7.1916	t = 7.1916	t = 7.1916
P < t = 1.0000	P > t = 0.0000	P > t = 0.0000

-> ttest lia_v = lia_2_v if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
lia_v	6	82.54733	2.081069	5.097556	77.19777	87.89689
lia_2_v	6	77.40217	2.213837	5.422771	71.71132	83.09302
diff	6	5.145164	.7053805	1.727822	3.331926	6.958403

Ho: mean(lia_v - lia_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 7.2942	t = 7.2942	t = 7.2942
P < t = 0.9996	P > t = 0.0008	P > t = 0.0004

-> ttest lia_v = lia_2_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
lia_v	22	81.84509	1.300286	6.098882	79.141	84.54918
lia_2_v	22	77.63182	1.152179	5.404198	75.23573	80.02791
diff	22	4.213272	.4447113	2.085881	3.288444	5.1381

Ho: mean(lia_v - lia_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 9.4742	t = 9.4742	t = 9.4742
P < t = 1.0000	P > t = 0.0000	P > t = 0.0000

-> ttest in_h=in_r_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
in_h	15	57.00147	2.221032	8.602019	52.23783	61.76511
in_r_h	15	56.97913	2.192298	8.490734	52.27712	61.68114
diff	15	.0223335	.108969	.4220351	-.2113817	.2560487

Ho: mean(in_h - in_r_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 0.2050	t = 0.2050	t = 0.2050
P < t = 0.5797	P > t = 0.8406	P > t = 0.4203

-> gen in_h_d2 = in_h - in_2_h

-> ttest in_h_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	-1.200311	.8628401	3.45136	-3.039412	.6387887
2	6	-3.039833	1.470752	3.602591	-6.820521	.7408547
combined	22	-1.701999	.7477781	3.50739	-3.257089	-.1469095
diff		1.839522	1.670606		-1.645302	5.324345

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = 1.1011	t = 1.1011	t = 1.1011
P < t = 0.8580	P > t = 0.2839	P > t = 0.1420

-> ttest in_h = in_2_h if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
in_h	16	59.74525	1.904416	7.617663	55.68608	63.80442
in_2_h	16	60.94556	1.757773	7.031091	57.19896	64.69217
diff	16	-1.200311	.8628401	3.45136	-3.039412	.6387887

Ho: mean(in_h - in_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -1.3911	t = -1.3911	t = -1.3911
P < t = 0.0922	P > t = 0.1845	P > t = 0.9078

-> ttest in_h = in_2_h if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
in_h	6	56.975	4.00096	9.800311	46.69021	67.2598
in_2_h	6	60.01483	4.367412	10.69793	48.78804	71.24162
diff	6	-3.039833	1.470752	3.602591	-6.820521	.7408547

Ho: mean(in_h - in_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -2.0669	t = -2.0669	t = -2.0669
P < t = 0.0468	P > t = 0.0936	P > t = 0.9532

-> ttest in_h = in_2_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
in_h	22	58.98973	1.730894	8.118615	55.39014	62.58932
in_2_h	22	60.69173	1.688741	7.920896	57.1798	64.20366
diff	22	-1.701999	.7477781	3.50739	-3.257089	-.1469095

Ho: mean(in_h - in_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -2.2761	t = -2.2761	t = -2.2761
P > t = 0.0167	P > t = 0.0334	P > t = 0.9833

-> ttest in_v=in_r_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
in_v	15	93.4654	1.199356	4.645085	90.89304	96.03776
in_r_v	15	93.51413	1.197337	4.637268	90.9461	96.08217
diff	15	-.048732	.087866	.3403036	-.2371858	.1397218

Ho: mean(in_v - in_r_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -0.5546	t = -0.5546	t = -0.5546
P > t = 0.2940	P > t = 0.5879	P > t = 0.7060

-> gen in_v_d2 = in_v - in_2_v

-> ttest in_v_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	2.691249	.9285529	3.714211	.7120858	4.670413
2	6	4.038167	1.502988	3.681554	.1746134	7.901721
combined	22	3.058591	.7821274	3.668503	1.432068	4.685114
diff		-1.346918	1.774148		-5.047726	2.35389

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = -0.7592	t = -0.7592	t = -0.7592
P > t = 0.2283	P > t = 0.4566	P > t = 0.7717

-> ttest in_v = in_2_v if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
in_v	16	92.77669	1.980137	7.920547	88.55613	96.99725
in_2_v	16	90.08544	1.539051	6.156202	86.80503	93.36585
diff	16	2.691249	.9285529	3.714211	.7120858	4.670413

Ho: mean(in_v - in_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 2.8983	t = 2.8983	t = 2.8983
P < t = 0.9945	P > t = 0.0110	P > t = 0.0055

-> ttest in_v = in_2_v if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
in_v	6	92.53033	2.189149	5.362298	86.90295	98.15772
in_2_v	6	88.49217	2.6204	6.418644	81.75621	95.22812
diff	6	4.038167	1.502988	3.681554	.1746134	7.901721

Ho: mean(in_v - in_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 2.6868	t = 2.6868	t = 2.6868
P < t = 0.9783	P > t = 0.0435	P > t = 0.0217

-> ttest in_v = in_2_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
in_v	22	92.7095	1.53252	7.188158	89.52245	95.89655
in_2_v	22	89.65091	1.303969	6.116155	86.93916	92.36266
diff	22	3.058591	.7821274	3.668503	1.432068	4.685114

Ho: mean(in_v - in_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 3.9106	t = 3.9106	t = 3.9106
P < t = 0.9996	P > t = 0.0008	P > t = 0.0004

-> ttest b_h=b_r_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
b_h	15	51.65087	2.19946	8.518473	46.93349	56.36824
b_r_h	15	51.63547	2.194102	8.497721	46.92959	56.34135
diff	15	.0154007	.129862	.5029532	-.2631255	.2939269

Ho: mean(b_h - b_r_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 0.1186	t = 0.1186	t = 0.1186
P > t = 0.5464	P > t = 0.9073	P > t = 0.4536

-> gen b_h_d2 = b_h - b_2_h

-> ttest b_h_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	-2.904688	.6412184	2.564874	-4.271412	-1.537963
2	6	-5.185834	1.551405	3.800151	-9.173848	-1.19782
combined	22	-3.526819	.6473241	3.036219	-4.873003	-2.180634
diff		2.281147	1.399304		-.6377494	5.200043

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = 1.6302	t = 1.6302	t = 1.6302
P < t = 0.9406	P > t = 0.1187	P > t = 0.0594

-> ttest b_h = b_2_h if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
b_h	16	55.04188	1.793441	7.173765	51.21925	58.86451
b_2_h	16	57.94656	1.646835	6.587339	54.43642	61.45671
diff	16	-2.904688	.6412184	2.564874	-4.271412	-1.537963

Ho: mean(b_h - b_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -4.5300	t = -4.5300	t = -4.5300
P < t = 0.0002	P > t = 0.0004	P > t = 0.9998

-> ttest b_h = b_2_h if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
b_h	6	49.9545	4.009044	9.820113	39.64892	60.26008
b_2_h	6	55.14033	4.938383	12.09652	42.44582	67.83485
diff	6	-5.185834	1.551405	3.800151	-9.173848	-1.19782

Ho: mean(b_h - b_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -3.3427	t = -3.3427	t = -3.3427
P > t = 0.0102	P > t = 0.0205	P > t = 0.9898

-> ttest b_h = b_2_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
b_h	22	53.65441	1.720172	8.06832	50.07712	57.2317
b_2_h	22	57.18123	1.751244	8.214063	53.53932	60.82314
diff	22	-3.526819	.6473241	3.036219	-4.873003	-2.180634

Ho: mean(b_h - b_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -5.4483	t = -5.4483	t = -5.4483
P > t = 0.0000	P > t = 0.0000	P > t = 1.0000

-> ttest b_v=b_r_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
b_v	15	104.6263	1.91651	7.422612	100.5158	108.7368
b_r_v	15	104.983	1.848273	7.158332	101.0188	108.9472
diff	15	-.3566661	.2330252	.9025026	-.8564553	.1431232

Ho: mean(b_v - b_r_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -1.5306	t = -1.5306	t = -1.5306
P > t = 0.0741	P > t = 0.1481	P > t = 0.9259

-> gen b_v_d2 = b_v - b_2_v

-> ttest b_v_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	5.039501	.9206007	3.682403	3.077287	7.001715
2	6	7.345666	1.817693	4.452421	2.673137	12.0182
combined	22	5.668455	.8396675	3.93839	3.922271	7.414639
diff		-2.306165	1.861825		-6.189865	1.577535

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = -1.2387	t = -1.2387	t = -1.2387
P < t = 0.1149	P > t = 0.2298	P > t = 0.8851

-> ttest b_v = b_2_v if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
b_v	16	104.0018	2.484988	9.939951	98.70519	109.2984
b_2_v	16	98.96231	1.974974	7.899897	94.75275	103.1719
diff	16	5.039501	.9206007	3.682403	3.077287	7.001715

Ho: mean(b_v - b_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 5.4741	t = 5.4741	t = 5.4741
P < t = 1.0000	P > t = 0.0001	P > t = 0.0000

-> ttest b_v = b_2_v if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
b_v	6	105.733	3.210044	7.86297	97.48132	113.9847
b_2_v	6	98.38733	2.804557	6.869733	91.17799	105.5967
diff	6	7.345666	1.817693	4.452421	2.673137	12.0182

Ho: mean(b_v - b_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 4.0412	t = 4.0412	t = 4.0412
P < t = 0.9950	P > t = 0.0099	P > t = 0.0050

-> ttest b_v = b_2_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
b_v	22	104.474	1.976183	9.269121	100.3643	108.5837
b_2_v	22	98.8055	1.593775	7.475466	95.49106	102.1199
diff	22	5.668455	.8396675	3.93839	3.922271	7.414639

Ho: mean(b_v - b_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 6.7508	t = 6.7508	t = 6.7508
P < t = 1.0000	P > t = 0.0000	P > t = 0.0000

-> ttest pog_h=pog_r_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
pog_h	15	51.59613	2.323125	8.997424	46.61353	56.57874
pog_r_h	15	51.71447	2.317526	8.975738	46.74387	56.68506
diff	15	-.1183327	.1361835	.5274363	-.4104172	.1737518

Ho: mean(pog_h - pog_r_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -0.8689	t = -0.8689	t = -0.8689
P < t = 0.1998	P > t = 0.3995	P > t = 0.8002

-> gen pog_h_d2 = pog_h - pog_2_h

-> ttest pog_h_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	-3.877125	.7988451	3.19538	-5.579823	-2.174427
2	6	-9.153334	1.535577	3.761379	-13.10066	-5.206009
combined	22	-5.316091	.8646162	4.055409	-7.114159	-3.518024
diff		5.276209	1.601713		1.935095	8.617323

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = 3.2941	t = 3.2941	t = 3.2941
P < t = 0.9982	P > t = 0.0036	P > t = 0.0018

-> ttest pog_h = pog_2_h if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
pog_h	16	55.74194	1.87779	7.511161	51.73952	59.74435
pog_2_h	16	59.61906	1.7862	7.1448	55.81187	63.42626
diff	16	-3.877125	.7988451	3.19538	-5.579823	-2.174427

Ho: mean(pog_h - pog_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -4.8534	t = -4.8534	t = -4.8534
P < t = 0.0001	P > t = 0.0002	P > t = 0.9999

-> ttest pog_h = pog_2_h if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
pog_h	6	49.60067	4.403863	10.78722	38.28018	60.92116
pog_2_h	6	58.754	5.649939	13.83947	44.23037	73.27763
diff	6	-9.153334	1.535577	3.761379	-13.10066	-5.206009

Ho: mean(pog_h - pog_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -5.9608	t = -5.9608	t = -5.9608
P < t = 0.0010	P > t = 0.0019	P > t = 0.9990

-> ttest pog_h = pog_2_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
pog_h	22	54.06705	1.856694	8.708668	50.20584	57.92825
pog_2_h	22	59.38314	1.933215	9.067583	55.3628	63.40348
diff	22	-5.316091	.8646162	4.055409	-7.114159	-3.518024

Ho: mean(pog_h - pog_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -6.1485	t = -6.1485	t = -6.1485
P < t = 0.0000	P > t = 0.0000	P > t = 1.0000

-> ttest pog_v=pog_r_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
pog_v	15	112.8501	1.804774	6.98986	108.9792	116.7209
pog_r_v	15	112.7856	1.798645	6.96612	108.9279	116.6433
diff	15	.0644658	.1225621	.474681	-.1984037	.3273354

Ho: mean(pog_v - pog_r_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 0.5260	t = 0.5260	t = 0.5260
P < t = 0.6964	P > t = 0.6071	P > t = 0.3036

-> gen pog_v_d2 = pog_v - pog_2_v

-> ttest pog_v_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	2.703124	.495527	1.982108	1.646933	3.759315
2	6	1.598	1.999246	4.897131	-3.541225	6.737224
combined	22	2.401726	.6313767	2.961419	1.088707	3.714746
diff		1.105124	1.431509		-1.88095	4.091199

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = 0.7720	t = 0.7720	t = 0.7720
P < t = 0.7754	P > t = 0.4491	P > t = 0.2246

-> ttest pog_v = pog_2_v if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
pog_v	16	113.3303	2.50806	10.03224	107.9845	118.6761
pog_2_v	16	110.6272	2.409137	9.636546	105.4922	115.7621
diff	16	2.703124	.495527	1.982108	1.646933	3.759315

Ho: mean(pog_v - pog_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 5.4550	t = 5.4550	t = 5.4550
P < t = 1.0000	P > t = 0.0001	P > t = 0.0000

-> ttest pog_v = pog_2_v if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
pog_v	6	114.2728	3.328426	8.152946	105.7168	122.8288
pog_2_v	6	112.6748	2.868444	7.026224	105.3013	120.0484
diff	6	1.598	1.999246	4.897131	-3.541225	6.737224

Ho: mean(pog_v - pog_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 0.7993	t = 0.7993	t = 0.7993
P > t = 0.7698	P > t = 0.4604	P > t = 0.2302

-> ttest pog_v = pog_2_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
pog_v	22	113.5874	1.998872	9.375542	109.4305	117.7442
pog_2_v	22	111.1856	1.894444	8.885731	107.2459	115.1253
diff	22	2.401726	.6313767	2.961419	1.088707	3.714746

Ho: mean(pog_v - pog_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 3.8040	t = 3.8040	t = 3.8040
P < t = 0.9995	P > t = 0.0010	P > t = 0.0005

-> ttest gn_h=gn_r_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
gn_h	15	49.31767	2.314273	8.963141	44.35404	54.28129
gn_r_h	15	49.37327	2.33822	9.055888	44.35828	54.38825
diff	15	-.0556005	.1437832	.5568701	-.3639849	.2527839

Ho: mean(gn_h - gn_r_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -0.3867	t = -0.3867	t = -0.3867
P < t = 0.3524	P > t = 0.7048	P > t = 0.6476

-> gen gn_h_d2 = gn_h - gn_2_h

-> ttest gn_h_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	-3.831063	.8323458	3.329383	-5.605166	-2.05696
2	6	-9.377333	1.570875	3.847841	-13.41539	-5.339272
combined	22	-5.343682	.9003746	4.223131	-7.216114	-3.47125
diff		5.546271	1.659353		2.084921	9.00762

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = 3.3424	t = 3.3424	t = 3.3424
P < t = 0.9984	P > t = 0.0032	P > t = 0.0016

-> ttest gn_h = gn_2_h if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
gn_h	16	53.59381	1.860152	7.440608	49.62899	57.55863
gn_2_h	16	57.42488	1.739573	6.958293	53.71706	61.13269
diff	16	-3.831063	.8323458	3.329383	-5.605166	-2.05696

Ho: mean(gn_h - gn_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -4.6027	t = -4.6027	t = -4.6027
P < t = 0.0002	P > t = 0.0003	P > t = 0.9998

-> ttest gn_h = gn_2_h if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
gn_h	6	47.335	4.516673	11.06354	35.72452	58.94548
gn_2_h	6	56.71233	5.734835	14.04742	41.97047	71.45419
diff	6	-9.377333	1.570875	3.847841	-13.41539	-5.339272

Ho: mean(gn_h - gn_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -5.9695	t = -5.9695	t = -5.9695
P < t = 0.0009	P > t = 0.0019	P > t = 0.9991

-> ttest gn_h = gn_2_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
gn_h	22	51.88686	1.868737	8.765151	48.00061	55.77311
gn_2_h	22	57.23055	1.926761	9.037312	53.22363	61.23746
diff	22	-5.343682	.9003746	4.223131	-7.216114	-3.47125

Ho: mean(gn_h - gn_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -5.9350	t = -5.9350	t = -5.9350
P < t = 0.0000	P > t = 0.0000	P > t = 1.0000

-> ttest gn_v=gn_r_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
gn_v	15	121.2357	1.929356	7.472363	117.0976	125.3737
gn_r_v	15	121.3167	1.897117	7.347501	117.2478	125.3856
diff	15	-.0810644	.0760671	.2946066	-.244212	.0820833

Ho: mean(gn_v - gn_r_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -1.0657	t = -1.0657	t = -1.0657
P < t = 0.1523	P > t = 0.3046	P > t = 0.8477

-> gen gn_v_d2 = gn_v - gn_2_v

-> ttest gn_v_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	3.078	.4826417	1.930567	2.049273	4.106726
2	6	5.281002	.9590871	2.349274	2.81559	7.746414
combined	22	3.678818	.476003	2.232652	2.688916	4.668721
diff		-2.203002	.9781569		-4.243402	-.1626028

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = -2.2522	t = -2.2522	t = -2.2522
P < t = 0.0179	P > t = 0.0357	P > t = 0.9821

-> ttest gn_v = gn_2_v if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
gn_v	16	120.5961	2.612357	10.44943	115.028	126.1642
gn_2_v	16	117.5181	2.519492	10.07797	112.148	122.8883
diff	16	3.078	.4826417	1.930567	2.049273	4.106726

Ho: mean(gn_v - gn_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 6.3774	t = 6.3774	t = 6.3774
P < t = 1.0000	P > t = 0.0000	P > t = 0.0000

-> ttest gn_v = gn_2_v if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
gn_v	6	122.9655	3.617767	8.861683	113.6657	132.2653
gn_2_v	6	117.6845	3.048026	7.466108	109.8493	125.5197
diff	6	5.281002	.9590871	2.349274	2.81559	7.746414

Ho: mean(gn_v - gn_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 5.5063	t = 5.5063	t = 5.5063
P < t = 0.9986	P > t = 0.0027	P > t = 0.0014

-> ttest gn_v = gn_2_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
gn_v	22	121.2423	2.109042	9.892282	116.8563	125.6283
gn_2_v	22	117.5635	1.975125	9.264156	113.456	121.671
diff	22	3.678818	.476003	2.232652	2.688916	4.668721

Ho: mean(gn_v - gn_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 7.7286	t = 7.7286	t = 7.7286
P < t = 1.0000	P > t = 0.0000	P > t = 0.0000

-> ttest me_h=me_r_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
me_h	15	45.57773	2.31881	8.980714	40.60438	50.55109
me_r_h	15	45.58507	2.320867	8.988679	40.6073	50.56283
diff	15	-.0073329	.132867	.5145918	-.2923043	.2776386

Ho: mean(me_h - me_r_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -0.0552	t = -0.0552	t = -0.0552
P > t = 0.4784	P > t = 0.9568	P > t = 0.5216

-> gen me_h_d2 = me_h - me_2_h

-> ttest me_h_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	-3.620249	.8773191	3.509276	-5.490211	-1.750288
2	6	-9.406333	1.540326	3.773012	-13.36587	-5.4468
combined	22	-5.198272	.9327989	4.375215	-7.138134	-3.258411
diff		5.786084	1.712375		2.214133	9.358035

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = 3.3790	t = 3.3790	t = 3.3790
P < t = 0.9985	P > t = 0.0030	P > t = 0.0015

-> ttest me_h = me_2_h if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
me_h	16	49.85719	1.850906	7.403626	45.91207	53.8023
me_2_h	16	53.47744	1.618836	6.475345	50.02697	56.9279
diff	16	-3.620249	.8773191	3.509276	-5.490211	-1.750288

Ho: mean(me_h - me_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -4.1265	t = -4.1265	t = -4.1265
P < t = 0.0004	P > t = 0.0009	P > t = 0.9996

-> ttest me_h = me_2_h if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
me_h	6	43.65283	4.625268	11.32955	31.7632	55.54246
me_2_h	6	53.05917	5.72833	14.03149	38.33402	67.78431
diff	6	-9.406333	1.540326	3.773012	-13.36587	-5.4468

Ho: mean(me_h - me_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -6.1067	t = -6.1067	t = -6.1067
P < t = 0.0009	P > t = 0.0017	P > t = 0.9991

-> ttest me_h = me_2_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
me_h	22	48.16509	1.87947	8.815496	44.25652	52.07366
me_2_h	22	53.36336	1.869166	8.767168	49.47622	57.25051
diff	22	-5.198272	.9327989	4.375215	-7.138134	-3.258411

Ho: mean(me_h - me_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -5.5728	t = -5.5728	t = -5.5728
P < t = 0.0000	P > t = 0.0000	P > t = 1.0000

-> ttest me_v=me_r_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
me_v	15	123.1308	1.960081	7.59136	118.9268	127.3348
me_r_v	15	123.2965	1.941156	7.518064	119.1332	127.4599
diff	15	-.1657338	.0778119	.3013641	-.3326237	.0011561

Ho: mean(me_v - me_r_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -2.1299	t = -2.1299	t = -2.1299
P < t = 0.0257	P > t = 0.0514	P > t = 0.9743

-> gen me_v_d2 = me_v - me_2_v

-> ttest me_v_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	3.252625	.4816444	1.926578	2.226025	4.279226
2	6	5.507666	1.041065	2.550078	2.831524	8.183809
combined	22	3.867637	.4887922	2.292638	2.851138	4.884136
diff		-2.255041	1.005242		-4.351938	-.1581437

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = -2.2433	t = -2.2433	t = -2.2433
P < t = 0.0182	P > t = 0.0364	P > t = 0.9818

-> ttest me_v = me_2_v if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
me_v	16	122.4114	2.642637	10.57055	116.7788	128.0441
me_2_v	16	119.1588	2.573378	10.29351	113.6738	124.6438
diff	16	3.252625	.4816444	1.926578	2.226025	4.279226

Ho: mean(me_v - me_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 6.7532	t = 6.7532	t = 6.7532
P < t = 1.0000	P > t = 0.0000	P > t = 0.0000

-> ttest me_v = me_2_v if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
me_v	6	124.763	3.597874	8.812954	115.5144	134.0116
me_2_v	6	119.2553	2.917061	7.145311	111.7568	126.7539
diff	6	5.507666	1.041065	2.550078	2.831524	8.183809

Ho: mean(me_v - me_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 5.2904	t = 5.2904	t = 5.2904
P < t = 0.9984	P > t = 0.0032	P > t = 0.0016

-> ttest me_v = me_2_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
me_v	22	123.0528	2.126171	9.972626	118.6312	127.4744
me_2_v	22	119.1851	1.998194	9.372361	115.0297	123.3406
diff	22	3.867637	.4887922	2.292638	2.851138	4.884136

Ho: mean(me_v - me_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 7.9126	t = 7.9126	t = 7.9126
P < t = 1.0000	P > t = 0.0000	P > t = 0.0000

-> ttest stms_h=stms_r_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
stms_h	15	74.57033	2.264277	8.769507	69.71394	79.42672
stms_r_h	15	74.60087	2.291777	8.876016	69.68549	79.51624
diff	15	-.0305333	.1009959	.3911553	-.2471479	.1860812

Ho: mean(stms_h - stms_r_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -0.3023	t = -0.3023	t = -0.3023
P < t = 0.3834	P > t = 0.7669	P > t = 0.6166

-> gen stms_h_d2 = stms_h - stms_2_h

-> ttest stms_h_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	.2593746	.7173082	2.869233	-1.269532	1.788281
2	6	.0383339	.8341746	2.043302	-2.10598	2.182648
combined	22	.1990908	.5594061	2.623847	-.9642579	1.362439
diff		.2210407	1.286141		-2.461802	2.903883

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = 0.1719	t = 0.1719	t = 0.1719
P < t = 0.5674	P > t = 0.8653	P > t = 0.4326

-> ttest stms_h = stms_2_h if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
stms_h	16	76.1105	2.029975	8.119898	71.78371	80.43729
stms_2_h	16	75.85113	1.737723	6.950891	72.14726	79.55499
diff	16	.2593746	.7173082	2.869233	-1.269532	1.788281

Ho: mean(stms_h - stms_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 0.3616	t = 0.3616	t = 0.3616
P > t = 0.6387	P > t = 0.7227	P > t = 0.3613

-> ttest stms_h = stms_2_h if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
stms_h	6	75.43317	4.196386	10.279	64.64601	86.22032
stms_2_h	6	75.39483	4.185008	10.25113	64.63693	86.15274
diff	6	.0383339	.8341746	2.043302	-2.10598	2.182648

Ho: mean(stms_h - stms_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 0.0460	t = 0.0460	t = 0.0460
P > t = 0.5174	P > t = 0.9651	P > t = 0.4826

-> ttest stms_h = stms_2_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
stms_h	22	75.92577	1.81342	8.505692	72.15456	79.69699
stms_2_h	22	75.72668	1.645577	7.71844	72.30452	79.14885
diff	22	.1990908	.5594061	2.623847	-.9642579	1.362439

Ho: mean(stms_h - stms_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 0.3559	t = 0.3559	t = 0.3559
P > t = 0.6373	P > t = 0.7255	P > t = 0.3627

-> ttest stms_v=stms_r_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
stms_v	15	76.29073	1.308536	5.067938	73.4842	79.09726
stms_r_v	15	76.433	1.298237	5.028052	73.64856	79.21744
diff	15	-.1422653	.1050149	.4067211	-.3674999	.0829693

Ho: mean(stms_v - stms_r_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -1.3547	t = -1.3547	t = -1.3547
P > t = 0.0985	P > t = 0.1970	P > t = 0.9015

-> gen stms_v_d2 = stms_v - stms_2_v

-> ttest stms_v_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	.6700637	.6600747	2.640299	-.7368522	2.07698
2	6	-.6856664	1.030839	2.52503	-3.335523	1.96419
combined	22	.3003192	.5591949	2.622857	-.8625904	1.463229
diff		1.35573	1.25038		-1.252517	3.963977

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = 1.0843	t = 1.0843	t = 1.0843
P > t = 0.8544	P > t = 0.2911	P > t = 0.1456

-> ttest stms_v = stms_2_v if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
stms_v	16	75.86475	1.547268	6.189073	72.56683	79.16267
stms_2_v	16	75.19469	1.604641	6.418563	71.77448	78.6149
diff	16	.6700637	.6600747	2.640299	-.7368522	2.07698

Ho: mean(stms_v - stms_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 1.0151	t = 1.0151	t = 1.0151
P > t = 0.8369	P > t = 0.3261	P > t = 0.1631

-> ttest stms_v = stms_2_v if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
stms_v	6	74.63383	1.801818	4.413535	70.00211	79.26556
stms_2_v	6	75.3195	1.176265	2.881249	72.29582	78.34319
diff	6	-.6856664	1.030839	2.52503	-3.335523	1.96419

Ho: mean(stms_v - stms_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -0.6652	t = -0.6652	t = -0.6652
P > t = 0.2677	P > t = 0.5354	P > t = 0.7323

-> ttest stms_v = stms_2_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
stms_v	22	75.52905	1.211933	5.684471	73.00869	78.0494
stms_2_v	22	75.22873	1.194817	5.604187	72.74397	77.71348
diff	22	.3003192	.5591949	2.622857	-.8625904	1.463229

Ho: mean(stms_v - stms_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 0.5371	t = 0.5371	t = 0.5371
P > t = 0.7016	P > t = 0.5969	P > t = 0.2984

-> ttest stmi_h=stmi_r_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
stmi_h	15	70.08973	2.210213	8.560117	65.3493	74.83017
stmi_r_h	15	70.1888	2.177719	8.43427	65.51806	74.85954
diff	15	-.0990662	.1113466	.4312435	-.3378809	.1397485

Ho: mean(stmi_h - stmi_r_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -0.8897	t = -0.8897	t = -0.8897
P > t = 0.1943	P > t = 0.3887	P > t = 0.8057

-> gen stmi_h_d2 = stmi_h - stmi_2_h

-> ttest stmi_h_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	-1.608124	.6753307	2.701323	-3.047558	-.1686909
2	6	-1.330334	.974262	2.386445	-3.834754	1.174086
combined	22	-1.532363	.5470691	2.565982	-2.670056	-.3946707
diff		-.2777905	1.257171		-2.900204	2.344623

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = -0.2210	t = -0.2210	t = -0.2210
P < t = 0.4137	P > t = 0.8274	P > t = 0.5863

-> ttest stmi_h = stmi_2_h if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
stmi_h	16	72.26969	1.812933	7.251733	68.40551	76.13386
stmi_2_h	16	73.87781	1.642615	6.570458	70.37666	77.37896
diff	16	-1.608124	.6753307	2.701323	-3.047558	-.1686909

Ho: mean(stmi_h - stmi_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -2.3812	t = -2.3812	t = -2.3812
P < t = 0.0155	P > t = 0.0309	P > t = 0.9845

-> ttest stmi_h = stmi_2_h if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
stmi_h	6	70.08467	4.418292	10.82256	58.72708	81.44225
stmi_2_h	6	71.415	4.611343	11.29544	59.56116	83.26884
diff	6	-1.330334	.974262	2.386445	-3.834754	1.174086

Ho: mean(stmi_h - stmi_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -1.3655	t = -1.3655	t = -1.3655
P < t = 0.1152	P > t = 0.2303	P > t = 0.8848

-> ttest stmi_h = stmi_2_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
stmi_h	22	71.67377	1.737844	8.151211	68.05973	75.28782
stmi_2_h	22	73.20614	1.685157	7.904085	69.70166	76.71061
diff	22	-1.532363	.5470691	2.565982	-2.670056	-.3946707

Ho: mean(stmi_h - stmi_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -2.8010	t = -2.8010	t = -2.8010
P < t = 0.0054	P > t = 0.0107	P > t = 0.9946

-> ttest stmi_v=stmi_r_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
stmi_v	15	81.85933	1.202128	4.655822	79.28103	84.43764
stmi_r_v	15	82.03493	1.213194	4.698682	79.43289	84.63698
diff	15	-.1755987	.0829838	.3213949	-.3535812	.0023839

Ho: mean(stmi_v - stmi_r_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -2.1161	t = -2.1161	t = -2.1161
P < t = 0.0264	P > t = 0.0527	P > t = 0.9736

-> gen stmi_v_d2 = stmi_v - stmi_2_v

-> ttest stmi_v_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	4.85125	1.020398	4.081592	2.676323	7.026177
2	6	6.932669	1.690969	4.142012	2.585894	11.27944
combined	22	5.41891	.8760607	4.109089	3.597042	7.240778
diff		-2.08142	1.961184		-6.172379	2.009539

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = -1.0613	t = -1.0613	t = -1.0613
P < t = 0.1506	P > t = 0.3012	P > t = 0.8494

-> ttest stmi_v = stmi_2_v if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
stmi_v	16	80.5035	1.839269	7.357075	76.58319	84.42381
stmi_2_v	16	75.65225	1.470156	5.880625	72.51869	78.78581
diff	16	4.85125	1.020398	4.081592	2.676323	7.026177

Ho: mean(stmi_v - stmi_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 4.7543	t = 4.7543	t = 4.7543
P < t = 0.9999	P > t = 0.0003	P > t = 0.0001

-> ttest stmi_v = stmi_2_v if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
stmi_v	6	83.03683	2.163167	5.298655	77.47624	88.59743
stmi_2_v	6	76.10417	1.34217	3.287632	72.65401	79.55432
diff	6	6.932669	1.690969	4.142012	2.585894	11.27944

Ho: mean(stmi_v - stmi_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 4.0998	t = 4.0998	t = 4.0998
P < t = 0.9953	P > t = 0.0094	P > t = 0.0047

-> ttest stmi_v = stmi_2_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
stmi_v	22	81.19441	1.456648	6.832283	78.16514	84.22367
stmi_2_v	22	75.7755	1.114311	5.22658	73.45816	78.09284
diff	22	5.41891	.8760607	4.109089	3.597042	7.240778

Ho: mean(stmi_v - stmi_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 6.1855	t = 6.1855	t = 6.1855
P < t = 1.0000	P > t = 0.0000	P > t = 0.0000

-> ttest li_h=li_r_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
li_h	15	74.64187	2.390354	9.257802	69.51507	79.76867
li_r_h	15	74.7402	2.382766	9.228411	69.62968	79.85072
diff	15	-.0983317	.1057539	.4095831	-.3251513	.1284878

Ho: mean(li_h - li_r_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -0.9298	t = -0.9298	t = -0.9298
P > t = 0.1841	P > t = 0.3682	P > t = 0.8159

-> gen li_h_d2 = li_h - li_2_h

-> ttest li_h_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	-1.672625	.5159789	2.063915	-2.772408	-.5728417
2	6	-3.277667	1.198864	2.936605	-6.359445	-.1958896
combined	22	-2.110364	.5059299	2.373022	-3.162502	-1.058225
diff		1.605043	1.107342		-.704833	3.914919

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = 1.4495	t = 1.4495	t = 1.4495
P < t = 0.9186	P > t = 0.1627	P > t = 0.0814

-> ttest li_h = li_2_h if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
li_h	16	77.60931	1.971425	7.8857	73.40732	81.81131
li_2_h	16	79.28194	1.77305	7.092198	75.50277	83.0611
diff	16	-1.672625	.5159789	2.063915	-2.772408	-.5728417

Ho: mean(li_h - li_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -3.2417	t = -3.2417	t = -3.2417
P < t = 0.0027	P > t = 0.0055	P > t = 0.9973

```
-> ttest li_h = li_2_h if surgery == 2
```

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
li_h	6	73.43417	4.563508	11.17827	61.7033	85.16504
li_2_h	6	76.71184	4.696328	11.50361	64.63954	88.78413
diff	6	-3.277667	1.198864	2.936605	-6.359445	-.1958896

Ho: mean(li_h - li_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -2.7340	t = -2.7340	t = -2.7340
P < t = 0.0205	P > t = 0.0411	P > t = 0.9795

```
-> ttest li_h = li_2_h
```

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
li_h	22	76.47064	1.880406	8.819886	72.56012	80.38116
li_2_h	22	78.581	1.768518	8.295087	74.90317	82.25884
diff	22	-2.110364	.5059299	2.373022	-3.162502	-1.058225

Ho: mean(li_h - li_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -4.1713	t = -4.1713	t = -4.1713
P < t = 0.0002	P > t = 0.0004	P > t = 0.9998

```
-> ttest li_v=li_r_v
```

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
li_v	15	94.51307	1.509457	5.846102	91.2756	97.75053
li_r_v	15	94.67887	1.532816	5.936571	91.3913	97.96643
diff	15	-.165799	.1189759	.4607916	-.4209769	.0893789

Ho: mean(li_v - li_r_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -1.3936	t = -1.3936	t = -1.3936
P < t = 0.0926	P > t = 0.1852	P > t = 0.9074

```
-> gen li_v_d2 = li_v - li_2_v
```

-> ttest li_v_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	5.520938	1.293972	5.17589	2.762901	8.278975
2	6	8.2215	1.871696	4.584701	3.410152	13.03285
combined	22	6.257455	1.079892	5.065143	4.011697	8.503214
diff		-2.700562	2.410134		-7.728012	2.326888

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = -1.1205	t = -1.1205	t = -1.1205
P < t = 0.1379	P > t = 0.2758	P > t = 0.8621

-> ttest li_v = li_2_v if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
li_v	16	92.37406	2.409335	9.637338	87.23869	97.50944
li_2_v	16	86.85312	1.821719	7.286878	82.97022	90.73603
diff	16	5.520938	1.293972	5.17589	2.762901	8.278975

Ho: mean(li_v - li_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 4.2667	t = 4.2667	t = 4.2667
P < t = 0.9997	P > t = 0.0007	P > t = 0.0003

-> ttest li_v = li_2_v if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
li_v	6	95.88	2.392282	5.859871	89.73044	102.0296
li_2_v	6	87.6585	1.806628	4.425316	83.01441	92.30258
diff	6	8.2215	1.871696	4.584701	3.410152	13.03285

Ho: mean(li_v - li_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 4.3925	t = 4.3925	t = 4.3925
P < t = 0.9965	P > t = 0.0071	P > t = 0.0035

-> ttest li_v = li_2_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
li_v	22	93.33023	1.871697	8.779036	89.43782	97.22263
li_2_v	22	87.07277	1.393574	6.536441	84.17468	89.97087
diff	22	6.257455	1.079892	5.065143	4.011697	8.503214

Ho: mean(li_v - li_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 5.7945	t = 5.7945	t = 5.7945
P < t = 1.0000	P > t = 0.0000	P > t = 0.0000

-> ttest si_h=si_r_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
si_h	15	64.76667	2.31843	8.979241	59.79413	69.7392
si_r_h	15	64.6798	2.343082	9.074717	59.65439	69.70521
diff	15	.086867	.1216873	.4712928	-.1741262	.3478603

Ho: mean(si_h - si_r_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 0.7139	t = 0.7139	t = 0.7139
P < t = 0.7565	P > t = 0.4870	P > t = 0.2435

-> gen si_h_d2 = si_h - si_2_h

-> ttest si_h_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	-2.501938	.6418746	2.567498	-3.870061	-1.133815
2	6	-5.7285	.900762	2.206407	-8.043983	-3.413018
combined	22	-3.38191	.6041889	2.833897	-4.638389	-2.12543
diff		3.226562	1.188241		.7479343	5.70519

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = 2.7154	t = 2.7154	t = 2.7154
P < t = 0.9933	P > t = 0.0133	P > t = 0.0067

-> ttest si_h = si_2_h if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
si_h	16	68.33981	1.959382	7.837527	64.16349	72.51614
si_2_h	16	70.84175	1.724401	6.897604	67.16628	74.51722
diff	16	-2.501938	.6418746	2.567498	-3.870061	-1.133815

Ho: mean(si_h - si_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -3.8979	t = -3.8979	t = -3.8979
P > t = 0.0007	P > t = 0.0014	P > t = 0.9993

-> ttest si_h = si_2_h if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
si_h	6	63.54867	4.345842	10.6451	52.37732	74.72001
si_2_h	6	69.27717	4.778084	11.70387	56.99471	81.55962
diff	6	-5.7285	.900762	2.206407	-8.043983	-3.413018

Ho: mean(si_h - si_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -6.3596	t = -6.3596	t = -6.3596
P > t = 0.0007	P > t = 0.0014	P > t = 0.9993

-> ttest si_h = si_2_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
si_h	22	67.03314	1.85407	8.69636	63.17739	70.88889
si_2_h	22	70.41505	1.746511	8.191861	66.78298	74.04711
diff	22	-3.38191	.6041889	2.833897	-4.638389	-2.12543

Ho: mean(si_h - si_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -5.5974	t = -5.5974	t = -5.5974
P > t = 0.0000	P > t = 0.0000	P > t = 1.0000

-> ttest si_v=si_r_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
si_v	15	101.592	1.41871	5.494642	98.54917	104.6348
si_r_v	15	101.8228	1.450472	5.617655	98.71185	104.9338
diff	15	-.2308019	.209401	.8110065	-.6799223	.2183185

Ho: mean(si_v - si_r_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -1.1022	t = -1.1022	t = -1.1022
P > t = 0.1445	P > t = 0.2890	P > t = 0.8555

-> gen si_v_d2 = si_v - si_2_v

-> ttest si_v_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	4.291437	.8717606	3.487043	2.433323	6.149551
2	6	6.685668	2.504253	6.134142	.2482801	13.12306
combined	22	4.944409	.9252873	4.339982	3.020169	6.868649
diff		-2.394231	2.0605		-6.692359	1.903898

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = -1.1620	t = -1.1620	t = -1.1620
P > t = 0.1295	P > t = 0.2589	P > t = 0.8705

-> ttest si_v = si_2_v if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
si_v	16	101.1433	2.317492	9.269969	96.20369	106.0829
si_2_v	16	96.85187	1.907946	7.631786	92.78518	100.9186
diff	16	4.291437	.8717606	3.487043	2.433323	6.149551

Ho: mean(si_v - si_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 4.9227	t = 4.9227	t = 4.9227
P < t = 0.9999	P > t = 0.0002	P > t = 0.0001

-> ttest si_v = si_2_v if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
si_v	6	101.7347	2.481056	6.077322	95.35691	108.1124
si_2_v	6	95.049	1.67325	4.098608	90.74777	99.35023
diff	6	6.685668	2.504253	6.134142	.2482801	13.12306

Ho: mean(si_v - si_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 2.6697	t = 2.6697	t = 2.6697
P > t = 0.9778	P > t = 0.0444	P > t = 0.0222

-> ttest si_v = si_2_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
si_v	22	101.3046	1.786905	8.381328	97.58852	105.0207
si_2_v	22	96.36018	1.450361	6.802796	93.34399	99.37637
diff	22	4.944409	.9252873	4.339982	3.020169	6.868649

Ho: mean(si_v - si_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 5.3436	t = 5.3436	t = 5.3436
P < t = 1.0000	P > t = 0.0000	P > t = 0.0000

-> ttest pogl_h=pogl_r_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
pogl_h	15	65.4558	2.522163	9.768295	60.0463	70.8653
pogl_r_h	15	65.55167	2.52449	9.777309	60.13717	70.96616
diff	15	-.0958659	.1419743	.5498642	-.4003706	.2086388

Ho: mean(pogl_h - pogl_r_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -0.6752	t = -0.6752	t = -0.6752
P < t = 0.2553	P > t = 0.5105	P > t = 0.7447

-> gen pogl_h_d2 = pogl_h - pogl_2_h

-> ttest pog1_h_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	-3.430126	.7051682	2.820673	-4.933156	-1.927096
2	6	-7.885666	1.442102	3.532414	-11.59271	-4.178625
combined	22	-4.645273	.7621439	3.574772	-6.230238	-3.060308
diff		4.45554	1.443036		1.445419	7.465661

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = 3.0876	t = 3.0876	t = 3.0876
P < t = 0.9971	P > t = 0.0058	P > t = 0.0029

-> ttest pog1_h = pog1_2_h if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
pog1_h	16	69.52481	2.00433	8.017319	65.25268	73.79694
pog1_2_h	16	72.95494	1.771411	7.085642	69.17927	76.73061
diff	16	-3.430126	.7051682	2.820673	-4.933156	-1.927096

Ho: mean(pog1_h - pog1_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -4.8643	t = -4.8643	t = -4.8643
P < t = 0.0001	P > t = 0.0002	P > t = 0.9999

-> ttest pog1_h = pog1_2_h if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
pog1_h	6	63.2385	4.743369	11.61883	51.04528	75.43172
pog1_2_h	6	71.12417	5.757345	14.10256	56.32444	85.92389
diff	6	-7.885666	1.442102	3.532414	-11.59271	-4.178625

Ho: mean(pog1_h - pog1_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -5.4682	t = -5.4682	t = -5.4682
P < t = 0.0014	P > t = 0.0028	P > t = 0.9986

-> ttest pog1_h = pog1_2_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
pog1_h	22	67.81036	1.980199	9.287955	63.69231	71.92841
pog1_2_h	22	72.45564	1.952982	9.160296	68.39419	76.51708
diff	22	-4.645273	.7621439	3.574772	-6.230238	-3.060308

Ho: mean(pog1_h - pog1_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -6.0950	t = -6.0950	t = -6.0950
P < t = 0.0000	P > t = 0.0000	P > t = 1.0000

-> ttest pog1_v=pog1_r_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
pog1_v	15	109.0933	1.803717	6.985765	105.2247	112.9619
pog1_r_v	15	109.5048	1.809326	7.007488	105.6242	113.3854
diff	15	-.411466	.1626717	.6300249	-.7603621	-.0625698

Ho: mean(pog1_v - pog1_r_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -2.5294	t = -2.5294	t = -2.5294
P < t = 0.0120	P > t = 0.0241	P > t = 0.9880

-> gen pog1_v_d2 = pog1_v - pog1_2_v

-> ttest pog1_v_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	1.304751	.710293	2.841172	-.2092029	2.818705
2	6	.3736661	1.232402	3.018755	-2.794323	3.541656
combined	22	1.050819	.6073704	2.84882	-.2122771	2.313915
diff		.9310848	1.381851		-1.951406	3.813575

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = 0.6738	t = 0.6738	t = 0.6738
P < t = 0.7459	P > t = 0.5082	P > t = 0.2541

-> ttest pog1_v = pog1_2_v if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
pog1_v	16	109.0204	2.377814	9.511256	103.9522	114.0886
pog1_2_v	16	107.7157	2.317888	9.271551	102.7752	112.6561
diff	16	1.304751	.710293	2.841172	-.2092029	2.818705

Ho: mean(pog1_v - pog1_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 1.8369	t = 1.8369	t = 1.8369
P > t = 0.9569	P > t = 0.0861	P > t = 0.0431

-> ttest pog1_v = pog1_2_v if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
pog1_v	6	107.8132	2.831626	6.936039	100.5342	115.0921
pog1_2_v	6	107.4395	2.693073	6.596654	100.5167	114.3623
diff	6	.3736661	1.232402	3.018755	-2.794323	3.541656

Ho: mean(pog1_v - pog1_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 0.3032	t = 0.3032	t = 0.3032
P > t = 0.6130	P > t = 0.7739	P > t = 0.3870

-> ttest pog1_v = pog1_2_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
pog1_v	22	108.6912	1.863214	8.739247	104.8164	112.5659
pog1_2_v	22	107.6404	1.806276	8.472187	103.884	111.3967
diff	22	1.050819	.6073704	2.84882	-.2122771	2.313915

Ho: mean(pog1_v - pog1_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 1.7301	t = 1.7301	t = 1.7301
P > t = 0.9509	P > t = 0.0983	P > t = 0.0491

-> ttest gn1_h=gn1_r_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
gn1_h	15	59.00993	2.425472	9.393813	53.80781	64.21205
gn1_r_h	15	58.9794	2.443929	9.465298	53.73769	64.22111
diff	15	.0305331	.1389999	.5383443	-.2675921	.3286582

Ho: mean(gn1_h - gn1_r_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 0.2197	t = 0.2197	t = 0.2197
P < t = 0.5853	P > t = 0.8293	P > t = 0.4147

-> gen gn1_h_d2 = gn1_h - gn1_2_h

-> ttest gn1_h_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	-3.622437	.7503745	3.001498	-5.221822	-2.023052
2	6	-9.313	1.349086	3.304572	-12.78094	-5.845065
combined	22	-5.174409	.8464867	3.970374	-6.934774	-3.414043
diff		5.690563	1.474468		2.614877	8.76625

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = 3.8594	t = 3.8594	t = 3.8594
P < t = 0.9995	P > t = 0.0010	P > t = 0.0005

-> ttest gn1_h = gn1_2_h if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
gn1_h	16	63.42519	1.880311	7.521244	59.4174	67.43298
gn1_2_h	16	67.04762	1.682405	6.729621	63.46166	70.63359
diff	16	-3.622437	.7503745	3.001498	-5.221822	-2.023052

Ho: mean(gn1_h - gn1_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -4.8275	t = -4.8275	t = -4.8275
P < t = 0.0001	P > t = 0.0002	P > t = 0.9999

-> ttest gn1_h = gn1_2_h if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
gn1_h	6	56.13617	4.563305	11.17777	44.40582	67.86652
gn1_2_h	6	65.44917	5.626871	13.78296	50.98483	79.9135
diff	6	-9.313	1.349086	3.304572	-12.78094	-5.845065

Ho: mean(gn1_h - gn1_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -6.9032	t = -6.9032	t = -6.9032
P < t = 0.0005	P > t = 0.0010	P > t = 0.9995

-> ttest gn1_h = gn1_2_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
gn1_h	22	61.43727	1.921111	9.01081	57.4421	65.43244
gn1_2_h	22	66.61168	1.884269	8.838004	62.69313	70.53023
diff	22	-5.174409	.8464867	3.970374	-6.934774	-3.414043

Ho: mean(gn1_h - gn1_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -6.1128	t = -6.1128	t = -6.1128
P < t = 0.0000	P > t = 0.0000	P > t = 1.0000

-> ttest gn1_v=gn1_r_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
gn1_v	15	124.5745	1.946135	7.53735	120.4005	128.7486
gn1_r_v	15	124.9297	1.950158	7.55293	120.7471	129.1124
diff	15	-.3551987	.1653375	.6403494	-.7098123	-.000585

Ho: mean(gn1_v - gn1_r_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -2.1483	t = -2.1483	t = -2.1483
P < t = 0.0248	P > t = 0.0497	P > t = 0.9752

-> gen gn1_v_d2 = gn1_v - gn1_2_v

-> ttest gn1_v_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	2.7125	.6043216	2.417286	1.424419	4.000581
2	6	4.339335	1.424395	3.489041	.6778111	8.000859
combined	22	3.156182	.5886092	2.760822	1.932102	4.380262
diff		-1.626835	1.30451		-4.347996	1.094326

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = -1.2471	t = -1.2471	t = -1.2471
P < t = 0.1134	P > t = 0.2268	P > t = 0.8866

-> ttest gn1_v = gn1_2_v if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
gn1_v	16	124.3082	2.517747	10.07099	118.9417	129.6746
gn1_2_v	16	121.5957	2.527524	10.1101	116.2084	126.983
diff	16	2.7125	.6043216	2.417286	1.424419	4.000581

Ho: mean(gn1_v - gn1_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 4.4885	t = 4.4885	t = 4.4885
P < t = 0.9998	P > t = 0.0004	P > t = 0.0002

-> ttest gn1_v = gn1_2_v if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
gn1_v	6	124.3702	3.467808	8.494361	115.4559	133.2845
gn1_2_v	6	120.0308	2.445176	5.989432	113.7453	126.3164
diff	6	4.339335	1.424395	3.489041	.6778111	8.000859

Ho: mean(gn1_v - gn1_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 3.0464	t = 3.0464	t = 3.0464
P < t = 0.9857	P > t = 0.0285	P > t = 0.0143

-> ttest gn1_v = gn1_2_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
gn1_v	22	124.3251	2.0184	9.467135	120.1276	128.5226
gn1_2_v	22	121.1689	1.931322	9.058705	117.1525	125.1853
diff	22	3.156182	.5886092	2.760822	1.932102	4.380262

Ho: mean(gn1_v - gn1_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 5.3621	t = 5.3621	t = 5.3621
P < t = 1.0000	P > t = 0.0000	P > t = 0.0000

-> ttest mel_h=mel_r_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
mel_h	15	44.51707	2.415065	9.353505	39.33727	49.69687
mel_r_h	15	44.33807	2.376861	9.205542	39.24021	49.43593
diff	15	.1790001	.2185362	.8463869	-.2897134	.6477135

Ho: mean(mel_h - mel_r_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 0.8191	t = 0.8191	t = 0.8191
P < t = 0.7868	P > t = 0.4265	P > t = 0.2132

-> gen mel_h_d2 = mel_h - mel_2_h

-> ttest mel_h_d2, by(surgery)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	-3.864437	1.003621	4.014482	-6.003604	-1.725271
2	6	-10.71217	1.664678	4.077612	-14.99136	-6.432975
combined	22	-5.732	1.070555	5.021348	-7.95834	-3.505659
diff		6.847728	1.929387		2.823098	10.87236

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = 3.5492	t = 3.5492	t = 3.5492
P < t = 0.9990	P > t = 0.0020	P > t = 0.0010

-> ttest mel_h = mel_2_h if surgery == 1

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
mel_h	16	49.61231	1.709027	6.836108	45.96961	53.25502
mel_2_h	16	53.47675	1.514845	6.059378	50.24794	56.70556
diff	16	-3.864437	1.003621	4.014482	-6.003604	-1.725271

Ho: mean(mel_h - mel_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -3.8505	t = -3.8505	t = -3.8505
P < t = 0.0008	P > t = 0.0016	P > t = 0.9992

-> ttest mel_h = mel_2_h if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
mel_h	6	41.20767	5.11907	12.53911	28.04868	54.36666
mel_2_h	6	51.91983	6.618327	16.21152	34.90688	68.93278
diff	6	-10.71217	1.664678	4.077612	-14.99136	-6.432975

Ho: mean(mel_h - mel_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -6.4350	t = -6.4350	t = -6.4350
P < t = 0.0007	P > t = 0.0013	P > t = 0.9993

-> ttest mel_h = mel_2_h

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
mel_h	22	47.32014	1.971315	9.246289	43.22056	51.41971
mel_2_h	22	53.05214	2.014765	9.450084	48.8622	57.24207
diff	22	-5.732	1.070555	5.021348	-7.95834	-3.505659

Ho: mean(mel_h - mel_2_h) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -5.3542	t = -5.3542	t = -5.3542
P < t = 0.0000	P > t = 0.0000	P > t = 1.0000

```
-> ttest mel_v=mel_r_v
```

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
mel_v	15	130.7337	2.122061	8.218707	126.1823	135.285
mel_r_v	15	131.1155	2.124791	8.229278	126.5582	135.6727
diff	15	-.3817988	.1762196	.6824957	-.7597523	-.0038453

Ho: mean(mel_v - mel_r_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = -2.1666	t = -2.1666	t = -2.1666
P < t = 0.0240	P > t = 0.0480	P > t = 0.9760

```
-> gen mel_v_d2 = mel_v - mel_2_v
```

```
-> ttest mel_v_d2, by( surgery )
```

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
1	16	3.288126	.4888967	1.955587	2.246067	4.330185
2	6	5.826998	1.248	3.056964	2.618911	9.035085
combined	22	3.980546	.5349625	2.509196	2.86803	5.093061
diff		-2.538872	1.092107		-4.816967	-.2607775

Degrees of freedom: 20

Ho: mean(1) - mean(2) = diff = 0

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
t = -2.3247	t = -2.3247	t = -2.3247
P < t = 0.0154	P > t = 0.0307	P > t = 0.9846

```
-> ttest mel_v = mel_2_v if surgery == 1
```

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
mel_v	16	130.176	2.643208	10.57283	124.5421	135.8099
mel_2_v	16	126.8879	2.594383	10.37753	121.3581	132.4177
diff	16	3.288126	.4888967	1.955587	2.246067	4.330185

Ho: mean(mel_v - mel_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 6.7256	t = 6.7256	t = 6.7256
P < t = 1.0000	P > t = 0.0000	P > t = 0.0000

-> ttest mel_v = mel_2_v if surgery == 2

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
mel_v	6	131.1132	3.640142	8.916491	121.7559	140.4705
mel_2_v	6	125.2862	2.730971	6.689485	118.266	132.3064
diff	6	5.826998	1.248	3.056964	2.618911	9.035085

Ho: mean(mel_v - mel_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 4.6691	t = 4.6691	t = 4.6691
P < t = 0.9973	P > t = 0.0055	P > t = 0.0027

-> ttest mel_v = mel_2_v

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
mel_v	22	130.4316	2.120873	9.947777	126.021	134.8422
mel_2_v	22	126.451	2.001265	9.386765	122.2892	130.6129
diff	22	3.980546	.5349625	2.509196	2.86803	5.093061

Ho: mean(mel_v - mel_2_v) = mean(diff) = 0

Ha: mean(diff) < 0	Ha: mean(diff) != 0	Ha: mean(diff) > 0
t = 7.4408	t = 7.4408	t = 7.4408
P < t = 1.0000	P > t = 0.0000	P > t = 0.0000

**Correlation matrix for onset, post-op and
new variables(thickness, length, gap)**

*** Behind correlation coefficient denotes significance at 0.05 level of significance**

```
. pwcorr n_h n_v lit_h lit_v lia_h lia_v in_h in_v b_h b_v pog_h pog_v gn_h
> gn_v me_h me_v stms_h stms_v stmi_h stmi_v li_h li_v si_h si_v pogl_h pogl_v
> gn1_h gn1_v mel_h mel_v n_h_d2 - mel_v_d2 mel_stmi_v - li_mel_2_h, star(0.05)
> ;
```

	n_h	n_v	lit_h	lit_v	lia_h	lia_v	in_h
n_h	1.0000						
n_v	0.9403*	1.0000					
lit_h	0.7046*	0.7023*	1.0000				
lit_v	0.6884*	0.6960*	0.3356	1.0000			
lia_h	0.7028*	0.7014*	0.9996*	0.3281	1.0000		
lia_v	0.7348*	0.7314*	0.3951	0.9870*	0.3902	1.0000	
in_h	0.6296*	0.6054*	0.9387*	0.1367	0.9409*	0.2237	1.0000
in_v	0.6328*	0.6589*	0.3342	0.9679*	0.3295	0.9576*	0.0909
b_h	0.5569*	0.5588*	0.9563*	0.1142	0.9584*	0.1930	0.9673*
b_v	0.7506*	0.7632*	0.4148	0.9244*	0.4096	0.9379*	0.2730
pog_h	0.5166*	0.5314*	0.9330*	0.1087	0.9346*	0.1876	0.9483*
pog_v	0.7525*	0.7678*	0.4792*	0.9014*	0.4752*	0.9271*	0.3188
gn_h	0.4935*	0.5123*	0.9209*	0.0864	0.9231*	0.1653	0.9379*
gn_v	0.7994*	0.7896*	0.4734*	0.9224*	0.4714*	0.9572*	0.3253
me_h	0.4604*	0.4820*	0.9029*	0.0469	0.9067*	0.1257	0.9224*
me_v	0.8015*	0.7882*	0.4643*	0.9295*	0.4621*	0.9630*	0.3153
stms_h	0.8340*	0.7950*	0.9325*	0.5039*	0.9320*	0.5633*	0.8720*
stms_v	0.6778*	0.5971*	0.3464	0.8481*	0.3375	0.8561*	0.2230
stmi_h	0.6997*	0.7103*	0.9572*	0.3588	0.9582*	0.4267*	0.9097*
stmi_v	0.6532*	0.6036*	0.2575	0.9017*	0.2548	0.9040*	0.1082
li_h	0.6771*	0.6824*	0.9804*	0.3308	0.9812*	0.3987	0.9356*
li_v	0.6526*	0.6002*	0.1939	0.8828*	0.1879	0.8607*	0.0413
si_h	0.5636*	0.5752*	0.9461*	0.1454	0.9491*	0.2269	0.9412*
si_v	0.7309*	0.6831*	0.3833	0.9172*	0.3800	0.9296*	0.2172
pogl_h	0.5426*	0.5569*	0.9379*	0.1442	0.9400*	0.2228	0.9379*
pogl_v	0.7131*	0.6594*	0.4184	0.9117*	0.4126	0.9253*	0.2618
gn1_h	0.4785*	0.4851*	0.9200*	0.0688	0.9223*	0.1452	0.9282*
gn1_v	0.8071*	0.7810*	0.5098*	0.9374*	0.5070*	0.9651*	0.3561
mel_h	0.3211	0.2857	0.8279*	-0.0685	0.8322*	0.0009	0.8428*
mel_v	0.8230*	0.8002*	0.5177*	0.9369*	0.5148*	0.9661*	0.3688
n_h_d2	0.0102	-0.1402	-0.1766	0.0682	-0.1859	0.0445	-0.1541
n_v_d2	-0.1641	-0.0569	-0.1652	-0.0372	-0.1696	-0.0688	-0.1906
lit_h_d2	0.2288	0.2328	0.3154	0.0334	0.3049	0.0110	0.2806
lit_v_d2	0.1475	0.1423	0.0319	0.4813*	0.0289	0.4612*	-0.0516
lia_h_d2	0.2458	0.2595	0.3390	0.0527	0.3302	0.0288	0.2861
lia_v_d2	0.1991	0.1845	-0.0330	0.5033*	-0.0369	0.4851*	-0.1053
in_h_d2	0.1069	0.1450	0.1633	-0.2177	0.1549	-0.2349	0.2717
in_v_d2	0.1395	0.1084	-0.0540	0.4586*	-0.0498	0.4601*	-0.1841
b_h_d2	0.1011	0.1160	0.1009	-0.1440	0.0893	-0.1879	0.1264
b_v_d2	0.3573	0.3590	0.2740	0.4770*	0.2725	0.5167*	0.2508
pog_h_d2	-0.0371	-0.0533	0.0567	-0.2757	0.0453	-0.3270	0.0955
pog_v_d2	0.0877	0.1790	0.2693	0.1525	0.2702	0.1781	0.2573
gn_h_d2	-0.0437	-0.0476	0.0669	-0.2855	0.0563	-0.3352	0.1012
gn_v_d2	0.1091	0.1418	-0.0595	0.3230	-0.0550	0.3560	-0.0418
me_h_d2	0.0209	0.0297	0.1558	-0.2218	0.1463	-0.2686	0.1680
me_v_d2	0.0937	0.0983	-0.0788	0.3329	-0.0742	0.3616	-0.0752
stms_h_d2	0.6633*	0.5975*	0.2346	0.6372*	0.2240	0.5992*	0.1125
stms_v_d2	-0.1718	-0.2214	-0.0000	-0.0592	-0.0012	-0.0500	0.0390
stmi_h_d2	0.3354	0.3116	0.1510	0.0775	0.1513	0.0927	0.1569

stmi_v_d2	0.1062	0.0755	0.0413	0.3531	0.0450	0.3530	-0.0070
li_h_d2	0.2764	0.3029	0.3056	0.0364	0.3012	0.0545	0.2952
li_v_d2	0.1281	0.1063	-0.0122	0.4141	-0.0133	0.3960	-0.0506
si_h_d2	0.2021	0.2086	0.2794	-0.1009	0.2693	-0.1201	0.3040
si_v_d2	0.2481	0.2275	0.1859	0.3787	0.1936	0.4287*	0.1413
pogl_h_d2	0.0817	0.0945	0.1406	-0.1573	0.1286	-0.2011	0.1610
pogl_v_d2	-0.2102	-0.3038	-0.2044	0.0042	-0.2092	-0.0036	-0.1586
gn1_h_d2	-0.0326	-0.0362	0.1164	-0.2624	0.1051	-0.3077	0.1479
gn1_v_d2	0.0671	0.0352	0.0135	0.2522	0.0194	0.2771	0.0320
me1_h_d2	-0.1701	-0.2517	-0.0016	-0.3500	-0.0105	-0.4072	0.0300
me1_v_d2	0.1367	0.1018	-0.0277	0.3375	-0.0226	0.3623	-0.0277
me1_stmi_v	0.7050*	0.7263*	0.6419*	0.5981*	0.6399*	0.6501*	0.5546*
me1_stmi_2v	0.7625*	0.7772*	0.7249*	0.7517*	0.7233*	0.7939*	0.5932*
stmi_s_v	0.1377	0.1647	-0.0473	0.3025	-0.0402	0.2957	-0.1194
stmi_s_2_v	-0.1722	-0.1004	-0.2357	-0.1655	-0.2274	-0.1687	-0.2471
pogl_pog_h	0.3808	0.3838	0.4128	0.2763	0.4169	0.3070	0.3194
pogl_pog_2_h	0.0569	-0.0053	0.1821	-0.0951	0.1834	-0.0997	0.1541
me1_me_h	-0.3158	-0.4659*	-0.0883	-0.3036	-0.0864	-0.3188	-0.0981
me1_me_2_h	-0.0497	-0.0738	0.1331	-0.0899	0.1366	-0.0795	0.0850
gn1_gn_h	-0.0106	-0.0896	0.1645	-0.1036	0.1656	-0.1060	0.1074
gn1_gn_2_h	-0.0424	-0.1080	0.0236	-0.1849	0.0246	-0.2053	-0.0109
li_me1_h	0.5624*	0.6325*	0.1857	0.6651*	0.1796	0.6571*	0.0861
li_me1_2_h	0.3111	0.2906	0.0538	0.3557	0.0398	0.2780	-0.0188

	in_v	b_h	b_v	pog_h	pog_v	gn_h	gn_v
in_v	1.0000						
b_h	0.1152	1.0000					
b_v	0.8909*	0.2142	1.0000				
pog_h	0.1079	0.9904*	0.2156	1.0000			
pog_v	0.8907*	0.3002	0.9464*	0.3044	1.0000		
gn_h	0.0899	0.9844*	0.2006	0.9979*	0.2955	1.0000	
gn_v	0.9047*	0.2812	0.9540*	0.2740	0.9570*	0.2581	1.0000
me_h	0.0570	0.9747*	0.1643	0.9864*	0.2709	0.9935*	0.2263
me_v	0.9099*	0.2692	0.9523*	0.2602	0.9472*	0.2418	0.9986*
stms_h	0.4679*	0.8516*	0.5515*	0.8178*	0.5948*	0.7959*	0.6052*
stms_v	0.8042*	0.1965	0.7424*	0.1833	0.7186*	0.1523	0.7824*
stmi_h	0.3550	0.9338*	0.4228*	0.9157*	0.4805*	0.9024*	0.4756*
stmi_v	0.8670*	0.0435	0.8749*	0.0189	0.8646*	-0.0023	0.8810*
li_h	0.3309	0.9628*	0.4084	0.9506*	0.4663*	0.9420*	0.4660*
li_v	0.8254*	-0.0355	0.8499*	-0.0666	0.8039*	-0.0899	0.8090*
si_h	0.1601	0.9813*	0.2473	0.9801*	0.3227	0.9772*	0.3153
si_v	0.8998*	0.1701	0.9125*	0.1449	0.9228*	0.1266	0.9403*
pogl_h	0.1552	0.9837*	0.2469	0.9896*	0.3220	0.9877*	0.2984
pogl_v	0.8906*	0.2374	0.8947*	0.2244	0.9273*	0.2088	0.9061*
gn1_h	0.0847	0.9829*	0.1703	0.9888*	0.2609	0.9893*	0.2214
gn1_v	0.9179*	0.3221	0.9309*	0.3086	0.9403*	0.2896	0.9750*
me1_h	-0.0388	0.9073*	0.0310	0.9130*	0.1503	0.9202*	0.0717
me1_v	0.9135*	0.3312	0.9343*	0.3191	0.9325*	0.3000	0.9776*
n_h_d2	-0.0003	-0.2384	0.0585	-0.2695	0.0327	-0.2877	0.0036
n_v_d2	-0.0192	-0.1290	-0.1319	-0.1418	-0.1014	-0.1587	-0.1111
lit_h_d2	-0.0113	0.3309	0.0656	0.3815	0.1563	0.4029	0.0445
lit_v_d2	0.4335*	-0.0956	0.3630	-0.1405	0.4215	-0.1579	0.3941
lia_h_d2	0.0204	0.3392	0.0897	0.3862	0.1760	0.4099	0.0716
lia_v_d2	0.4526*	-0.1861	0.4283*	-0.2404	0.4473*	-0.2612	0.4369*
in_h_d2	-0.3293	0.2433	-0.1109	0.3032	-0.1202	0.3208	-0.2168
in_v_d2	0.5256*	-0.2098	0.4091	-0.2766	0.4252*	-0.2891	0.4716*
b_h_d2	-0.2174	0.1397	-0.0949	0.1855	-0.0802	0.2037	-0.1596
b_v_d2	0.4583*	0.1812	0.6238*	0.1724	0.6065*	0.1576	0.5618*
pog_h_d2	-0.3299	0.1165	-0.2489	0.1425	-0.2671	0.1539	-0.3222
pog_v_d2	0.1820	0.2808	0.2044	0.2633	0.3190	0.2512	0.1432
gn_h_d2	-0.3287	0.1317	-0.2471	0.1614	-0.2648	0.1755	-0.3217
gn_v_d2	0.3019	-0.1373	0.3646	-0.1510	0.3829	-0.1555	0.3853
me_h_d2	-0.2584	0.2054	-0.1701	0.2277	-0.1717	0.2456	-0.2345
me_v_d2	0.3169	-0.1708	0.3459	-0.1916	0.3521	-0.1986	0.3718
stms_h_d2	0.5944*	0.0952	0.5730*	0.0596	0.5202*	0.0300	0.5177*
stms_v_d2	-0.0624	0.0745	-0.2064	0.0621	-0.1691	0.0441	-0.1319
stmi_h_d2	0.0685	0.1870	0.1310	0.1979	0.1440	0.2121	0.1629

stmi_v_d2	0.3404	-0.0623	0.3924	-0.0878	0.3996	-0.0911	0.3345
li_h_d2	0.0167	0.3411	0.0682	0.3854	0.1502	0.4007	0.1303
li_v_d2	0.3645	-0.1180	0.4439*	-0.1364	0.4101	-0.1453	0.3351
si_h_d2	-0.1527	0.3296	-0.0375	0.3680	-0.0393	0.3804	-0.0846
si_v_d2	0.3909	0.0896	0.4301*	0.0733	0.5477*	0.0769	0.4898*
pogl_h_d2	-0.2141	0.1929	-0.1148	0.2333	-0.1431	0.2431	-0.1870
pogl_v_d2	-0.0373	-0.1975	0.0637	-0.1850	0.1371	-0.1756	-0.0157
gn1_h_d2	-0.3093	0.1869	-0.2173	0.2191	-0.2254	0.2299	-0.2915
gn1_v_d2	0.2271	-0.0633	0.2808	-0.0881	0.2913	-0.0925	0.2780
me1_h_d2	-0.3962	0.0491	-0.3483	0.0701	-0.4077	0.0743	-0.4264*
me1_v_d2	0.3138	-0.1312	0.3505	-0.1563	0.3482	-0.1615	0.3720
me1_stmi_v	0.5989*	0.5675*	0.6279*	0.5766*	0.6377*	0.5679*	0.7015*
me1_stmi_2v	0.7540*	0.6134*	0.8088*	0.6145*	0.8262*	0.6053*	0.8281*
stmi_s_v	0.3053	-0.1851	0.3968	-0.2062	0.4114	-0.1990	0.3548
stmi_s_2_v	-0.1307	-0.2291	-0.2461	-0.2421	-0.1636	-0.2434	-0.0925
pogl_pog_h	0.3538	0.3609	0.2926	0.3403	0.2393	0.3407	0.2717
pogl_pog_2_h	-0.0410	0.1715	-0.1068	0.1318	-0.1350	0.1385	-0.1470
me1_me_h	-0.2497	-0.0589	-0.3368	-0.0735	-0.2894	-0.0725	-0.3861
me1_me_2_h	-0.0008	0.1551	-0.0543	0.1351	0.1030	0.1560	-0.0749
gn1_gn_h	-0.0189	0.1718	-0.1691	0.1227	-0.1805	0.1122	-0.2016
gn1_gn_2_h	-0.1135	0.0258	-0.2484	-0.0156	-0.2839	-0.0141	-0.2873
li_me1_h	0.6139*	0.0192	0.6211*	-0.0109	0.5099*	-0.0374	0.6457*
li_me1_2_h	0.2602	-0.0960	0.2928	-0.1294	0.0664	-0.1620	0.2077
	me_h	me_v	stms_h	stms_v	stmi_h	stmi_v	li_h
me_h	1.0000						
me_v	0.2069	1.0000					
stms_h	0.7742*	0.6022*	1.0000				
stms_v	0.0971	0.8004*	0.4900*	1.0000			
stmi_h	0.8905*	0.4686*	0.9476*	0.3491	1.0000		
stmi_v	-0.0235	0.8834*	0.4787*	0.7644*	0.2728	1.0000	
li_h	0.9271*	0.4560*	0.9186*	0.3456	0.9785*	0.2221	1.0000
li_v	-0.1113	0.8141*	0.4430*	0.7259*	0.2104	0.9602*	0.1486
si_h	0.9636*	0.3042	0.8301*	0.1977	0.9332*	0.0249	0.9706*
si_v	0.0985	0.9393*	0.5297*	0.7998*	0.3501	0.9410*	0.3514
pogl_h	0.9745*	0.2868	0.8198*	0.2172	0.9263*	0.0243	0.9629*
pogl_v	0.1813	0.9038*	0.5443*	0.8633*	0.3958	0.8988*	0.3984
gn1_h	0.9817*	0.2082	0.7824*	0.1626	0.8950*	-0.0315	0.9384*
gn1_v	0.2532	0.9753*	0.6359*	0.8580*	0.5002*	0.8877*	0.5027*
me1_h	0.9281*	0.0554	0.6819*	0.0182	0.7809*	-0.0873	0.8264*
me1_v	0.2612	0.9787*	0.6453*	0.8530*	0.5189*	0.8661*	0.5195*
n_h_d2	-0.2888	0.0106	-0.0749	0.2019	-0.2168	0.3066	-0.2662
n_v_d2	-0.1536	-0.1114	-0.1606	0.0022	-0.1118	0.0048	-0.1785
lit_h_d2	0.4049	0.0242	0.2023	0.0618	0.2318	-0.1236	0.3250
lit_v_d2	-0.1475	0.3947	0.1967	0.3343	0.0610	0.6108*	0.0108
lia_h_d2	0.4169	0.0499	0.2218	0.0449	0.2498	-0.1015	0.3464
lia_v_d2	-0.2581	0.4384*	0.1633	0.3717	-0.0122	0.6813*	-0.0759
in_h_d2	0.3178	-0.2290	0.0922	-0.1693	0.1423	-0.3379	0.1872
in_v_d2	-0.2807	0.4716*	0.0456	0.3766	-0.0979	0.6462*	-0.1049
b_h_d2	0.2034	-0.1742	-0.0046	-0.0686	0.0121	-0.2806	0.0955
b_v_d2	0.1422	0.5554*	0.4053	0.3086	0.3351	0.6361*	0.2748
pog_h_d2	0.1485	-0.3238	-0.1086	-0.0552	-0.0800	-0.4133	0.0256
pog_v_d2	0.2509	0.1313	0.2951	0.0988	0.2853	0.3118	0.2222
gn_h_d2	0.1733	-0.3248	-0.1051	-0.0827	-0.0642	-0.4295*	0.0438
gn_v_d2	-0.1475	0.3770	0.0901	0.2116	0.0023	0.5564*	-0.0687
me_h_d2	0.2592	-0.2408	-0.0292	-0.0738	0.0338	-0.3743	0.1362
me_v_d2	-0.1917	0.3689	0.0797	0.2418	-0.0221	0.5615*	-0.0940
stms_h_d2	-0.0080	0.5301*	0.4404*	0.7053*	0.2705	0.5985*	0.2236
stms_v_d2	0.0470	-0.1113	0.0490	0.2611	0.0522	0.0455	0.0029
stmi_h_d2	0.2499	0.1509	0.2311	0.1172	0.2522	0.0427	0.2290
stmi_v_d2	-0.0606	0.3235	0.2241	0.1308	0.0968	0.6456*	0.0098
li_h_d2	0.4045	0.1157	0.2111	0.0974	0.2765	-0.1306	0.3491
li_v_d2	-0.1263	0.3272	0.2136	0.1894	0.0705	0.6577*	-0.0282
si_h_d2	0.3682	-0.0921	0.1150	0.0661	0.1748	-0.3105	0.2788
si_v_d2	0.0933	0.4712*	0.2867	0.1806	0.1816	0.6043*	0.1619
pogl_h_d2	0.2348	-0.1888	-0.0057	0.0125	0.0471	-0.3440	0.1334
pogl_v_d2	-0.1564	-0.0289	-0.1726	0.0293	-0.2806	0.2400	-0.2620

gnl_h_d2		0.2287	-0.2944	-0.0564	-0.0789	-0.0056	-0.4049	0.0930
gnl_v_d2		-0.0820	0.2708	0.1588	0.1708	0.0235	0.5368*	-0.0190
mel_h_d2		0.0673	-0.4169	-0.1381	-0.1399	-0.1524	-0.4141	-0.0629
mel_v_d2		-0.1546	0.3671	0.1430	0.2363	0.0178	0.5776*	-0.0388
mel_stmi_v		0.5223*	0.7004*	0.5960*	0.6178*	0.6243*	0.3377	0.6911*
mel_stmi_2v		0.5787*	0.8205*	0.7411*	0.6407*	0.7291*	0.5966*	0.7566*
stmi_s_v		-0.1609	0.3353	0.1095	-0.1043	-0.0271	0.5615*	-0.1010
stmi_s_2_v		-0.2115	-0.0844	-0.1909	-0.1957	-0.2366	-0.0285	-0.2983
pogl_pog_h		0.3244	0.2803	0.3469	0.2965	0.4434*	0.0434	0.4685*
pogl_pog_2_h		0.1296	-0.1397	0.0420	0.0885	0.0793	-0.2236	0.1696
mel_me_h		-0.0677	-0.3802	-0.1507	-0.1993	-0.1826	-0.1738	-0.1542
mel_me_2_h		0.1943	-0.0939	0.0158	-0.1065	0.0980	-0.0544	0.1313
gnl_gn_h		0.1039	-0.1836	0.0555	0.0982	0.1164	-0.1988	0.1504
gnl_gn_2_h		-0.0235	-0.2737	-0.0898	0.0577	-0.0580	-0.2885	0.0093
li_mel_h		-0.0758	0.6574*	0.3365	0.5394*	0.2640	0.5180*	0.2209
li_mel_2_h		-0.2140	0.2380	0.1255	0.4056	-0.0025	0.2076	0.0072

		li_v	si_h	si_v	pogl_h	pogl_v	gnl_h	gnl_v
li_v		1.0000						
si_h		-0.0626	1.0000					
si_v		0.8884*	0.1749	1.0000				
pogl_h		-0.0570	0.9926*	0.1625	1.0000			
pogl_v		0.8536*	0.2332	0.9556*	0.2489	1.0000		
gnl_h		-0.1109	0.9793*	0.1097	0.9922*	0.2071	1.0000	
gnl_v		0.8182*	0.3441	0.9578*	0.3372	0.9516*	0.2705	1.0000
mel_h		-0.1649	0.8842*	0.0238	0.9063*	0.1282	0.9444*	0.1358
mel_v		0.7987*	0.3643	0.9376*	0.3531	0.9286*	0.2784	0.9958*
n_h_d2		0.3520	-0.3393	0.1730	-0.3014	0.2223	-0.2619	0.0231
n_v_d2		-0.0118	-0.2120	-0.0874	-0.1869	-0.0616	-0.1757	-0.0950
lit_h_d2		-0.0576	0.3434	0.0651	0.3625	0.1355	0.3944	0.0757
lit_v_d2		0.5737*	-0.1568	0.5573*	-0.1808	0.4763*	-0.1864	0.4144
lia_h_d2		-0.0366	0.3588	0.0910	0.3717	0.1440	0.4009	0.0966
lia_v_d2		0.6637*	-0.2575	0.5950*	-0.2785	0.5030*	-0.2947	0.4375*
in_h_d2		-0.2214	0.2464	-0.2642	0.2801	-0.1815	0.3043	-0.2060
in_v_d2		0.5626*	-0.2461	0.6354*	-0.2774	0.5221*	-0.2895	0.4761*
b_h_d2		-0.1513	0.1340	-0.1521	0.1638	-0.0736	0.1968	-0.1375
b_v_d2		0.5486*	0.1636	0.5863*	0.1483	0.5091*	0.1113	0.5013*
pog_h_d2		-0.2825	0.0873	-0.2637	0.1342	-0.1509	0.1927	-0.2497
pog_v_d2		0.2511	0.1815	0.2446	0.2254	0.3091	0.2576	0.1967
gn_h_d2		-0.3007	0.1095	-0.2720	0.1536	-0.1665	0.2111	-0.2574
gn_v_d2		0.4389*	-0.1793	0.4068	-0.1896	0.3372	-0.2183	0.3449
me_h_d2		-0.2581	0.1897	-0.2026	0.2271	-0.0944	0.2820	-0.1877
me_v_d2		0.4540*	-0.2098	0.4041	-0.2198	0.3413	-0.2468	0.3430
stms_h_d2		0.7130*	0.0621	0.5995*	0.0812	0.6320*	0.0440	0.6020*
stms_v_d2		-0.0312	-0.0221	-0.0766	0.0193	0.0025	0.0517	-0.0652
stmi_h_d2		0.1213	0.1818	0.0870	0.1843	0.1127	0.1739	0.1268
stmi_v_d2		0.6018*	-0.1353	0.4677*	-0.1266	0.3998	-0.1258	0.3191
li_h_d2		-0.1097	0.3668	0.0712	0.3641	0.1057	0.3780	0.1314
li_v_d2		0.6747*	-0.1969	0.4670*	-0.1758	0.4249*	-0.1832	0.3305
si_h_d2		-0.2091	0.3358	-0.1204	0.3749	0.0074	0.4050	-0.0314
si_v_d2		0.4676*	0.0703	0.5884*	0.0382	0.4814*	0.0342	0.4657*
pogl_h_d2		-0.2170	0.1832	-0.1949	0.2279	-0.0805	0.2662	-0.1434
pogl_v_d2		0.2383	-0.2961	0.2003	-0.2446	0.2553	-0.1746	0.0108
gnl_h_d2		-0.2824	0.1550	-0.2456	0.2017	-0.1346	0.2634	-0.2337
gnl_v_d2		0.4465*	-0.1314	0.3975	-0.1316	0.3197	-0.1319	0.2906
mel_h_d2		-0.2805	0.0072	-0.3396	0.0564	-0.2579	0.1252	-0.3581
mel_v_d2		0.4800*	-0.1646	0.4334*	-0.1824	0.3500	-0.2081	0.3624
mel_stmi_v		0.2622	0.6537*	0.5485*	0.6336*	0.5863*	0.5649*	0.7270*
mel_stmi_2v		0.5299*	0.6612*	0.7453*	0.6560*	0.7713*	0.5970*	0.8472*
stmi_s_v		0.5495*	-0.2153	0.4251*	-0.2412	0.2784	-0.2573	0.2681
stmi_s_2_v		-0.0749	-0.2831	-0.1490	-0.3093	-0.2504	-0.3024	-0.1830
pogl_pog_h		0.0357	0.4817*	0.1741	0.4719*	0.2518	0.4263*	0.3128
pogl_pog_2_h		-0.1856	0.2225	-0.0730	0.2319	0.0193	0.2528	-0.0326
mel_me_h		-0.1576	-0.0925	-0.1878	-0.0610	-0.1196	0.0226	-0.2829
mel_me_2_h		-0.0914	0.1640	0.0591	0.1727	0.1621	0.2361	0.0003
gnl_gn_h		-0.1590	0.1954	-0.0915	0.2135	0.0269	0.2563	-0.0763
gnl_gn_2_h		-0.2205	0.0650	-0.1811	0.0802	-0.0818	0.1139	-0.1595

li_me1_h	0.5311*	0.0722	0.5392*	0.0211	0.4360*	-0.0852	0.5953*
li_me1_2_h	0.3516	-0.0936	0.2093	-0.0975	0.1630	-0.1508	0.2226
	me1_h	me1_v	n_h_d2	n_v_d2	lit_h_d2	lit_v_d2	lia_h_d2
me1_h	1.0000						
me1_v	0.1253	1.0000					
n_h_d2	-0.1653	-0.0225	1.0000				
n_v_d2	-0.2453	-0.1122	0.3399	1.0000			
lit_h_d2	0.3613	0.0704	-0.0614	-0.1894	1.0000		
lit_v_d2	-0.1675	0.3761	0.2243	0.0328	-0.1475	1.0000	
lia_h_d2	0.3681	0.0918	-0.0933	-0.2158	0.9933*	-0.1388	1.0000
lia_v_d2	-0.2962	0.4004	0.3535	0.0741	-0.2413	0.9535*	-0.2329
in_h_d2	0.2721	-0.1902	-0.0494	-0.2015	0.8005*	-0.3627	0.7750*
in_v_d2	-0.2786	0.4327*	0.2737	0.1080	-0.3933	0.7213*	-0.3540
b_h_d2	0.1495	-0.1345	0.0702	-0.0076	0.8911*	-0.3689	0.8773*
b_v_d2	0.0752	0.4893*	0.2324	-0.0305	-0.1646	0.6017*	-0.1587
pog_h_d2	0.1996	-0.2612	0.0852	-0.0822	0.7448*	-0.4118	0.7169*
pog_v_d2	0.3320	0.1445	0.2478	0.2823	-0.1587	0.4234*	-0.1790
gn_h_d2	0.2129	-0.2671	0.0340	-0.1015	0.7676*	-0.4203	0.7452*
gn_v_d2	-0.2239	0.3252	0.2326	0.0580	-0.4242*	0.6377*	-0.4164
me_h_d2	0.2761	-0.1965	0.0293	-0.1026	0.7818*	-0.3532	0.7708*
me_v_d2	-0.2310	0.3219	0.2397	-0.0245	-0.4849*	0.6432*	-0.4752*
stms_h_d2	-0.0616	0.5985*	0.1864	0.0922	0.2137	0.2273	0.2024
stms_v_d2	0.0872	-0.0959	0.2285	0.1746	-0.2662	0.3370	-0.3094
stmi_h_d2	0.0591	0.1433	-0.0953	0.0437	0.4897*	-0.0809	0.4992*
stmi_v_d2	-0.0030	0.2772	0.3894	0.0298	-0.3353	0.7008*	-0.3092
li_h_d2	0.2704	0.1353	-0.2026	-0.1095	0.8414*	-0.1343	0.8386*
li_v_d2	-0.0936	0.2951	0.3949	0.0675	-0.2764	0.6986*	-0.2637
si_h_d2	0.3359	-0.0250	-0.0575	-0.0978	0.8237*	-0.4959*	0.8037*
si_v_d2	0.1070	0.4272*	0.1346	-0.1959	-0.0963	0.7225*	-0.0675
pogl_h_d2	0.2142	-0.1425	0.0405	-0.0012	0.7940*	-0.4581*	0.7695*
pogl_v_d2	0.0237	-0.0601	0.5427*	-0.1053	0.1108	0.4684*	0.0780
gn1_h_d2	0.2709	-0.2481	0.0678	-0.0418	0.7703*	-0.3778	0.7432*
gn1_v_d2	-0.0362	0.2518	0.2344	-0.1629	-0.3738	0.6916*	-0.3588
me1_h_d2	0.2305	-0.3785	0.1667	-0.1730	0.4967*	-0.4311*	0.4769*
me1_v_d2	-0.1670	0.3434	0.1876	-0.1601	-0.4239*	0.6612*	-0.4059
me1_stmi_v	0.3488	0.7629*	-0.4389*	-0.2176	0.2923	-0.0818	0.3041
me1_stmi_2v	0.4492*	0.8603*	-0.2375	-0.1249	0.2456	0.1574	0.2705
stmi_s_v	-0.1580	0.2412	0.2138	0.0046	-0.2699	0.5131*	-0.2142
stmi_s_2_v	-0.2850	-0.2000	-0.0336	0.2211	-0.3206	0.1721	-0.3044
pogl_pog_h	0.3285	0.3529	-0.3193	-0.3531	0.0316	-0.3212	0.0627
pogl_pog_2_h	0.2963	-0.0287	-0.1468	-0.4825*	0.1317	-0.2837	0.1427
me1_me_h	0.3085	-0.3317	0.2951	-0.2648	-0.0662	-0.0721	-0.0787
me1_me_2_h	0.3852	-0.0358	0.1069	-0.1705	0.2412	0.1280	0.2441
gn1_gn_h	0.3351	-0.0913	0.1223	-0.1450	0.0169	-0.2229	0.0146
gn1_gn_2_h	0.1644	-0.1621	0.0223	-0.2791	0.1263	-0.3500	0.1321
li_me1_h	-0.3667	0.6413*	-0.1535	0.1299	-0.0889	0.3080	-0.0652
li_me1_2_h	-0.3005	0.2505	0.1038	0.0176	0.0048	-0.0419	0.0118
	lia_v_d2	in_h_d2	in_v_d2	b_h_d2	b_v_d2	pog_h_d2	pog_v_d2
lia_v_d2	1.0000						
in_h_d2	-0.4037	1.0000					
in_v_d2	0.7946*	-0.7248*	1.0000				
b_h_d2	-0.3926	0.8686*	-0.5367*	1.0000			
b_v_d2	0.6472*	-0.2296	0.5165*	-0.3615	1.0000		
pog_h_d2	-0.4423*	0.7501*	-0.5082*	0.8605*	-0.5162*	1.0000	
pog_v_d2	0.4280*	-0.1656	0.3182	-0.2895	0.5447*	-0.2532	1.0000
gn_h_d2	-0.4583*	0.7633*	-0.5124*	0.8736*	-0.4996*	0.9955*	-0.2647
gn_v_d2	0.7439*	-0.3752	0.6067*	-0.5326*	0.6405*	-0.6191*	0.4434*
me_h_d2	-0.4163	0.7345*	-0.4649*	0.8528*	-0.4278*	0.9557*	-0.2490
me_v_d2	0.7481*	-0.4370*	0.6269*	-0.5984*	0.5791*	-0.6245*	0.3942
stms_h_d2	0.2931	0.1048	0.1789	0.2064	0.1989	0.1506	0.1180
stms_v_d2	0.3045	-0.2645	0.2116	-0.3279	0.0954	-0.0760	0.2760
stmi_h_d2	-0.0800	0.4097	-0.1655	0.4926*	-0.0376	0.2879	-0.2892
stmi_v_d2	0.7365*	-0.3817	0.6134*	-0.4827*	0.7336*	-0.5668*	0.5753*
li_h_d2	-0.2100	0.6655*	-0.3174	0.7216*	-0.1908	0.5917*	-0.2630

li_v_d2		0.7449*	-0.2631	0.5214*	-0.3708	0.7142*	-0.4771*	0.5521*
si_h_d2		-0.5330*	0.8023*	-0.5836*	0.8928*	-0.4550*	0.9196*	-0.2802
si_v_d2		0.7158*	-0.3034	0.6547*	-0.4014	0.7114*	-0.5359*	0.4988*
pogl_h_d2		-0.4944*	0.8016*	-0.5796*	0.9089*	-0.4475*	0.9559*	-0.2952
pogl_v_d2		0.4774*	0.0006	0.3559	0.0058	0.3837	0.0986	0.4949*
gnl_h_d2		-0.4385*	0.7500*	-0.5145*	0.8561*	-0.4318*	0.9769*	-0.1985
gnl_v_d2		0.7562*	-0.3634	0.6311*	-0.5396*	0.5989*	-0.5164*	0.5024*
mel_h_d2		-0.4747*	0.5415*	-0.4837*	0.6299*	-0.5282*	0.8617*	-0.2796
mel_v_d2		0.7467*	-0.3970	0.6179*	-0.5699*	0.5756*	-0.6061*	0.3351
mel_stmi_v		-0.1272	0.0788	-0.0210	0.1098	0.0988	0.0425	-0.1311
mel_stmi_2v		0.0960	-0.0312	0.1717	0.0052	0.4177	-0.1166	0.1658
stmi_s_v		0.5739*	-0.3039	0.5135*	-0.3449	0.5852*	-0.5666*	0.3541
stmi_s_2_v		0.1952	-0.2928	0.1919	-0.2510	-0.1069	-0.2359	-0.0444
pogl_pog_h		-0.3477	-0.0275	-0.1178	-0.0665	-0.0869	0.0036	-0.1406
pogl_pog_2_h		-0.3021	0.0798	-0.0908	0.0849	-0.3586	0.3741	-0.0993
mel_me_h		-0.1343	-0.0828	-0.0295	-0.1192	-0.1619	0.1555	0.2487
mel_me_2_h		0.0341	0.0722	0.1013	0.0543	0.0768	0.1349	0.4053
gnl_gn_h		-0.2762	-0.0526	-0.0560	-0.0092	-0.2849	0.2927	0.0895
gnl_gn_2_h		-0.3440	0.1081	-0.1199	0.1707	-0.4744*	0.4378*	-0.1294
li_mel_h		0.3876	-0.1620	0.3092	-0.1011	0.3237	-0.3034	-0.2079
li_mel_2_h		0.0384	0.0574	-0.0051	0.1898	-0.0982	0.2716	-0.3938

		gn_h_d2	gn_v_d2	me_h_d2	me_v_d2	stms_h~2	stms_v~2	stmi_h~2
gn_h_d2		1.0000						
gn_v_d2		-0.6323*	1.0000					
me_h_d2		0.9662*	-0.6152*	1.0000				
me_v_d2		-0.6435*	0.9828*	-0.6308*	1.0000			
stms_h_d2		0.1396	-0.0128	0.1111	-0.0069	1.0000		
stms_v_d2		-0.0938	0.2793	-0.1180	0.3297	0.0123	1.0000	
stmi_h_d2		0.3324	-0.1593	0.3875	-0.2069	0.4260*	-0.0516	1.0000
stmi_v_d2		-0.5703*	0.7009*	-0.5137*	0.6959*	0.1233	0.2090	-0.1412
li_h_d2		0.6206*	-0.2593	0.6419*	-0.3103	0.1701	-0.1799	0.6619*
li_v_d2		-0.4823*	0.6394*	-0.4485*	0.6312*	0.2923	0.1719	-0.0392
si_h_d2		0.9231*	-0.6160*	0.9155*	-0.6430*	0.2095	-0.2510	0.4207
si_v_d2		-0.5315*	0.7597*	-0.4752*	0.7346*	-0.0170	0.0507	-0.1511
pogl_h_d2		0.9617*	-0.6413*	0.9503*	-0.6692*	0.2168	-0.1525	0.4389*
pogl_v_d2		0.0805	0.3245	0.0741	0.3231	-0.0240	0.2694	-0.1721
gnl_h_d2		0.9821*	-0.6452*	0.9698*	-0.6626*	0.1340	-0.0712	0.3440
gnl_v_d2		-0.5321*	0.8763*	-0.5495*	0.8970*	0.0079	0.3553	-0.2733
mel_h_d2		0.8510*	-0.6886*	0.7916*	-0.6426*	0.0316	0.0438	0.0598
mel_v_d2		-0.6224*	0.9425*	-0.6228*	0.9695*	0.0446	0.2708	-0.1899
mel_stmi_v		0.0525	-0.1073	0.1139	-0.1200	0.3529	-0.2394	0.2146
mel_stmi_2v		-0.1007	-0.0103	0.0108	-0.0413	0.4512*	-0.2168	0.2057
stmi_s_v		-0.5563*	0.5866*	-0.4825*	0.5557*	0.0181	-0.2649	-0.0845
stmi_s_2_v		-0.2281	0.2802	-0.2090	0.2900	-0.2450	0.3670	0.0438
pogl_pog_h		0.0148	-0.3149	0.0886	-0.2630	0.1654	-0.2544	-0.0083
pogl_pog_2_h		0.3606	-0.3864	0.3511	-0.2984	0.0411	-0.0720	-0.2400
mel_me_h		0.1279	-0.2232	0.0777	-0.1293	-0.1447	0.1137	-0.4801*
mel_me_2_h		0.1367	-0.0015	0.2309	0.0071	-0.0593	-0.1189	-0.0902
gnl_gn_h		0.2750	-0.4553*	0.2924	-0.3640	0.1007	0.0602	-0.2204
gnl_gn_2_h		0.4225	-0.4369*	0.3790	-0.3494	0.1174	-0.0206	-0.1559
li_mel_h		-0.2964	0.2743	-0.2531	0.2449	0.4760*	-0.1462	0.2759
li_mel_2_h		0.2538	-0.2871	0.2294	-0.2465	0.4785*	-0.0279	0.0423

		stmi_v~2	li_h_d2	li_v_d2	si_h_d2	si_v_d2	pogl_h~2	pogl_v~2
stmi_v_d2		1.0000						
li_h_d2		-0.4312*	1.0000					
li_v_d2		0.9532*	-0.3856	1.0000				
si_h_d2		-0.6350*	0.7461*	-0.5393*	1.0000			
si_v_d2		0.7513*	-0.0615	0.6223*	-0.5038*	1.0000		
pogl_h_d2		-0.5920*	0.6926*	-0.4789*	0.9634*	-0.5731*	1.0000	
pogl_v_d2		0.5535*	-0.1093	0.5428*	-0.0995	0.4841*	-0.0386	1.0000
gnl_h_d2		-0.5234*	0.6328*	-0.4319*	0.9165*	-0.5099*	0.9676*	0.1246
gnl_v_d2		0.8207*	-0.3390	0.7456*	-0.6064*	0.8103*	-0.6260*	0.5143*
mel_h_d2		-0.4132	0.2768	-0.3597	0.6963*	-0.5608*	0.7818*	0.1675
mel_v_d2		0.7318*	-0.2945	0.6684*	-0.6305*	0.7768*	-0.6715*	0.3244

me1_stmi_v		-0.3129	0.4237*	-0.2948	0.3545	0.0229	0.1766	-0.4237*
me1_stmi_2v		0.1238	0.2408	0.1363	0.1688	0.2514	0.0370	-0.1553
stmi_s_v		0.8278*	-0.3265	0.7713*	-0.5638*	0.7002*	-0.5465*	0.3327
stmi_s_2_v		0.0659	-0.0912	-0.0306	-0.3394	0.0916	-0.2414	-0.0586
pogl_pog_h		-0.2893	0.0180	-0.3136	0.1954	-0.1997	0.0597	-0.4658*
pogl_pog_2_h		-0.3448	-0.0296	-0.3883	0.3271	-0.2371	0.2246	-0.0715
me1_me_h		0.1469	-0.3089	0.0719	-0.0405	0.0484	-0.0261	0.4633*
me1_me_2_h		0.1155	0.1219	0.0318	0.1275	0.3123	0.0491	0.3737
gn1_gn_h		-0.2532	-0.0802	-0.2845	0.2379	-0.2759	0.2017	-0.0262
gn1_gn_2_h		-0.4087	0.0012	-0.4290*	0.3529	-0.3595	0.2990	-0.1163
li_me1_h		0.0214	0.1084	0.1156	-0.1211	0.0821	-0.1506	-0.4738*
li_me1_2_h		-0.1954	-0.0843	-0.0571	0.2250	-0.4651*	0.3080	-0.2979

		gn1_h_d2	gn1_v_d2	me1_h_d2	me1_v_d2	me1_s~_v	me1_s~2v	stmi_s_v

gn1_h_d2		1.0000						
gn1_v_d2		-0.5490*	1.0000					
me1_h_d2		0.8540*	-0.4368*	1.0000				
me1_v_d2		-0.6543*	0.9395*	-0.5945*	1.0000			
me1_stmi_v		0.0564	-0.2202	-0.1772	-0.1004	1.0000		
me1_stmi_2v		-0.0421	-0.0296	-0.2281	-0.0065	0.8485*	1.0000	
stmi_s_v		-0.5232*	0.6089*	-0.4592*	0.5876*	-0.2720	0.0979	1.0000
stmi_s_2_v		-0.2198	0.1595	-0.1376	0.1905	-0.3398	-0.3998	0.2071
pogl_pog_h		-0.0238	-0.3204	-0.0609	-0.2350	0.6083*	0.5221*	-0.3136
pogl_pog_2_h		0.2726	-0.1808	0.3566	-0.2272	0.2351	0.0789	-0.4585*
me1_me_h		0.1418	0.1125	0.4458*	-0.0527	-0.3999	-0.2749	-0.0122
me1_me_2_h		0.1535	0.0613	-0.0069	0.0270	0.0030	0.0844	0.0527
gn1_gn_h		0.2704	-0.2852	0.3594	-0.3465	0.0852	0.0558	-0.4327*
gn1_gn_2_h		0.3286	-0.2733	0.4169	-0.3008	0.0679	-0.1130	-0.5190*
li_me1_h		-0.3155	0.0312	-0.5032*	0.2251	0.5377*	0.4719*	0.1067
li_me1_2_h		0.2297	-0.2547	0.3497	-0.2259	0.2032	0.1673	-0.2003

		s~_s_2_v	pogl~g_h	pogl_p..	me1_me_h	me~e_2_h	gn1_gn_h	gn~n_2_h

stmi_s_2_v		1.0000						
pogl_pog_h		-0.5390*	1.0000					
pogl_pog_2_h		-0.4989*	0.7092*	1.0000				
me1_me_h		-0.2235	0.0515	0.4630*	1.0000			
me1_me_2_h		-0.3436	0.3010	0.4642*	0.5360*	1.0000		
gn1_gn_h		-0.4464*	0.6446*	0.8025*	0.6328*	0.5728*	1.0000	
gn1_gn_2_h		-0.4188	0.6209*	0.9229*	0.5008*	0.4465*	0.8674*	1.0000
li_me1_h		0.0008	0.2051	-0.2330	-0.7891*	-0.4502*	-0.3319	-0.2694
li_me1_2_h		-0.0980	0.1555	0.1286	-0.2587	-0.5684*	0.0466	0.1360

		li_me1_h	li_m~2_h

li_me1_h		1.0000	
li_me1_2_h		0.5324*	1.0000

Note: The two shaded variables are the same variable, names are abbreviated in abbreviated in the horizontal.