

Unit 5 – STATA for Data Description (Part 2)

Homework SOLUTIONS

Description of [hersdata.dta](#)

These data are a simple random sample of n=2763 observations from the HERS study. The HERS study was a randomized clinical trial of hormone therapy (estrogen plus progestin) for the reduction of cardiovascular disease risk in post-menopausal women with established coronary disease. Study participants were n=2,763 women who were: (1) post-menopausal (2) with coronary disease; and (3) with an intact uterus.

___1. Using asdoc to export your results to a word document, create one-way frequency tables for the following variables: HT, raceth, globrat.

```
. asdoc table HT, format(%8.2f) title(Frequency Table: Randomization) save(hw5.doc)
. asdoc table raceth, format(%8.2f) title(Frequency Table: Race/Ethnicity) save(hw5.doc) append
. asdoc table globrat, format(%8.2f) title(Frequency Table: Self-reported Health) save(hw5.doc) append
```

Frequency Table: Randomization

random assignment to hormone therapy	Frequency
placebo	1383
hormone therapy	1380

Frequency Table: Race/Ethnicity

race/ethnicity	Frequency
White	2451
African American	218
Other	94

Frequency Table: Self-reported Health

self-reported health	Frequency
poor	60
fair	605
good	1308
very good	674
excellent	113

2. Using asdoc to export your results to a word document, create two-way crosstabulations for the following pairs of variables: raceth x smoking, statins x exercise, and poorfair x physact.

```
. asdoc tabulate raceth smoking, nokey row title(Xtab: Race/Ethnicity x Smoking) save(hw5.doc) append

. asdoc tabulate statins exercise, nokey row title(Xtab: Statin Use x Exercise at least 3x/week)
save(hw5.doc) append

. asdoc tabulate poorfair physact, nokey row title(Xtab: Poor/Fair Self-Reported Exercise x Physical
Activity) save(hw5.doc) append
```

Xtab: Race/Ethnicity x Smoking

race/ethnicity	current smoker		
	No	yes	Total
White	2132	319	2451
	86.98	13.02	100.00
African American	186	32	218
	85.32	14.68	100.00
Other	85	9	94
	90.43	9.57	100.00
Total	2403	360	2763
	86.97	13.03	100.00

First row has *frequencies* and second row has *row percentages*

Xtab: Statin Use x Exercise at least 3x/week

statin use	exercise at least 3 times per week		
	no	yes	Total
no	1102	657	1759
	62.65	37.35	100.00
yes	593	411	1004
	59.06	40.94	100.00
Total	1695	1068	2763
	61.35	38.65	100.00

First row has *frequencies* and second row has *row percentages*

Xtab: Poor/Fair Self-Reported Exercise x Physical Activity

poor/fair self-reported health	comparative physical activity					Total
	much less active	somewha t less active	about as active	somewha t more active	much more active	
no	70	290	719	747	269	2095
	3.34	13.84	34.32	35.66	12.84	100.00
yes	127	212	199	90	37	665
	19.10	31.88	29.92	13.53	5.56	100.00
Total	197	502	918	837	306	2760
	7.14	18.19	33.26	30.33	11.09	100.00

First row has *frequencies* and second row has *row percentages*

- ___3. Using **asdoc** to export your results to a word document, create a single table with summary statistics for the following 5 continuous variables: **age, BMI, glucose, LDL, and SBP**.

```
. asdoc sum age BMI glucose LDL SBP, stat(N mean sd semean min max) title(Selected Variable Descriptives)
save(hw5.doc) append
```

Selected Variable Descriptives

	N	Mean	St.Dev	se(Mean)	min	max
age	2763	66.649	6.653	.127	44	79
BMI	2758	28.579	5.518	.105	15.21	54.13
glucose	2763	112.152	36.849	.701	29	298
LDL	2752	145.039	37.803	.721	36.8	393.4
SBP	2763	135.069	19.028	.362	83	224

- ___4. Using **asdoc** to export your results to a word document, create a single table with summary statistics for the following 5 continuous variables, *separately for groups defined by HT*: **age, BMI, glucose, LDL, and SBP**.

```
. sort(HT)
```

```
. asdoc sum age BMI glucose LDL SBP, by(HT) stat(N mean sd semean min max) title(Selected Variable
Descriptives) save(hw5.doc) append
```

Selected Variable Descriptives

random assignment to hormone therapy: hormone therapy

	N	mean	sd	se(mean)	min	max
age	1380	66.525	6.624	.178	46	79
BMI	1379	28.635	5.522	.149	15.21	54.13
glucose	1380	111.854	36.866	.992	29	297
LDL	1373	145.218	38.342	1.035	44.4	351.2
SBP	1380	135.016	18.695	.503	87	197

placebo

age	1383	66.772	6.682	.18	44	79
BMI	1379	28.524	5.515	.149	16.68	54.17
glucose	1383	112.449	36.844	.991	53	298
LDL	1379	144.859	37.272	1.004	36.8	393.4
SBP	1383	135.123	19.361	.521	83	224