

```

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	11.7	11.13
	7.2	8.19
	20.07	16.89
Died	12.57	13.08
	5.9	5.2
	21.87	23.6
Total	11.9	11.545
	6.6	7.68
	21	17.72

```

-> hiv2s = 1

```

```

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

```

outcome	newlwcc	new2wcc
Alive	9.305	9.9
	4.95	7
	13.2	12.55
Died	8.82	9.35
	3	4.1
	20.26	12.08
Total	8.82	9.9
	4	5.7
	16.57	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	5.61	4.42
	2.8	2.1
	10.275	8.33
Died	4.63	6.325
	.76	1.33
	12.69	15.1
Total	5.09	4.42
	2.2	1.84
	10.37	10.06

```

-> hiv2s = 1

```

```

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

```

outcome	newlneut	new2neut
Alive	3.63	3.995
	.99	2.31
	7.28	5.56
Died	2.9	3.41
	.62	1.41
	8.45	6.29

Total	3.36	3.735
	.865	1.72
	7.865	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	1.385	.41
	.305	.13
	3.645	1.43
Died	1.81	.495
	.22	.18
	4.37	2.31
Total	1.4	.44
	.27	.13
	3.66	1.53

```
-> hiv2s = 1
```

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

outcome	new1band	new2band
Alive	1.525	.19
	.41	.035
	4.18	.99
Died	1.65	1.245
	.25	.35
	4.96	3.5
Total	1.57	.49
	.34	.07
	4.6	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	13.47349	5.431573
	3.011608	.9760301
	26.45713	12.50106
Died	13.9967	7.982301
	2.012809	.9788769
	27.01835	13.98305
Total	13.96825	5.990539
	3.010033	.9764503
	26.89655	13.00211

```
-> hiv2s = 1
```

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

outcome	band1p-c	band2p-c
Alive	19.45364	2.025195
	6.8	.472973
	29.01099	11
Died	17.02335	16.9746

	8	10
	27.98527	25.95745
Total	18.50218	10
	7.970823	.9876543
	28.01325	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	204	239
	78	110
	383.5	499
Died	61	40.5
	18	16
	136	142
Total	142.5	209
	48	64
	313	455

```
-> hiv2s = 1
```

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

outcome	new1plat	new2plat
Alive	92.5	132.5
	22	45
	238	233.5
Died	42	63.5
	11	17
	140	143
Total	59	98.5
	18	36
	173	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	48	2053.5	1958
negative	40	1862.5	1958
zero	0	0	0
all	88	3916	3916

```
unadjusted variance 57761.00
adjustment for ties -0.25
adjustment for zeros 0.00
adjusted variance 57760.75
```

```
Ho: newlwcc = new2wcc
z = 0.397
Prob > |z| = 0.6911
Exact Prob = 0.6933
```

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

```
Wilcoxon signed-rank test
```

sign	obs	sum ranks	expected
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positive	29	829.5	688.5
negative	22	547.5	688.5
zero	1	1	1
all	52	1378	1378

unadjusted variance **12057.50**
 adjustment for ties **-0.12**
 adjustment for zeros **-0.25**

 adjusted variance **12057.12**

Ho: newlneut = new2neut
 z = **1.284**
 Prob > |z| = **0.1991**
 Exact Prob = **0.2017**

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

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
positive	33	1026	684
negative	15	342	684
zero	4	10	10
all	52	1378	1378

unadjusted variance **12057.50**
 adjustment for ties **0.00**
 adjustment for zeros **-7.50**

 adjusted variance **12050.00**

Ho: newlband = new2band
 z = **3.116**
 Prob > |z| = **0.0018**
 Exact Prob = **0.0015**

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

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
positive	32	826	539
negative	12	252	539
zero	2	3	3
all	46	1081	1081

unadjusted variance **8377.75**
 adjustment for ties **0.00**
 adjustment for zeros **-1.25**

 adjusted variance **8376.50**

Ho: bandlperc = band2perc
 z = **3.136**
 Prob > |z| = **0.0017**
 Exact Prob = **0.0013**

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

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
positive	28	919.5	1743
negative	55	2566.5	1743
zero	0	0	0
all	83	3486	3486

unadjusted variance **48513.50**
 adjustment for ties **-2.12**
 adjustment for zeros **0.00**

 adjusted variance **48511.38**

Ho: newlplat = new2plat
 z = **-3.739**
 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	12	152	126.5
negative	10	101	126.5
zero	0	0	0
all	22	253	253

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

```
adjusted variance      948.75
```

Ho: newlwcc = new2wcc

```
z = 0.828
Prob > |z| = 0.4077
Exact Prob = 0.4245
```

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

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
positive	7	65	67.5
negative	8	70	67.5
zero	1	1	1
all	16	136	136

```
unadjusted variance    374.00
adjustment for ties    0.00
adjustment for zeros   -0.25
```

```
adjusted variance      373.75
```

Ho: newlneut = new2neut

```
z = -0.129
Prob > |z| = 0.8971
Exact Prob = 0.9199
```

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

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
positive	10	102	66.5
negative	4	31	66.5
zero	2	3	3
all	16	136	136

```
unadjusted variance    374.00
adjustment for ties    0.00
adjustment for zeros   -1.25
```

```
adjusted variance      372.75
```

Ho: newlband = new2band

```
z = 1.839
Prob > |z| = 0.0660
Exact Prob = 0.0691
```

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

Wilcoxon signed-rank test

sign	obs	sum ranks	expected
positive	9	86	51
negative	3	16	51
zero	2	3	3
all	14	105	105

```
unadjusted variance    253.75
```

```

adjustment for ties      0.00
adjustment for zeros    -1.25
-----
adjusted variance      252.50

```

```

Ho: band1perc = band2perc
   z = 2.203
Prob > |z| = 0.0276
Exact Prob = 0.0264

```

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

```
Wilcoxon signed-rank test
```

sign	obs	sum ranks	expected
positive	15	171	115.5
negative	6	60	115.5
zero	0	0	0
all	21	231	231

```

unadjusted variance      827.75
adjustment for ties      0.00
adjustment for zeros      0.00
-----
adjusted variance      827.75

```

```

Ho: new1plat = new2plat
   z = 1.929
Prob > |z| = 0.0537
Exact Prob = 0.0547

```

```
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: new1band = new2band
 $z = 1.923$
 Prob > $|z| = 0.0544$
 Exact Prob = 0.0576

30 . signrank band1perc=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: band1perc = band2perc
 $z = 1.905$
 Prob > $|z| = 0.0568$
 Exact Prob = 0.1250

31 . signrank new1plat=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: new1plat = new2plat
 $z = -2.095$
 Prob > $|z| = 0.0362$
 Exact Prob = 0.0352

32 .
 33 . *HIV positive - dead

34 . signrank new1wcc=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	2	3	1.5
negative	0	0	1.5
zero	0	0	0
all	2	3	3

```

unadjusted variance    1.25
adjustment for ties    0.00
adjustment for zeros    0.00

```

```
adjusted variance      1.25
```

```

Ho: bandlperc = band2perc
      z = 1.342
Prob > |z| = 0.1797
Exact Prob = 0.5000

```

```
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 .