

```

1 .
2 . * Descriptions
3 . bysort hiv2: tabstat newlwcc new2wcc if hiv2s!=., by(outcome) stats (p50 p25 p75)

```

```

-> hiv2s = 0

```

```

Summary statistics: p50, p25, p75
by categories of: outcome (Outcome)

```

outcome	newlwcc	new2wcc
Alive	11.85	10.78
	7.5	8.41
	19.8	16.48
Died	12.535	13.08
	5.105	5.2
	23.61	23.6
Total	12.25	11.09
	6.9	7.7
	20.6	18.1

```

-> hiv2s = 1

```

```

Summary statistics: p50, p25, p75
by categories of: outcome (Outcome)

```

outcome	newlwcc	new2wcc
Alive	9.81	9.9
	4.95	7
	15.39	12.55
Died	8.82	9.35
	3	4.1
	20.26	12.08
Total	8.975	9.9
	4	5.7
	18	12.4

```

4 . bysort hiv2: tabstat newlneut new2neut if hiv2s!=., by(outcome) stats (p50 p25 p75)

```

```

-> hiv2s = 0

```

```

Summary statistics: p50, p25, p75
by categories of: outcome (Outcome)

```

outcome	newlneut	new2neut
Alive	4.86	4.63
	2.86	2.27
	10.18	8.33
Died	4.525	7.955
	.745	1.33
	13.05	14.62
Total	4.77	4.66
	2.22	2.1
	11.03	10.06

```

-> hiv2s = 1

```

```

Summary statistics: p50, p25, p75
by categories of: outcome (Outcome)

```

outcome	newlneut	new2neut
Alive	3.69	3.995
	.99	2.31
	8.51	5.56
Died	2.9	3.41
	.62	1.41
	8.45	6.29

Total	3.53	3.735
	.98	1.72
	8.45	6.02

```
5 . bysort hiv2: tabstat new1band new2band if hiv2s!., by(outcome) stats (p50 p25 p75)
```

```
-> hiv2s = 0
```

```
Summary statistics: p50, p25, p75  
by categories of: outcome (Outcome)
```

outcome	new1band	new2band
Alive	1.55	.41
	.34	.13
	4.28	1.43
Died	2.165	1.025
	.24	.27
	4.985	3.3
Total	1.6	.49
	.28	.17
	4.41	1.98

```
-> hiv2s = 1
```

```
Summary statistics: p50, p25, p75  
by categories of: outcome (Outcome)
```

outcome	new1band	new2band
Alive	1.56	.19
	.41	.035
	4.73	.99
Died	1.65	1.245
	.25	.35
	4.96	3.5
Total	1.58	.49
	.34	.07
	4.73	1.47

```
6 . bysort hiv2: tabstat band1perc band2perc if hiv2s!., by(outcome) stats (p50 p25 p75)
```

```
-> hiv2s = 0
```

```
Summary statistics: p50, p25, p75  
by categories of: outcome (Outcome)
```

outcome	band1p-c	band2p-c
Alive	13.04348	5.431573
	4.935065	.9756098
	26.89655	12
Died	14.04442	10.5
	1.501454	6.010929
	29.97014	25.95838
Total	13.96825	6.964619
	3.04878	.980768
	26.98113	15.98527

```
-> hiv2s = 1
```

```
Summary statistics: p50, p25, p75  
by categories of: outcome (Outcome)
```

outcome	band1p-c	band2p-c
Alive	19.90291	2.025195
	6.8	.472973
	30.10101	11
Died	17.02335	16.9746

	8	10
	27.98527	25.95745
Total	19.00436	10
	7.995619	.9876543
	28.04124	16.98842

```
7 . bysort hiv2: tabstat new1plat new2plat if hiv2s!=., by(outcome) stats (p50 p25 p75)
```

-> hiv2s = 0

Summary statistics: p50, p25, p75
by categories of: outcome (Outcome)

outcome	new1plat	new2plat
Alive	194.5	229.5
	66	100
	394	472
Died	60	37
	21	11
	136	142
Total	140	181
	44	56
	308	430

-> hiv2s = 1

Summary statistics: p50, p25, p75
by categories of: outcome (Outcome)

outcome	new1plat	new2plat
Alive	94	132.5
	22	45
	241	233.5
Died	42	63.5
	11	17
	140	143
Total	60.5	98.5
	18	36
	182.5	204

```
8 .
9 . *Hypothesis testing
10 .
11 . *HIV negative - alive
12 . signrank newlwcc=new2wcc if hiv2s==0 & outcome==0
```

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
positive	55	2699.5	2575.5
negative	46	2451.5	2575.5
zero	0	0	0
all	101	5151	5151

unadjusted variance 87137.75
adjustment for ties -0.38
adjustment for zeros 0.00
adjusted variance 87137.38

Ho: newlwcc = new2wcc
z = 0.420
Prob > |z| = 0.6744
Exact Prob = 0.6763

```
13 . signrank newlneut=new2neut if hiv2s==0 & outcome==0
```

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
------	-----	-----------	----------

positive	31	989.5	855
negative	26	720.5	855
zero	1	1	1
all	58	1711	1711

unadjusted variance **16682.25**
 adjustment for ties **-0.12**
 adjustment for zeros **-0.25**

adjusted variance **16681.88**

Ho: newlneut = new2neut
 z = **1.041**
 Prob > |z| = **0.2977**
 Exact Prob = **0.3010**

14 . signrank newlband=new2band if hiv2s==0 & outcome==0

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
positive	37	1262	850.5
negative	17	439	850.5
zero	4	10	10
all	58	1711	1711

unadjusted variance **16682.25**
 adjustment for ties **0.00**
 adjustment for zeros **-7.50**

adjusted variance **16674.75**

Ho: newlband = new2band
 z = **3.187**
 Prob > |z| = **0.0014**
 Exact Prob = **0.0012**

15 . signrank bandlperc=band2perc if hivs==0 & outcome==0

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
positive	37	1064	687.5
negative	13	311	687.5
zero	2	3	3
all	52	1378	1378

unadjusted variance **12057.50**
 adjustment for ties **0.00**
 adjustment for zeros **-1.25**

adjusted variance **12056.25**

Ho: bandlperc = band2perc
 z = **3.429**
 Prob > |z| = **0.0006**
 Exact Prob = **0.0004**

16 . signrank newlplat=new2plat if hiv2s==0 & outcome==0

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
positive	33	1295	2328
negative	63	3361	2328
zero	0	0	0
all	96	4656	4656

unadjusted variance **74884.00**
 adjustment for ties **-2.62**
 adjustment for zeros **0.00**

adjusted variance **74881.38**

Ho: newlplat = new2plat
 z = **-3.775**
 Prob > |z| = **0.0002**
 Exact Prob = **0.0001**

```
17 .
18 . *HIV negative - dead
19 . signrank newlwcc=new2wcc if hiv2s==0 & outcome==1
```

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
positive	15	247	232.5
negative	15	218	232.5
zero	0	0	0
all	30	465	465

```
unadjusted variance    2363.75
adjustment for ties      0.00
adjustment for zeros      0.00
```

```
adjusted variance      2363.75
```

```
Ho: newlwcc = new2wcc
    z = 0.298
Prob > |z| = 0.7655
Exact Prob = 0.7766
```

```
20 . signrank newlneut=new2neut if hiv2s==0 & outcome==1
```

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
positive	8	108	126
negative	13	144	126
zero	1	1	1
all	22	253	253

```
unadjusted variance    948.75
adjustment for ties      0.00
adjustment for zeros    -0.25
```

```
adjusted variance      948.50
```

```
Ho: newlneut = new2neut
    z = -0.584
Prob > |z| = 0.5589
Exact Prob = 0.5769
```

```
21 . signrank newlband=new2band if hiv2s==0 & outcome==1
```

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
positive	11	148	125
negative	9	102	125
zero	2	3	3
all	22	253	253

```
unadjusted variance    948.75
adjustment for ties      0.00
adjustment for zeros    -1.25
```

```
adjusted variance      947.50
```

```
Ho: newlband = new2band
    z = 0.747
Prob > |z| = 0.4549
Exact Prob = 0.4724
```

```
22 . signrank bandlperc=band2perc if hivs==0 & outcome==1
```

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
positive	11	121	75
negative	4	29	75
zero	2	3	3
all	17	153	153

```
unadjusted variance    446.25
```

```

adjustment for ties      0.00
adjustment for zeros    -1.25
-----
adjusted variance      445.00

```

```

Ho: band1perc = band2perc
    z = 2.181
Prob > |z| = 0.0292
Exact Prob = 0.0283

```

```
23 . signrank new1plat=new2plat if hiv2s==0 & outcome==1
```

```
Wilcoxon signed-rank test
```

sign	obs	sum ranks	expected
positive	20	299	217.5
negative	9	136	217.5
zero	0	0	0
all	29	435	435

```

unadjusted variance    2138.75
adjustment for ties    0.00
adjustment for zeros    0.00
-----
adjusted variance      2138.75

```

```

Ho: new1plat = new2plat
    z = 1.762
Prob > |z| = 0.0780
Exact Prob = 0.0798

```

```
24 .
25 .
26 . *HIV positive- alive
```

```
27 . signrank new1wcc=new2wcc if hiv2s==1 & outcome==0
```

```
Wilcoxon signed-rank test
```

sign	obs	sum ranks	expected
positive	13	191	203
negative	15	215	203
zero	0	0	0
all	28	406	406

```

unadjusted variance    1928.50
adjustment for ties    0.00
adjustment for zeros    0.00
-----
adjusted variance      1928.50

```

```

Ho: new1wcc = new2wcc
    z = -0.273
Prob > |z| = 0.7847
Exact Prob = 0.7966

```

```
28 . signrank new1neut=new2neut if hiv2s==1 & outcome==0
```

```
Wilcoxon signed-rank test
```

sign	obs	sum ranks	expected
positive	2	14	38.5
negative	9	63	38.5
zero	1	1	1
all	12	78	78

```

unadjusted variance    162.50
adjustment for ties    0.00
adjustment for zeros   -0.25
-----
adjusted variance      162.25

```

```

Ho: new1neut = new2neut
    z = -1.923
Prob > |z| = 0.0544
Exact Prob = 0.0576

```

```
29 . signrank new1band=new2band if hiv2s==1 & outcome==0
```

```
Wilcoxon signed-rank test
```

sign	obs	sum ranks	expected
positive	8	63	38.5
negative	3	14	38.5
zero	1	1	1
all	12	78	78

unadjusted variance 162.50
 adjustment for ties 0.00
 adjustment for zeros -0.25

adjusted variance 162.25

Ho: newlband = new2band
 z = 1.923
 Prob > |z| = 0.0544
 Exact Prob = 0.0576

30 . signrank bandlperc=band2perc if hivs==1 & outcome==0

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
positive	4	14	7
negative	0	0	7
zero	1	1	1
all	5	15	15

unadjusted variance 13.75
 adjustment for ties 0.00
 adjustment for zeros -0.25

adjusted variance 13.50

Ho: bandlperc = band2perc
 z = 1.905
 Prob > |z| = 0.0568
 Exact Prob = 0.1250

31 . signrank newlplat=new2plat if hiv2s==1 & outcome==0

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
positive	10	111	203
negative	18	295	203
zero	0	0	0
all	28	406	406

unadjusted variance 1928.50
 adjustment for ties -0.25
 adjustment for zeros 0.00

adjusted variance 1928.25

Ho: newlplat = new2plat
 z = -2.095
 Prob > |z| = 0.0362
 Exact Prob = 0.0352

32 .
 33 . *HIV positive - dead

34 . signrank newlwcc=new2wcc if hiv2s==1 & outcome==1

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
positive	11	86	85.5
negative	7	85	85.5
zero	0	0	0
all	18	171	171

unadjusted variance 527.25
 adjustment for ties 0.00
 adjustment for zeros 0.00

adjusted variance 527.25

```

Ho: newlwcc = new2wcc
      z = 0.022
Prob > |z| = 0.9826
Exact Prob = 1.0000

```

```
35 . signrank newlneut=new2neut if hiv2s==1 & outcome==1
```

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
positive	9	66	52.5
negative	5	39	52.5
zero	0	0	0
all	14	105	105

```

unadjusted variance    253.75
adjustment for ties    0.00
adjustment for zeros    0.00

```

```
adjusted variance      253.75
```

```

Ho: newlneut = new2neut
      z = 0.847
Prob > |z| = 0.3967
Exact Prob = 0.4263

```

```
36 . signrank newlband=new2band if hiv2s==1 & outcome==1
```

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
positive	7	54	52
negative	6	50	52
zero	1	1	1
all	14	105	105

```

unadjusted variance    253.75
adjustment for ties    0.00
adjustment for zeros   -0.25

```

```
adjusted variance      253.50
```

```

Ho: newlband = new2band
      z = 0.126
Prob > |z| = 0.9000
Exact Prob = 0.9272

```

```
37 . signrank bandlperc=band2perc if hivs==1 & outcome==1
```

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
positive	3	8	7.5
negative	2	7	7.5
zero	0	0	0
all	5	15	15

```

unadjusted variance    13.75
adjustment for ties    0.00
adjustment for zeros    0.00

```

```
adjusted variance      13.75
```

```

Ho: bandlperc = band2perc
      z = 0.135
Prob > |z| = 0.8927
Exact Prob = 1.0000

```

```
38 . signrank newlplat=new2plat if hiv2s==1 & outcome==1
```

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
positive	8	73	76.5
negative	9	80	76.5
zero	0	0	0
all	17	153	153

unadjusted variance	446.25
adjustment for ties	-0.12
adjustment for zeros	0.00
	<hr/>
adjusted variance	446.12

Ho: new1plat = new2plat
z = -0.166
Prob > |z| = 0.8684
Exact Prob = 0.8803

39 .

40 .