

Staff of the Biostatistical Coordinating Center (BCC) for MTOPS will not be able to complete their review of this document until later in the year. This memo is being released in DRAFT form with the understanding that revisions may be made when the BCC completes their review.

Integrity Check for MTOPS Baseline and Followup Files

As a partial check of the integrity of the MTOPS datasets archived in the NIDDK data repository, a set of tabulations was performed to verify that published results from the MTOPS study can be reproduced using the archived datasets. A small number of analyses were performed to duplicate published results for the baseline data and followup data reported by Medical Therapy of Prostatic Symptoms (MTOPS) Research Group in 2003 in the *New England Journal of Medicine (NEJM)*, [2] and in *Controlled Clinical Trials (CCT)*, [1]. The results of this integrity check are described below.

Baseline Data. The MTOPS Research Group reports results for 3,047 (randomized) study participants of whom 116 were recruited during the pilot phase and 2,931 during the full study. Participants were randomly assigned to four treatments: placebo (737), Doxazosin (756), Finasteride (768), or a combination of Doxazosin and Finasteride (786). Eligibility criteria for the study included: (1) age of 50 or older, (2) American Urological Association (AUA) symptom score of 8 to 35 for subjects recruited in pilot phase and 8 to 30 for full study; (3) maximal urinary flow rate between 4 and 15 ml. per second with a voided volume of at least 125 ml (McConnell et al., 2003, p. 2388).

As a partial check of the integrity of the baseline dataset, a set of tabulations was performed to verify that both the reported overall sample characteristics and the distribution of cases across the experimental conditions [1, Table 1] can be reproduced using the archived baseline dataset. (A copy of the published tables and the full text of the 2003 NEJM and CCT articles can be found in Attachments 1 and 2. STATA 8/SE code and output for our baseline tabulations are included in Attachment 3.)

The table published by Bautista et al. in *CCT* breaks down the MTOPS sample by study phase and by treatment condition. Table 1 compares this published breakdown to results obtained from the dataset extracted from the archived SAS CIMPORT file *baseline.xpt*. As Table 1 shows, the counts obtained from the archived data match exactly the published tabulations. McConnell et al. have also published a tabulation of the race/ethnicity of study subjects together with means and standard deviations for seven other subject characteristics: age, AUA symptom score, prostate volume, maximal urinary flow rate, post-voiding residual volume, serum PSA, and serum creatinine.

Table 2 compares the race/ethnicity of subjects by treatment group as reported in McConnell et al. (2003) to the results obtained from tabulation of the archived baseline data. Again, the comparison yields a perfect match. Table 3 compares the means and standard deviations for seven metric variables both for all subjects and for each treatment condition. 34 of the 35 means (7 variables for 4 treatments plus totals) match exactly. The mean AUA symptom score for the Doxazosin condition, however, was calculated to be 17.13 while the published value was 17.6.¹ Since AUA scores are recorded for all 768 subjects in the archived database, this minor discrepancy should not be due to differences in treatment of missing data. Comparison of the 35 standard deviations show many very small discrepancies (some of which may be due to differences in rounding conventions). None of these discrepancies occur in tabulations for the total sample.

¹ Interestingly the published standard deviation (5.9) is close to the tabulated value (5.95).

Followup Data. The MTOPS Research Group also reports values over time for the incidence of various indicators of clinical progression of benign prostatic hyperplasia (BPH). As a check of the integrity of the followup datasets, we replicated (for each treatment group) the time-in-study calculations as well as the counts at four years of the cumulative occurrence of five outcomes: a 4-point rise in AUA symptom scores; acute urinary retention; incontinence; urinary tract infection or urosepsis; and invasive therapy due to BPH. These outcomes were assessed independently using both data from the reporting forms for “pre-defined events” (Forms E01-E03)² and the outcome reports of the Clinical Review Committee (CRC; Form R02). Table 4 compares results of our analyses of outcomes using the CRC database to the published trial results at four years. It will be seen from Table 4 that for AUA symptom score increases and the three urinary event outcomes, our results exactly match the published counts with one exception. The exception is reporting of urinary retention. In the Combination Therapy condition, we counted 3 occurrences of urinary retention while McConnell et al. (2003) report 4. For invasive therapies due to BPH, the counts match exactly for the placebo and Finasteride conditions. However, we counted 23 events in the Doxazosin condition and 10 in the Combination therapy condition while the published counts are 26 and 12. This discrepancy may be due to classification of some of the “other” reported therapies as “invasive therapy due for BPH”. As Table 5 shows there were a substantial number of “other” therapies reported in the CRC database.

The details of our analyses and results are described below. (STATA 8/SE code and output for our tabulations from the followup dataset are included in Attachment 4).

Analyses. Our initial calculations assumed that the cumulative count of the number of events in the second panel of McConnell et al.’s Table 2 (labeled “at 4 yr”) represented counts for men who had completed at least four years of followup visits. This inference was *mistakenly* drawn from the text statement that: “The four-year cumulative incidence (among the 75 percent of men who had at least four years of follow-up data) of overall clinical progression was 17 percent in the placebo group . . . (p. 2390).”

Working with the events and dates reported on the CRC reports and a variety of alternative ways of defining time in study,³ we were never able to replicate the cumulative counts “at 4 years” in Table 2. Frustration ultimately led us to explore the initial reports of endpoint events (Forms E01, E02, and E03). Using the E-form variable that recorded weeks-in-study at the time of the event (e.g., AIVWK for reports of a 4-point AUA rises) and ignoring the length of the followup period, we discovered that we could finally match (with minor exceptions) the cumulative counts reported in the lower panel of Table 2. Re-analysis of the CCR report database ignoring length of followup and calculating a four-year period as 212 weeks (4 years plus 1 month),⁴ we were able to almost perfectly replicate the counts of events reported in

²Records of invasive therapies for BPH were not recorded in the E forms database.

³Calculations of endpoints were made using date of last Major FU visit, last standard FU visit, and the date recorded for last visit on form R10 for subjects who were lost to follow up. When no calculation of time-in-study using these alternates endpoints dates and dates of randomization allowed us to reproduce the numbers in Table 2, we explored alternate starting dates, e.g., date of screening visit 1, date of screening visit 2, etc. No permutation of start and end dates yielded a match of the counts of cumulative events reported in the lower panel of Table 2.

⁴We have queried the BCC for MTOPS concerning the additional month. (It is possible, for example, that medication was not begun until 4 weeks after randomization.)

Table 2. This calculation counts any event that occurred within 212 weeks after randomization regardless of whether the subject was followed for the entire four year period.

Calculation Details. To construct a dataset for these followup analyses, we proceeded through the following steps:

- Dates were calculated for the latest standard visit, latest major followup visit, and “last visit date” recorded on R10 form for subjects lost to followup.⁵ Dates were calculated by separately merging data for all versions of forms F01(standard FU visit), F02 (major FU visit), and R10 (subjects lost to FU), sorting by IDNUM and date of visit, and selecting the latest date for each type of visit record. An overall date of “last visit” was then calculated for subsequent use⁶ in calculating the length of the followup period. Files of last visit dates were saved for each type of visit record.
- Dates were then calculated for each of five target outcomes: (1) 4 pt. rise in AUA symptom scores, (2) invasive therapy for BPH, and (3–5) three urinary events — retention, incontinence, and urinary tract infection or urosepsis. Dates were extracted by repetitively merging data from all versions of the R02 clinical report datasets, selecting records for the target outcome using the WCLASS variable, sorting records by IDNUM and date of event, deleting all but the earliest record for each target outcome. Files of dates for each outcome were saved.
- The baseline dataset was then merged with the three datasets coding the dates of latest standard, major, and R-10 FU visits and the datasets recording the first dates of each target outcome. The merged data were then used to tabulate the number of target outcomes observed for each of four treatment conditions (placebo, Doxazosin, Finasteride, or combination of Doxazosin and Finasteride). The time intervals between dates of randomization and dates of occurrence of each outcome were then calculated. This interval was converted to weeks, and counts of target outcomes were calculated by time interval. Inspection of this tabulation revealed that use of an interval of 212 weeks (4 years plus 4 weeks) provided an almost exact match to published outcomes.

⁵Six subjects were missing dates entries for all 3 variables. The ID numbers of these subjects are: 0235, 1131, 1670, 2320, and 2940. For our analysis, we assumed these subjects were loss to followup immediately after randmization, i.e., weeks in study was set to zero.

⁶Calculated as: (1) Date of last visit recorded on R10 form for persons lost to followup; otherwise: (2) Date of last major FU visit if that date was later than date of last standard FU visit or if the date of last standard FU visit was missing; or (2) Date of last standard FU visit if that date was later than date of last major FU visit or if the date of last major FU visit was missing. 6 cases had missing values for all three date variables. These cases were assumed to have a zero length of followup.

- As a check on these calculations, a parallel analysis was conducted using data for the forms employed for initial reporting of 4 of the 5 target events (E01, E03). This analysis yielded equivalent results with two exceptions.⁷

⁷One exception occurred for reporting of AUA score rise: Subject 2590 had a CCR record indicating a confirmed 4-point rise but there was no equivalent record in the E01 forms database. The second exception occurred for reporting of urinary events. Subject 2968 has a CCR report of a confirmed urinary event (incontinence), but there was no equivalent record in the E03 database.

References

Bautista OM, Kusek JW, Nyberg LM, McConnell JD, Bain RP, Miller G, Crawford ED, Kaplan SA, Sihnelt SA, Braver MK, Lepor H. (2003) Study design of the Medical Therapy of Prostatic Symptoms (MTOPS) trial. *Controlled Clinical Trials*, 24(2):224-43.

McConnell JD, Roehrborn CG, Bautista OM, Andriole GL Jr, Dixon CM, Kusek JW, Lepor H, McVary KT, Nyberg LM Jr, Clarke HS, Crawford ED, Diokno A, Foley JP, Foster HE, Jacobs SC, Kaplan SA, Kreder KJ, Lieber MM, Lucia MS, Miller Menon M, Milam DF, Ramsdell JW, Schenkman NS, Slawin KM, Smith JA; Medical Therapy of Prostatic Symptoms (MTOPS) Research Group. (2003) The long-term effect of doxazosin, finasteride, and combination therapy on the clinical progression of benign prostatic hyperplasia. *New England Journal of Medicine*, 349(25):2387-98.

TABLE 1. Sample sizes in MTOPS trial by study phase and treatment condition: Comparison of Ns published by Bautista et al. (2003) and calculations from baseline data archived in NIDDK Repository.

BREAKDOWN	Published	Archive
<i>By Study Phase</i>		
Pilot	116	116
Full-Scale	2,931	2,931
TOTAL	3,047	3,047
<i>By Treatment</i>		
Placebo	737	737
Doxazosin	756	756
Finasteride	768	768
Combination	786	786
TOTAL	3,047	3,047

NOTE. Calculated from baseline dataset extracted from archived SAS CIMPORT file "baseline.xpt".

TABLE 2. Race-Ethnicity of subjects in MTOPS trial by treatment condition: Comparison of Ns published by McConnell et al. (2003, Table 1) and calculations from baseline data archived in NIDDK Repository.

RACE / ETHNICITY	TREATMENT				TOTALS
	Placebo	Doxazosin	Finasteride	Combination	
<i>Published</i>					
White	607	624	643	635	2,509
Black	67	65	61	77	270
Hispanic	52	57	47	67	223
Other	11	10	17	7	45
TOTALS	737	756	768	786	3,047
<i>Calculated from archived data</i>					
White	607	624	643	635	2,509
Black	67	65	61	77	270
Hispanic	52	57	47	67	223
Other	11	10	17	7	45
TOTALS	737	756	768	786	3,047

NOTE. Calculated from baseline dataset extracted from archived SAS CIMPORT file "baseline.xpt".

TABLE 3. Means and standard for reported baseline characteristics of subjects in MTOPS trial by treatment condition: Comparison of statistics reported by McConnell et al. (2003, Table 1) and calculations from data archived in NIDDK Repository.

Variable	Calculated from Archived Data			Published	
	N	Mean	SD	Mean	SD
<i>Total Sample</i>					
Age, years	3047	62.614	7.327	62.6	7.3
AUA symptom score	3047	16.927	5.903	16.9	5.9
Prostate volume, ml	3041	36.321	20.112	36.3	20.1
Maximal urinary flow rate, ml/sec	3045	10.466	2.588	10.5	2.6
Post-void residual volume, ml	3041	68.097	82.924	68.1	82.9
Serum PSA, mg/ml	3047	2.359	2.083	2.4	2.1
Serum creatinine, mg/dl	3047	1.063	0.185	1.1	0.2
<i>Placebo</i>					
Age, years	737	62.514	7.580	62.5	7.5
AUA symptom score	737	16.830	5.981	16.8	5.9
Prostate volume, ml	737	35.159	18.889	35.2	18.8
Maximal urinary flow rate, ml/sec	737	10.452	2.661	10.5	2.6
Post-void residual volume, ml	735	69.620	82.137	69.6	82.1
Serum PSA, mg/ml	737	2.329	2.088	2.3	2.0
Serum creatinine, mg/dl	737	1.065	0.185	1.1	0.1
<i>Doxazosin</i>					
Age, years	756	62.722	7.300	62.7	7.2
AUA symptom score	756	16.952	5.8503	17.0	5.8
Prostate volume, ml	756	36.876	21.609	36.9	21.6
Maximal urinary flow rate, ml/sec	756	10.309	2.587	10.3	2.5
Post-void residual volume, ml	754	69.218	88.253	69.2	88.2
Serum PSA, mg/ml	756	2.408	2.166	2.4	2.1
Serum creatinine, mg/dl	756	1.062	0.171	1.1	0.1
<i>Finasteride</i>					
Age, years	768	62.551	7.328	62.6	7.3
AUA symptom score	768	17.132	5.951	17.6	5.9
Prostate volume, ml	765	36.854	20.608	36.9	20.6
Maximal urinary flow rate, ml/sec	768	10.511	2.568	10.5	2.5
Post-void residual volume, ml	767	66.168	80.085	66.2	80
Serum PSA, mg/ml	768	2.359	2.104	2.4	2.1
Serum creatinine, mg/dl	768	1.061	0.182	1.1	0.1
<i>Combination</i>					
Age, years	786	62.665	7.122	62.7	7.1
AUA symptom score	786	16.794	5.839	16.8	5.8
Prostate volume, ml	783	36.357	19.209	36.4	19.2
Maximal urinary flow rate, ml/sec	784	10.587	2.533	10.6	2.5
Post-void residual volume, ml	785	67.479	81.199	67.5	81.1
Serum PSA, mg/ml	786	2.341	1.977	2.3	1.9
Serum creatinine, mg/dl	786	1.065	0.199	1.1	0.1

NOTE. Calculated from baseline dataset extracted from archived SAS CIMPORT file "baseline.xpt". Variables used from archived baseline file were: age = Age years; qssadd = AUA symptom score; tugev = Prostate volume ml; vummxfr = Maximal urinary flow rate ml/sec; vumpvr = Post-void residual volume ml; yspah = Serum PSA mg/ml; sscrcr = Serum creatinine mg/dl.

TABLE 4. Cumulative counts of five outcomes in MTOPS trial by treatment condition: Comparison of counts published by McConnell et al. (2003, Table 1) and calculations from data archived in NIDDK Repository. (Analysis limited to events observed within 212 weeks of randomization.)

RACE / ETHNICITY	TREATMENT			
	Placebo	Doxazosin	Finasteride	Combination
<i>Published</i>				
4 point or greater increase in AUA symptom score	97	55	65	36
Urinary retention	18	9	6	4
Incontinence	6	7	7	1
Urinary tract infection or urosepsis	1	2	0	1
Invasive therapy due to BPH	37	26	14	12
<i>Calculated from archived data</i>				
4 point or greater increase in AUA symptom score	97	55	65	36
Urinary retention	18	9	6	3
Incontinence	6	7	7	1
Urinary tract infection or urosepsis	1	2	0	1
Invasive therapy due to BPH	37	23	14	10

TABLE 5. Breakdown of "other" invasive therapies for BPH recorded in Clinical Review Report of MTOPS trial by treatment condition. (Analysis limited to therapies reported within 212 weeks of randomization.)

OTHER THERAPIES	TREATMENT			
	Placebo	Doxazosin	Finasteride	Combination
Bacillus Calmette-Guerrin (BCG)	0	0	1	1
Bladder Fulguration	0	0	1	0
External Beam Radiation	3	8	6	7
Orchiectomy	0	0	1	0
Radiation Seeds	8	5	5	6
Radical Cystectomy	0	0	0	1
Radiofrequency Treatment	0	1	0	0
Transurethral Resection of Bladder (TURBT)	2	2	1	3
Bladder and Prostate (TURBT/TURP)	0	2	0	1
Unknown	0	0	0	1

ATTACHMENT 1

"The full text of the article referenced will be provided to approved requestors along with the data archive."

Bautista OM, Kusek JW, Nyberg LM, McConnell JD, et al. (2003) Study design of the Medical Therapy of Prostatic Symptoms (MTOPS) trial. *Controlled Clinical Trials*, 24(2):224-43.

ATTACHMENT 2

"The full text of the article referenced will be provided to approved requestors along with the data archive."

McConnell JD, Roehrborn CG, Bautista OM, Andriole GL Jr, et al. (2003) The long-term effect of doxazosin, finasteride, and combination therapy on the clinical progression of benign prostatic hyperplasia. *New England Journal of Medicine*, 349(25):2387-98.

ATTACHMENT 3

STATA 8/SE Code and Output for
BASELINE Tabulations from MTOPS Dataset in NIDDK
Repository

```

log: P:\NIDDK\MTOPS\Baseline\Base_1.log
log type: text
opened on: 6 Jun 2006, 12:02:45

```

```

. use "P:\NIDDK\MTOPS\Baseline\baseline_copy.dta", clear

. label define drug 1"Placebo" 2"Doxazosin" 3"Finasteride" 4"Combination"

. label values drug drug

. tab drug study

```

treatment group	pilot/full scale		Total
	1	2	
Placebo	27	710	737
Doxazosin	28	728	756
Finasteride	29	739	768
Combination	32	754	786
Total	116	2,931	3,047

```

. describe age qssadd vummxfr tugev vumpvr yspsah

```

variable name	storage type	display format	value label	variable label
age	byte	%8.0g		age at screening visit 1
qssadd	byte	%8.0g		aua symptom score - q01
vummxfr	float	%9.0g		uroflow-maximum flow rate - b03
tugev	float	%9.0g		tot gland-ellipsoid volume - p01
vumpvr	int	%8.0g		uroflow-post void residual - b03
yspsah	float	%9.0g		psa - hybritech - d01

```

. summarize age qssadd vummxfr tugev vumpvr yspsah

```

Variable	Obs	Mean	Std. Dev.	Min	Max
age	3047	62.61405	7.327399	50	89
qssadd	3047	16.92714	5.903131	8	35
vummxfr	3045	10.46617	2.58756	4	15.3
tugev	3041	36.32068	20.11169	6.1	185
vumpvr	3041	68.09701	82.92447	0	789
yspsah	3047	2.35914	2.083365	.2	10.5

```

. centile tugev

```

Variable	Obs	Percentile	Centile	-- Binom. Interp. -- [95% Conf. Interval]
tugev	3041	50	31	30.2 31.7

```
. summarize age qssadd vummxfr tugev vumpvr yspsah if drug == 1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
age	737	62.51425	7.580017	50	89
qssadd	737	16.83039	5.980925	8	30
vummxfr	737	10.4517	2.661241	4	15
tugev	737	35.15875	18.88913	8.1	181
vumpvr	735	69.62041	82.13675	0	535
yspsah	737	2.329172	2.088375	.2	10

```
. centile tugev if drug==1
```

Variable	Obs	Percentile	Centile	-- Binom. Interp. --	[95% Conf. Interval]
tugev	737	50	30.6	29	31.6

```
.  
end of do-file
```

```
. log close  
  log: P:\NIDDK\MTOPS\Baseline\Base_1.log  
  log type: text  
  closed on: 6 Jun 2006, 12:03:09
```

Replicate McConnell et al. (2003, Table 1)

```
log: P:\NIDDK\MTOPS\Baseline\Base_2.log
log type: text
opened on: 6 Jun 2006, 13:29:26
```

```
. use "P:\NIDDK\MTOPS\Baseline\baseline_copy.dta", clear

. label define drug 1"Placebo" 2"Doxazosin" 3"Finasteride" 4"Combination"

. label values drug drug

. label define race_eth1 1"White" 2"Black" 3"Asian" 4"Hispanic" 5"Native
American"

. label values sgirace race_eth1

.

. generate race_eth = sgirace

. replace race_eth=3 if sgirace == 4
(223 real changes made)

. replace race_eth=4 if sgirace == 3
(41 real changes made)

. replace race_eth=4 if sgirace == 5
(4 real changes made)

. label define race_eth2 1"White" 2"Black" 3"Hispanic" 4"Other"

. label values race_eth race_eth2

.

. tab race_eth sgirace
```

race_eth	White	Black	Asian	Hispanic	Native Am	Total
White	2,509	0	0	0	0	2,509
Black	0	270	0	0	0	270
Hispanic	0	0	0	223	0	223
Other	0	0	41	0	4	45
Total	2,509	270	41	223	4	3,047

```
. tab race_eth drug, row
```

Key
frequency
row percentage

race_eth	treatment group				Total
	Placebo	Doxazosin	Finasteri	Combinati	
White	607 24.19	624 24.87	643 25.63	635 25.31	2,509 100.00
Black	67 24.81	65 24.07	61 22.59	77 28.52	270 100.00
Hispanic	52 23.32	57 25.56	47 21.08	67 30.04	223 100.00
Other	11 24.44	10 22.22	17 37.78	7 15.56	45 100.00
Total	737 24.19	756 24.81	768 25.21	786 25.80	3,047 100.00

. tab drug study

treatment group	pilot/full scale		Total
	1	2	
Placebo	27	710	737
Doxazosin	28	728	756
Finasteride	29	739	768
Combination	32	754	786
Total	116	2,931	3,047

. sort drug

. describe age qssadd vummxfr tugev vumpvr yspsah sscrc

variable name	storage type	display format	value label	variable label
age	byte	%8.0g		age at screening visit 1
qssadd	byte	%8.0g		aua symptom score - q01
vummxfr	float	%9.0g		uroflow-maximum flow rate - b03
tugev	float	%9.0g		tot gland-ellipsoid volume - p01
vumpvr	int	%8.0g		uroflow-post void residual - b03
yspsah	float	%9.0g		psa - hybritech - d01
sscrc	float	%9.0g		ser chem-creatinine - b02

. summarize age qssadd vummxfr tugev vumpvr yspsah sscrc

Variable	Obs	Mean	Std. Dev.	Min	Max
age	3047	62.61405	7.327399	50	89
qssadd	3047	16.92714	5.903131	8	35
vummxfr	3045	10.46617	2.58756	4	15.3
tugev	3041	36.32068	20.11169	6.1	185
vumpvr	3041	68.09701	82.92447	0	789
yspsah	3047	2.35914	2.083365	.2	10.5
sscrc	3047	1.06321	.1845705	.1	2

. centile age qssadd vummxfr tugev vumpvr yspsah sscrc

Variable	Obs	Percentile	Centile	-- Binom. Interp. -- [95% Conf. Interval]	
age	3047	50	62	62	63
qssadd	3047	50	17	16	17
vummxfr	3045	50	10.6	10.4	10.7
tugev	3041	50	31	30.2	31.7
vumpvr	3041	50	39	37	42
yspsah	3047	50	1.6	1.5	1.6
sscrc	3047	50	1	1	1.1

. by drug: summarize age qssadd vummxfr tugev vumpvr yspsah sscrc

-> drug = Placebo

Variable	Obs	Mean	Std. Dev.	Min	Max
age	737	62.51425	7.580017	50	89
qssadd	737	16.83039	5.980925	8	30
vummxfr	737	10.4517	2.661241	4	15
tugev	737	35.15875	18.88913	8.1	181
vumpvr	735	69.62041	82.13675	0	535
yspsah	737	2.329172	2.088375	.2	10
sscrc	737	1.064586	.1852059	.1	1.9

-> drug = Doxazosin

Variable	Obs	Mean	Std. Dev.	Min	Max
age	756	62.72222	7.299974	50	85
qssadd	756	16.95238	5.85026	8	30
vummxfr	756	10.30913	2.587153	4.2	15
tugev	756	36.87593	21.60929	6.1	155.6
vumpvr	754	69.21751	88.25317	0	789
yspsah	756	2.407937	2.166351	.2	10
sscrc	756	1.062169	.1713911	.6	2

-> drug = Finasteride

Variable	Obs	Mean	Std. Dev.	Min	Max
age	768	62.55078	7.327861	50	83
qssadd	768	17.13151	5.950876	8	30
vummxfr	768	10.51146	2.568031	4.1	15
tugev	765	36.85386	20.60795	9.3	170.3
vumpvr	767	66.16819	80.08525	0	694
yspsah	768	2.358724	2.104134	.2	10.5
sscrc	768	1.061068	.1817126	.4	1.7

-> drug = Combination

Variable	Obs	Mean	Std. Dev.	Min	Max
age	786	62.66539	7.121601	50	84
qssadd	786	16.79389	5.83866	8	35
vummxfr	784	10.58686	2.533307	4.1	15.3
tugev	783	36.35734	19.20915	7	185

vumpvr	785	67.47898	81.19863	0	517
yspsah	786	2.340712	1.97731	.2	9.7
ssccre	786	1.065013	.1987472	.2	1.9

. by drug: centile age qssadd vummxfr tugev vumpvr ypsah sscce

-> drug = Placebo

Variable	Obs	Percentile	Centile	-- Binom. Interp. -- [95% Conf. Interval]	
age	737	50	62	61	63
qssadd	737	50	17	16	17
vummxfr	737	50	10.6	10.3	10.7613
tugev	737	50	30.6	29	31.6
vumpvr	735	50	41	37	45
yspsah	737	50	1.5	1.4	1.7
ssccre	737	50	1.1	1	1.1

-> drug = Doxazosin

Variable	Obs	Percentile	Centile	-- Binom. Interp. -- [95% Conf. Interval]	
age	756	50	63	62	63
qssadd	756	50	17	16	17
vummxfr	756	50	10.35	10.1	10.6
tugev	756	50	31.15	29.7	32.74542
vumpvr	754	50	40	36	45
yspsah	756	50	1.6	1.4	1.7
ssccre	756	50	1.1	1	1.1

-> drug = Finasteride

Variable	Obs	Percentile	Centile	-- Binom. Interp. -- [95% Conf. Interval]	
age	768	50	62	61	63
qssadd	768	50	17	16	18
vummxfr	768	50	10.5	10.3	10.76656
tugev	765	50	31	29.5	33
vumpvr	767	50	39	33.85968	45
yspsah	768	50	1.5	1.4	1.7
ssccre	768	50	1	1	1.1

-> drug = Combination

Variable	Obs	Percentile	Centile	-- Binom. Interp. -- [95% Conf. Interval]	
age	786	50	63	62	63
qssadd	786	50	16	16	17
vummxfr	784	50	10.7	10.5	11
tugev	783	50	31.4	30.1	32.8
vumpvr	785	50	39	35	44.46607
yspsah	786	50	1.6	1.5	1.7
ssccre	786	50	1	1	1.1

.

end of do-file

ATTACHMENT 4

STATA 8/SE Code and Output for
FOLLOWUP Tabulations from MTOPS Dataset in NIDDK
Repository

log: C:\NIDDK\MTOPS\Integrity\Analysis\FU_Analyses.log
log type: text
opened on: 5 Jul 2006, 08:24:51

```
.  
. * QUESTION: Why do we have 6 cases without dates for Major, Std, or Record 10 dates  
?  
. ***  
. *** FIRST, get dates for last visit for Major FU, Standard FU, ***  
. *** date recorded on R10 form for last visit if lost to FU, ***  
. *** PLUS date of Screening Visits 1 and 2 ***  
. *** ***  
. *** 1-A Date of Last STANDARD Follow Up ***  
. use "C:\NIDDK\MTOPS\SAS db\F Forms\F01\FILES\f011.dta", clear  
  
. merge using "C:\NIDDK\MTOPS\SAS db\F Forms\F01\FILES\f012.dta"  
fviwk was byte now int  
fcmcona was str23 now str29  
fcmconc was str24 now str27  
fcmcond was str23 now str32  
fcmcone was str39 now str47  
  
. drop _merge  
  
. merge using "C:\NIDDK\MTOPS\SAS db\F Forms\F01\FILES\f013.dta"  
fcmcona was str29 now str36  
fcmconc was str27 now str47  
fcmcond was str32 now str39  
fcmconf was str27 now str39  
fcmcong was str28 now str47  
fcmconi was str17 now str33  
fcmconj was str18 now str47  
fumtmf was byte now int  
  
. drop _merge  
  
. merge using "C:\NIDDK\MTOPS\SAS db\F Forms\F01\FILES\f014.dta"  
fcmcond was str39 now str47  
  
. drop _merge  
  
. sort idnum fvstdt  
  
. generate IDnext = idnum[_n +1]  
(1 missing value generated)  
  
. replace IDnext = "9999" if _n ==_N  
(1 real change made)  
  
. drop if idnum == IDnext  
(26655 observations deleted)  
  
. rename fvstdt StdFU_Date  
  
. label var StdFU_Date "Date of last Standard FU Visit"  
  
. rename fviwk StdFU_Week  
  
. label var StdFU_Week "Week of last Standard FU Visit"
```

```
. keep idnum StdFU_Date StdFU_Week
```

```
. sort idnum
```

```
. describe , short
```

```
Contains data from C:\NIDDK\MTOPS\SAS db\F Forms\F01\FILES\f011.dta
```

```
obs:          2,933
```

```
vars:         3
```

```
size:        41,062 (99.9% of memory free)
```

```
Sorted by:  idnum
```

```
Note: dataset has changed since last saved
```

```
. save "C:\NIDDK\MTOPS\Integrity\Analysis\LastStdFU.dta", replace  
file C:\NIDDK\MTOPS\Integrity\Analysis\LastStdFU.dta saved
```

```
.
```

```
.
```

```
. *** 1-B Date of Last Major Follow Up
```

```
***
```

```
.
```

```
. use "C:\NIDDK\MTOPS\SAS db\F Forms\F02\FILES\f022.dta", clear
```

```
. merge using "C:\NIDDK\MTOPS\SAS db\F Forms\F02\FILES\f021.dta"
```

```
. drop _merge
```

```
. sort idnum jvstdt
```

```
. generate IDnext = idnum[_n +1]  
(1 missing value generated)
```

```
. replace IDnext = "9999" if _n ==_N  
(1 real change made)
```

```
. drop if idnum == IDnext  
(9841 observations deleted)
```

```
. rename jvstdt MajorFU_Date
```

```
. label var MajorFU_Date "Date of last Major FU Visit"
```

```
. rename jviwk MajorFU_Week
```

```
. label var MajorFU_Week "Week of last Major FU Visit"
```

```
. keep idnum MajorFU_Date MajorFU_Week
```

```
. sort idnum
```

```
. describe , short
```

```
Contains data from C:\NIDDK\MTOPS\SAS db\F Forms\F02\FILES\f022.dta
```

```
obs:          2,908
```

```
vars:         3
```

```
size:        40,712 (99.9% of memory free)
```

```
Sorted by:  idnum
```

```
Note: dataset has changed since last saved
```

```
. save "C:\NIDDK\MTOPS\Integrity\Analysis\LastMajorFU.dta", replace  
file C:\NIDDK\MTOPS\Integrity\Analysis\LastMajorFU.dta saved
```

```
. * pause
```

```

.
. *** 1-C Date of Last Follow Up for Ss lost to FU from R10 form ***
.
. use "C:\niddk\mtops\SAS db\R Forms\R10\FILES\r101.dta", clear
. rename svstdt LastVisit_R10record
. keep idnum LastVisit_R10record
. sort idnum
. describe , short

Contains data from C:\niddk\mtops\SAS db\R Forms\R10\FILES\r101.dta
  obs:          404
  vars:          2
  size:         4,848 (99.9% of memory free)
Sorted by:  idnum
  Note:  dataset has changed since last saved

. save "C:\NIDDK\MTOPS\Integrity\Analysis\Last_R10,dta", replace
file C:\NIDDK\MTOPS\Integrity\Analysis\Last_R10,dta.dta saved

.
.
. *** 1-D MERGE records for Major, Standard, R10FU Dates ***
.
. use "C:\NIDDK\MTOPS\Integrity\Analysis\Last_R10,dta", clear
. sort idnum
. merge idnum using "C:\NIDDK\MTOPS\Integrity\Analysis\LastStdFU.dta"
. drop _merge
. sort idnum
. merge idnum using "C:\NIDDK\MTOPS\Integrity\Analysis\LastMajorFU.dta"
. drop _merge
. sort idnum

.
. describe , short

Contains data from C:\NIDDK\MTOPS\Integrity\Analysis\Last_R10,dta.dta
  obs:          3,041
  vars:          6          5 Jul 2006 08:24
  size:         72,984 (99.9% of memory free)
Sorted by:  idnum
  Note:  dataset has changed since last saved

. save "C:\NIDDK\MTOPS\Integrity\Analysis\Visit_Dates.dta", replace
file C:\NIDDK\MTOPS\Integrity\Analysis\Visit_Dates.dta saved

.
. ***
.
. *** SECOND, generate dates for OUTCOME events ***
. ***          Invasive Therapy, AUA 4 pt. rise from Baseline, ***
. ***          Progression of BPH, Urinary Events ***
***

```



```

. ***
                                ***
.
. *** 2-A MERGE the 5 versions of Clinical Review Record ***
.
. use "C:\NIDDK\MTOPS\SAS db\R Forms\R02\Files\r025.dta", clear
. append using "C:\NIDDK\MTOPS\SAS db\R Forms\R02\Files\r021.dta"
. append using "C:\NIDDK\MTOPS\SAS db\R Forms\R02\Files\r022.dta"
. append using "C:\NIDDK\MTOPS\SAS db\R Forms\R02\Files\r023.dta"
wtnxox was str36 now str42
. append using "C:\NIDDK\MTOPS\SAS db\R Forms\R02\Files\r024.dta"
. tab vers

```

form version	Freq.	Percent	Cum.
1	3	0.12	0.12
2	36	1.47	1.59
3	82	3.35	4.94
4	62	2.53	7.47
5	2,266	92.53	100.00
Total	2,449	100.00	

```

.
. label define endpoint 1 "Death" 2 "AUA rise" 3 "Creat Rise" 4 "Urinary Evt"
5 "NonCompl" 6 "Inactive FU" 7 "Invasive Rx" 8 "
> Xover Open Label Rx"
. label define types 0 "None" 1 "Retention" 2 "U Infection" 3 "Incontinence"
. label values wuetyt types
. label values wclass endpoint
. tab1 wclass wuetyt

```

-> tabulation of wclass

classification for patient	Freq.	Percent	Cum.
Death	127	5.19	5.19
AUA rise	275	11.23	16.41
Urinary Evt	77	3.14	19.56
NonCompl	1,139	46.51	66.07
Inactive FU	324	13.23	79.30
Invasive Rx	256	10.45	89.75
Xover Open Label Rx	251	10.25	100.00
Total	2,449	100.00	

-> tabulation of wuetyt

urin-type of event	Freq.	Percent	Cum.
Retention	41	53.25	53.25

U Infection	5	6.49	59.74
Incontinence	31	40.26	100.00

Total	77	100.00	

```
.
. ***
. *** ---> NOTE, no confirmed creatinine rise events <---
. ***
```

```
. generate AUArise_1=wssiev - wssbas
(2174 missing values generated)
```

```
. generate AUArise_2=wsscev - wssbas
(2174 missing values generated)
```

```
. tab1 AUArise_1 AUArise_2
```

```
-> tabulation of AUArise_1
```

AUArise_1	Freq.	Percent	Cum.
4	56	20.36	20.36
5	54	19.64	40.00
6	41	14.91	54.91
7	36	13.09	68.00
8	25	9.09	77.09
9	15	5.45	82.55
10	13	4.73	87.27
11	13	4.73	92.00
12	5	1.82	93.82
13	6	2.18	96.00
14	2	0.73	96.73
15	3	1.09	97.82
16	3	1.09	98.91
17	2	0.73	99.64
18	1	0.36	100.00
Total	275	100.00	

```
-> tabulation of AUArise_2
```

AUArise_2	Freq.	Percent	Cum.
4	72	26.18	26.18
5	49	17.82	44.00
6	47	17.09	61.09
7	22	8.00	69.09
8	27	9.82	78.91
9	19	6.91	85.82
10	9	3.27	89.09
11	13	4.73	93.82
12	5	1.82	95.64
13	3	1.09	96.73
14	3	1.09	97.82
16	1	0.36	98.18
17	1	0.36	98.55
19	3	1.09	99.64
21	1	0.36	100.00
Total	275	100.00	

```
. describe , short
```

```

Contains data from C:\NIDDK\MTOPS\SAS db\R Forms\R02\Files\r025.dta
  obs:          2,449
  vars:          70
  size:    1,089,805 (99.7% of memory free)
Sorted by:
  Note:  dataset has changed since last saved

```

```

. save "C:\NIDDK\MTOPS\Integrity\Analysis\R02_merged.dta", replace
file C:\NIDDK\MTOPS\Integrity\Analysis\R02_merged.dta saved

```

```

.
.
. *** 2-B Get Date of DEATH
  ***

```

```

. drop if wclass ~= 1
(2322 observations deleted)

```

```

. tab wclass

```

classification for patient	Freq.	Percent	Cum.
Death	127	100.00	100.00
Total	127	100.00	

```

. generate death=1
. rename wddate D_date
. keep idnum death D_date
. sort idnum
. describe , short

```

```

Contains data from C:\NIDDK\MTOPS\Integrity\Analysis\R02_merged.dta
  obs:          127
  vars:          3                    5 Jul 2006 08:24
  size:    2,032 (99.9% of memory free)
Sorted by:  idnum
  Note:  dataset has changed since last saved

```

```

. save "C:\NIDDK\MTOPS\Integrity\Analysis\deaths.dta", replace
file C:\NIDDK\MTOPS\Integrity\Analysis\deaths.dta saved

```

```

.
. *** 2-C Get Date of AUA Score rise
  ***

```

```

. use "C:\NIDDK\MTOPS\Integrity\Analysis\R02_merged.dta", clear
. drop if wclass ~= 2
(2174 observations deleted)

```

```

. tab wclass

```

classification for patient	Freq.	Percent	Cum.
AUA rise	275	100.00	100.00

Total | 275 100.00

```
. generate AUA=1

. rename wssevdt AUA_date

. keep idnum AUA AUA_date

. *
. * Keep ONLY the first event
. *
. sort idnum AUA_date

. generate IDprevious = idnum[_n -1]
(1 missing value generated)

. replace IDprevious = "9999" if _n ==1
(1 real change made)

. drop if idnum == IDprevious
(1 observation deleted)

. describe , short
```

```
Contains data from C:\NIDDK\MTOPS\Integrity\Analysis\R02_merged.dta
  obs:          274
  vars:          4          5 Jul 2006 08:24
  size:        5,480 (99.9% of memory free)
Sorted by:  idnum AUA_date
  Note:  dataset has changed since last saved
```

```
. save "C:\NIDDK\MTOPS\Integrity\Analysis\AUA.dta", replace
file C:\NIDDK\MTOPS\Integrity\Analysis\AUA.dta saved
```

```
.
. *** 2-B Get Date of CREATININE Rise
  ***
.
. use "C:\NIDDK\MTOPS\Integrity\Analysis\R02_merged.dta", clear

. drop if wclass ~= 3
(2449 observations deleted)

. tab wclass
no observations

. generate CRrise=1

. rename wcriev CR_date

. *
. * Keep ONLY the first event
. *
. keep idnum CRrise CR_date

. sort idnum CR_date

. generate IDprevious = idnum[_n -1]

. replace IDprevious = "9999" if _n ==1
(0 real changes made)

. drop if idnum == IDprevious
```

(0 observations deleted)

. describe , short

Contains data from C:\NIDDK\MTOPS\Integrity\Analysis\R02_merged.dta

obs: 0
vars: 4 5 Jul 2006 08:24
size: 0 (100.0% of memory free)

Sorted by: idnum CR_date

Note: dataset has changed since last saved

. save "C:\NIDDK\MTOPS\Integrity\Analysis\CR.dta", replace
(note: dataset contains 0 observations)

file C:\NIDDK\MTOPS\Integrity\Analysis\CR.dta saved

.

. *** 2-B Get Date of URINARY EVENT

.

. use "C:\NIDDK\MTOPS\Integrity\Analysis\R02_merged.dta", clear

. drop if wclass ~= 4

(2372 observations deleted)

. tab wclass

classification for patient	Freq.	Percent	Cum.
Urinary Evt	77	100.00	100.00
Total	77	100.00	

. generate URevent=1

. rename wueevdt UR_date

. rename wuetyt UR_Type

. label values UR_Type types

. keep idnum URevent UR_Type UR_date

. *

. * Keep ONLY the first event

. * BUT make sure that we haven't dropped multiple TYPES

. *

. tab UR_Type

urin-type of event	Freq.	Percent	Cum.
Retention	41	53.25	53.25
U Infection	5	6.49	59.74
Incontinence	31	40.26	100.00
Total	77	100.00	

. sort idnum UR_date

. generate IDprevious = idnum[_n -1]

(1 missing value generated)

```
. replace IDprevious = "9999" if _n ==1
(1 real change made)
```

```
. drop if idnum == IDprevious
(0 observations deleted)
```

```
. tab UR_Type
```

urin-type of event	Freq.	Percent	Cum.
Retention	41	53.25	53.25
U Infection	5	6.49	59.74
Incontinence	31	40.26	100.00
Total	77	100.00	

```
. describe , short
```

```
Contains data from C:\NIDDK\MTOPS\Integrity\Analysis\R02_merged.dta
obs:          77
vars:          5          5 Jul 2006 08:24
size:         1,617 (99.9% of memory free)
Sorted by:   idnum UR_date
Note: dataset has changed since last saved
```

```
. save "C:\NIDDK\MTOPS\Integrity\Analysis\UR.dta", replace
file C:\NIDDK\MTOPS\Integrity\Analysis\UR.dta saved
```

```
.
. *** 2-B Get Date of INVASIVE PROCEDURE
***
```

```
. use "C:\NIDDK\MTOPS\Integrity\Analysis\R02_merged.dta", clear
```

```
. drop if wclass ~= 7
(2193 observations deleted)
```

```
. tab1 wclass wctit
```

```
-> tabulation of wclass
```

classification for patient	Freq.	Percent	Cum.
Invasive Rx	256	100.00	100.00
Total	256	100.00	

```
-> tabulation of wctit
```

xover-specify invasive therapy	Freq.	Percent	Cum.
1	77	30.08	30.08
2	5	1.95	32.03
3	74	28.91	60.94
4	7	2.73	63.67
5	4	1.56	65.23
6	8	3.13	68.36
7	3	1.17	69.53
9	78	30.47	100.00

```
-----+-----
Total |      256      100.00
```

```
.
. generate X_InvasiveRX=1

. rename wctevdt XInvasive_date

. rename wctit      XInvasive_type

. label define XInvasive_type 0"None" 1"TURP" 2"UIIP" 3"Radical Prstctmy" 4"Open
Prstctmy" 5"TUNA" 6"Microwave" 7"Laser"
> 8"Stent" 9"Other"
```

```
. label values XInvasive_type XInvasive_type

. keep idnum X_InvasiveRX XInvasive_date XInvasive_type wctitx
```

```
. *
. * Keep ONLY the first event
. *
. sort idnum XInvasive_date
```

```
. generate IDprevious = idnum[_n -1]
(1 missing value generated)
```

```
. replace IDprevious = "9999" if _n ==1
(1 real change made)
```

```
. drop if idnum == IDprevious
(4 observations deleted)
```

```
. describe , short
```

```
Contains data from C:\NIDDK\MTOPS\Integrity\Analysis\R02_merged.dta
  obs:          252
  vars:           6          5 Jul 2006 08:24
  size:        17,640 (99.9% of memory free)
Sorted by:  idnum  XInvasive_date
  Note:  dataset has changed since last saved
```

```
. save "C:\NIDDK\MTOPS\Integrity\Analysis\XInvasive.dta", replace
file C:\NIDDK\MTOPS\Integrity\Analysis\XInvasive.dta saved
```

```
.
.
*****
****
. ***
***
. ***  THIRD, merge these EVENT DATE Files with BASELINE File and VISIT DATE Files
***
. ***
***
```

```
.
*****
****
```

```
. use "C:\NIDDK\MTOPS\Baseline\baseline_copy.dta", clear
```

```
. sort idnum
```

```
. merge idnum using "C:\NIDDK\MTOPS\Integrity\Analysis\deaths.dta"
```

```

. replace death=0 if death==.
(2920 real changes made)

. drop _merge

.

. sort idnum

. merge idnum using "C:\NIDDK\MTOPS\Integrity\Analysis\AUA.dta"

. replace AUA=0 if AUA==.
(2773 real changes made)

. drop _merge

.

. sort idnum

. merge idnum using "C:\NIDDK\MTOPS\Integrity\Analysis\CR.dta"

. replace CRrise=0 if CRrise==.
(3047 real changes made)

. drop _merge

.

. sort idnum

. merge idnum using "C:\NIDDK\MTOPS\Integrity\Analysis\UR.dta"

. replace URevent =0 if URevent==.
(2970 real changes made)

. replace UR_Type=0 if URevent==0
(2970 real changes made)

. drop _merge

.

. sort idnum

. merge idnum using "C:\NIDDK\MTOPS\Integrity\Analysis\XInvasive.dta"

. label define drug 1"Placebo" 2"Doxazosin" 3"Finasteride" 4"Combination"

. label values drug drug

. replace X_InvasiveRX=0 if X_InvasiveRX==.
(2795 real changes made)

. replace XInvasive_type=0 if XInvasive_type==.
(2795 real changes made)

.

. drop _merge

.

. sort idnum

. merge idnum using "C:\NIDDK\MTOPS\Integrity\Analysis\Visit_Dates.dta"

. drop _merge

```



```
. sort idnum
```

```
. describe , short
```

```
Contains data from C:\NIDDK\MTOPS\Baseline\baseline_copy.dta
```

```
obs:          3,047
```

```
vars:         431
```

```
size:        4,320,646 (98.6% of memory free)
```

```
Sorted by:  idnum
```

```
Note: dataset has changed since last saved
```

```
. save "C:\NIDDK\MTOPS\Integrity\Analysis\Base_FU_EVENTS.dta", replace  
file C:\NIDDK\MTOPS\Integrity\Analysis\Base_FU_EVENTS.dta saved
```

```
.  
. * tab1 death D_date AUA AUA_date CRrise CR_date URevent UR_Type UR_date  
. tab drug death, row
```

```
+-----+  
| Key |  
+-----+  
| frequency |  
| row percentage |  
+-----+
```

treatment group	death		Total
	0	1	
Placebo	706 95.79	31 4.21	737 100.00
Doxazosin	734 97.09	22 2.91	756 100.00
Finasteride	730 95.05	38 4.95	768 100.00
Combination	750 95.42	36 4.58	786 100.00
Total	2,920 95.83	127 4.17	3,047 100.00

```
. tab drug AUA, row
```

```
+-----+  
| Key |  
+-----+  
| frequency |  
| row percentage |  
+-----+
```

treatment group	AUA		Total
	0	1	
Placebo	637 86.43	100 13.57	737 100.00
Doxazosin	697 92.20	59 7.80	756 100.00
Finasteride	694	74	768

	90.36	9.64	100.00
Combination	745	41	786
	94.78	5.22	100.00
Total	2,773	274	3,047
	91.01	8.99	100.00

. tab drug CRrise, row

Key
frequency
row percentage

treatment group	CRrise	
	0	Total
Placebo	737	737
	100.00	100.00
Doxazosin	756	756
	100.00	100.00
Finasteride	768	768
	100.00	100.00
Combination	786	786
	100.00	100.00
Total	3,047	3,047
	100.00	100.00

. tab drug UR_Type, row

Key
frequency
row percentage

treatment group	urin-type of event				Total
	None	Retention	U Infecti	Incontine	
Placebo	709	18	2	8	737
	96.20	2.44	0.27	1.09	100.00
Doxazosin	730	13	2	11	756
	96.56	1.72	0.26	1.46	100.00
Finasteride	753	6	0	9	768
	98.05	0.78	0.00	1.17	100.00
Combination	778	4	1	3	786
	98.98	0.51	0.13	0.38	100.00
Total	2,970	41	5	31	3,047
	97.47	1.35	0.16	1.02	100.00

```
. tab drug X_InvasiveRX, row
```

```
+-----+
| Key |
+-----+
| frequency |
| row percentage |
+-----+
```

treatment group	X_InvasiveRX		Total
	0	1	
Placebo	663 89.96	74 10.04	737 100.00
Doxazosin	683 90.34	73 9.66	756 100.00
Finasteride	726 94.53	42 5.47	768 100.00
Combination	723 91.98	63 8.02	786 100.00
Total	2,795 91.73	252 8.27	3,047 100.00

```
.
. ***
. ***   Get LATEST date of Major FU, Standard FU, and R-10 FU   ***
. ***
.
. generate latest= 99

. replace latest = 1 if MajorFU_Week > StdFU_Week
(2720 real changes made)

. replace latest = 1 if MajorFU_Week == StdFU_Week
(120 real changes made)

. replace latest = 2 if MajorFU_Week < StdFU_Week
(207 real changes made)

. replace latest = 1 if MajorFU_Week~=. & StdFU_Week==.
(71 real changes made)

. replace latest = 2 if MajorFU_Week==. & StdFU_Week~=.
(96 real changes made)

. replace latest = 0 if MajorFU_Week==. & StdFU_Week==. & LastVisit_R10record ==.
(6 real changes made)

. replace latest = 3 if LastVisit_R10record ~=.
(404 real changes made)

. label var latest "Last visit"

. label define latest 1"Major FU" 2"Standard FU" 3"Record 10" 0"Missing All 3"

. label values latest latest
```

```
. tab latest
```

Last visit	Freq.	Percent	Cum.
Missing All 3	6	0.20	0.20
Major FU	2,555	83.85	84.05
Standard FU	82	2.69	86.74
Record 10	404	13.26	100.00
Total	3,047	100.00	

```
. list idnum latest rvstdd StdFU_Week MajorFU_Week LastVisit_R10record if latest==0
```

	idnum	latest	rvstdd	StdFU_Week	MajorFU_Week	LastVisit_R10record
235.	0235	Missing All 3	08 Mar 96	.	.	.
1131.	1131	Missing All 3	19 Jul 96	.	.	.
1670.	1670	Missing All 3	08 Apr 96	.	.	.
2320.	2320	Missing All 3	11 Dec 96	.	.	.
2338.	2338	Missing All 3	22 May 97	.	.	.
2940.	2940	Missing All 3	31 Jul 96	.	.	.

```
.
. *
. * Turn R10 date into WEEKS
. *
.
. generate R10_WeekFloat = (LastVisit_R10record - rvstdd)/7
(2643 missing values generated)

. generate R10_Week = round(R10_WeekFloat)
(2643 missing values generated)

. list idnum LastVisit_R10record rvstdd R10_Week if latest==3 & _n<100
```

	idnum	LastVisit_R10record	rvstdd	R10_Week
28.	0028	17 Mar 97	14 Jun 96	39
29.	0029	14 Jun 01	22 Mar 96	273
42.	0042	10 Nov 97	13 May 96	78
43.	0043	23 Jun 97	04 Oct 96	37
45.	0045	25 Nov 97	26 Jun 96	74
50.	0050	20 Aug 01	07 Mar 96	285
55.	0055	07 Sep 00	05 Mar 98	131
64.	0064	07 Jun 01	20 Mar 97	220
67.	0067	30 Apr 01	01 Apr 96	265
68.	0068	28 Aug 01	19 Mar 97	232
72.	0072	13 Feb 97	23 May 96	38
80.	0080	09 Oct 00	26 Mar 96	237
94.	0094	10 Jul 98	17 Jul 96	103
97.	0097	31 Aug 01	13 Feb 97	237

```
. generate END = 9999

. replace END = MajorFU_Week if latest==1
(2555 real changes made)
```

```
. replace END = StdFU_Week if latest==2
(82 real changes made)
```

```
. replace END = R10_Week if latest==3
(404 real changes made)
```

```
. list idnum latest rvstdt StdFU_Week StdFU_Date MajorFU_Week MajorFU_Week
LastVisit_R10record R10_Week if END==9999
```

```
-----+
-----+
      | idnum      latest      rvstdt   StdFU_~k   StdFU_~e   MajorF~k   MajorF~k
LastVi~d   R10_Week |
-----+
-----+
235. | 0235   Missing All 3   08 Mar 96           .           .           .           .
.     | .       .       |
1131. | 1131   Missing All 3   19 Jul 96           .           .           .           .
.     | .       .       |
1670. | 1670   Missing All 3   08 Apr 96           .           .           .           .
.     | .       .       |
2320. | 2320   Missing All 3   11 Dec 96           .           .           .           .
.     | .       .       |
2338. | 2338   Missing All 3   22 May 97           .           .           .           .
.     | .       .       |
-----+
-----+
2940. | 2940   Missing All 3   31 Jul 96           .           .           .           .
.     | .       .       |
-----+
-----+

```

```
.
. ** ASSUME NO FOLLOWUP IF NO MAJOR, STANDARD OR R10 RECORDS **
.
```

```
. replace END = 0 if latest==0
(6 real changes made)
```

```
. generate END_collapsed = END
```

```
. replace END_collapsed=1 if END>0 & END <100
(204 real changes made)
```

```
. replace END_collapsed=100 if END>99 & END <200
(423 real changes made)
```

```
. replace END_collapsed=225 if END>199 & END <300
(2282 real changes made)
```

```
. replace END_collapsed=300 if END>299
(96 real changes made)
```

```
. label define END_collapsed 1"1-99" 100"100-199" 225"225-299" 300"300+"
```

```
. label values END_collapsed END_collapsed
```

```
. list idnum latest END END_collapsed StdFU_Week MajorFU_Week R10_Week if _n<51
```

```
-----+
-----+
```

	idnum	latest	END	END_co~d	StdFU_~k	MajorF~k	R10_Week
1.	0001	Major FU	263	225-299	156	263	.
2.	0002	Major FU	247	225-299	143	247	.
3.	0003	Major FU	260	225-299	158	260	.
4.	0004	Major FU	260	225-299	157	260	.
5.	0005	Major FU	210	225-299	114	210	.
6.	0006	Major FU	209	225-299	120	209	.
7.	0007	Major FU	259	225-299	181	259	.
8.	0008	Major FU	209	225-299	131	209	.
9.	0009	Major FU	265	225-299	194	265	.
10.	0010	Major FU	260	225-299	169	260	.
11.	0011	Major FU	208	225-299	116	208	.
12.	0012	Major FU	208	225-299	104	208	.
13.	0013	Major FU	261	225-299	181	261	.
14.	0014	Major FU	260	225-299	156	260	.
15.	0015	Major FU	235	225-299	130	235	.
16.	0016	Major FU	265	225-299	170	265	.
17.	0017	Major FU	169	100-199	117	169	.
18.	0018	Major FU	182	100-199	92	182	.
19.	0019	Major FU	195	100-199	90	195	.
20.	0020	Major FU	208	225-299	116	208	.
21.	0021	Major FU	210	225-299	103	210	.
22.	0022	Major FU	213	225-299	117	213	.
23.	0023	Major FU	197	100-199	104	197	.
24.	0024	Major FU	261	225-299	180	261	.
25.	0025	Major FU	222	225-299	131	222	.
26.	0026	Major FU	209	225-299	102	209	.
27.	0027	Major FU	288	225-299	182	288	.
28.	0028	Record 10	39	1-99	40	.	39
29.	0029	Record 10	273	225-299	195	260	273
30.	0030	Major FU	262	225-299	157	262	.
31.	0031	Major FU	286	225-299	181	286	.
32.	0032	Major FU	208	225-299	106	208	.
33.	0033	Major FU	210	225-299	119	210	.
34.	0034	Major FU	249	225-299	143	249	.
35.	0035	Major FU	210	225-299	183	210	.
36.	0036	Major FU	211	225-299	133	211	.
37.	0037	Major FU	209	225-299	130	209	.
38.	0038	Major FU	261	225-299	157	261	.
39.	0039	Standard FU	116	100-199	116	106	.
40.	0040	Major FU	261	225-299	195	261	.
41.	0041	Major FU	241	225-299	130	241	.
42.	0042	Record 10	78	1-99	65	52	78
43.	0043	Record 10	37	1-99	38	.	37
44.	0044	Major FU	235	225-299	129	235	.
45.	0045	Record 10	74	1-99	64	51	74
46.	0046	Major FU	205	225-299	103	205	.
47.	0047	Major FU	391	300+	286	391	.
48.	0048	Major FU	262	225-299	171	262	.
49.	0049	Major FU	233	225-299	130	233	.
50.	0050	Record 10	285	225-299	197	285	285

```
. tab latest
```

Last visit	Freq.	Percent	Cum.
Missing All 3	6	0.20	0.20
Major FU	2,555	83.85	84.05
Standard FU	82	2.69	86.74
Record 10	404	13.26	100.00
Total	3,047	100.00	

```
. list idnum latest if latest==0
```

	idnum	latest
235.	0235	Missing All 3
1131.	1131	Missing All 3
1670.	1670	Missing All 3
2320.	2320	Missing All 3
2338.	2338	Missing All 3
2940.	2940	Missing All 3

```
.  
. save "C:\NIDDK\MTOPS\Integrity\Analysis\Base_FU_EVENTS.dta", replace  
file C:\NIDDK\MTOPS\Integrity\Analysis\Base_FU_EVENTS.dta saved
```

```
.  
. * #####  
. *  
. * For comparison, we also scan E forms so that we can re-check  
. * our results and detect any discrepancies.  
. *  
. * #####
```

```
. use "C:\NIDDK\mtops\SAS db\E Forms\E01\e012.dta", clear
```

```
. append using "C:\NIDDK\mtops\SAS db\E Forms\E01\e011.dta"
```

```
. drop if ac4dec~=1  
(780 observations deleted)
```

```
. tab1 ai4ss ai4grt ac4grt aivwk ac4dec
```

```
-> tabulation of ai4ss
```

init-sympto m score	Freq.	Percent	Cum.
12	1	0.37	0.37
13	8	2.93	3.30
14	7	2.56	5.86
15	9	3.30	9.16
16	15	5.49	14.65
17	18	6.59	21.25
18	15	5.49	26.74
19	22	8.06	34.80
20	17	6.23	41.03
21	20	7.33	48.35
22	21	7.69	56.04
23	17	6.23	62.27

24	16	5.86	68.13
25	17	6.23	74.36
26	15	5.49	79.85
27	8	2.93	82.78
28	4	1.47	84.25
29	7	2.56	86.81
30	12	4.40	91.21
31	10	3.66	94.87
32	4	1.47	96.34
33	4	1.47	97.80
34	3	1.10	98.90
35	3	1.10	100.00

Total	273	100.00	

-> tabulation of ai4grt

init->= 4+baseline ?	Freq.	Percent	Cum.

1	273	100.00	100.00

Total	273	100.00	

-> tabulation of ac4grt

conf->= 4+baseline ?	Freq.	Percent	Cum.

1	273	100.00	100.00

Total	273	100.00	

-> tabulation of aivwk

init event-week of visit	Freq.	Percent	Cum.

11	1	0.37	0.37
12	6	2.20	2.56
13	11	4.03	6.59
14	5	1.83	8.42
15	2	0.73	9.16
22	2	0.73	9.89
23	1	0.37	10.26
24	1	0.37	10.62
25	3	1.10	11.72
26	15	5.49	17.22
27	2	0.73	17.95
28	1	0.37	18.32
37	1	0.37	18.68
38	11	4.03	22.71
39	6	2.20	24.91
40	5	1.83	26.74
41	1	0.37	27.11
42	1	0.37	27.47
43	1	0.37	27.84
45	1	0.37	28.21
51	9	3.30	31.50
52	6	2.20	33.70

53	3	1.10	34.80
54	1	0.37	35.16
56	1	0.37	35.53
59	2	0.73	36.26
61	1	0.37	36.63
63	1	0.37	37.00
64	8	2.93	39.93
65	6	2.20	42.12
66	7	2.56	44.69
67	1	0.37	45.05
71	1	0.37	45.42
76	2	0.73	46.15
77	8	2.93	49.08
78	6	2.20	51.28
79	4	1.47	52.75
80	1	0.37	53.11
90	4	1.47	54.58
91	4	1.47	56.04
92	1	0.37	56.41
93	2	0.73	57.14
94	1	0.37	57.51
95	1	0.37	57.88
98	1	0.37	58.24
100	1	0.37	58.61
102	1	0.37	58.97
103	4	1.47	60.44
104	7	2.56	63.00
105	3	1.10	64.10
106	1	0.37	64.47
107	3	1.10	65.57
108	1	0.37	65.93
115	1	0.37	66.30
116	4	1.47	67.77
117	4	1.47	69.23
118	3	1.10	70.33
119	2	0.73	71.06
127	1	0.37	71.43
129	1	0.37	71.79
130	3	1.10	72.89
131	1	0.37	73.26
132	1	0.37	73.63
138	1	0.37	73.99
139	1	0.37	74.36
142	1	0.37	74.73
143	7	2.56	77.29
144	3	1.10	78.39
155	1	0.37	78.75
156	1	0.37	79.12
157	2	0.73	79.85
158	1	0.37	80.22
162	1	0.37	80.59
163	1	0.37	80.95
166	1	0.37	81.32
168	1	0.37	81.68
169	7	2.56	84.25
174	1	0.37	84.62
175	1	0.37	84.98
180	1	0.37	85.35
182	2	0.73	86.08
183	1	0.37	86.45
189	1	0.37	86.81
191	1	0.37	87.18
195	1	0.37	87.55

196	4	1.47	89.01
206	1	0.37	89.38
208	4	1.47	90.84
209	1	0.37	91.21
210	2	0.73	91.94
211	1	0.37	92.31
220	2	0.73	93.04
221	3	1.10	94.14
223	1	0.37	94.51
224	1	0.37	94.87
234	1	0.37	95.24
235	1	0.37	95.60
236	2	0.73	96.34
243	1	0.37	96.70
248	1	0.37	97.07
249	1	0.37	97.44
250	1	0.37	97.80
260	2	0.73	98.53
261	1	0.37	98.90
274	2	0.73	99.63
359	1	0.37	100.00

Total	273	100.00	

-> tabulation of ac4dec

conf-event declared ?	Freq.	Percent	Cum.
1	273	100.00	100.00

Total	273	100.00	

. tab ac4dec if aivwk < 213

conf-event declared ?	Freq.	Percent	Cum.
1	252	100.00	100.00

Total	252	100.00	

. sort idnum

. summarize ac4dec ac4wk

Variable	Obs	Mean	Std. Dev.	Min	Max
ac4dec	273	1	0	1	1
ac4wk	273	100.3114	68.62276	14	363

. describe , short

Contains data from C:\NIDDK\mtops\SAS db\E Forms\E01\e012.dta
 obs: 273
 vars: 33
 size: 24,024 (99.9% of memory free)
 Sorted by: idnum
 Note: dataset has changed since last saved

. save "C:\NIDDK\MTOPS\Integrity\Analysis\E_AUA.dta", replace
 file C:\NIDDK\MTOPS\Integrity\Analysis\E_AUA.dta saved

```

.
. use "C:\niddk\mtops\SAS db\E Forms\E02\e022.dta", clear
. append using "C:\niddk\mtops\SAS db\E Forms\E02\e022.dta"
. tab1 ccvdec ccvdisc ccvgrt

```

-> tabulation of ccvdec

conf event-event declared ?	Freq.	Percent	Cum.
2	116	100.00	100.00
Total	116	100.00	

-> tabulation of ccvdisc

conf event-date meds discont	Freq.	Percent	Cum.
20 Aug 99	2	100.00	100.00
Total	2	100.00	

-> tabulation of ccvgrt

conf event->= 1.5 x baseline	Freq.	Percent	Cum.
1	44	44.90	44.90
2	54	55.10	100.00
Total	98	100.00	

```

.
. ***
. *** NOTE ----> No creatinine rise events on E-02 forms <----
. ***

```

```

. use "C:\niddk\mtops\SAS db\E Forms\E03\e033.dta", clear
. append using "C:\niddk\mtops\SAS db\E Forms\E03\e032.dta"
. append using "C:\niddk\mtops\SAS db\E Forms\E03\e031.dta"
. tab1 nardec nutdec nindec

```

-> tabulation of nardec

retent-even t declared ?	Freq.	Percent	Cum.
1	41	61.19	61.19
2	26	38.81	100.00
Total	67	100.00	

-> tabulation of nutdec

infect-uros epsis event declared	Freq.	Percent	Cum.
1	5	71.43	71.43
2	2	28.57	100.00
Total	7	100.00	

-> tabulation of nindec

incont-even t declared ?	Freq.	Percent	Cum.
1	30	76.92	76.92
2	9	23.08	100.00
Total	39	100.00	

. keep if nardec==1 | nutdec==1 | nindec==1
(40 observations deleted)

. sort idnum

. save "C:\NIDDK\MTOPS\Integrity\Analysis\E_UR.dta", replace
file C:\NIDDK\MTOPS\Integrity\Analysis\E_UR.dta saved

. * #####

. use "C:\NIDDK\MTOPS\Integrity\Analysis\Base_FU_EVENTS.dta", clear

. sort idnum

. merge idnum using "C:\NIDDK\MTOPS\Integrity\Analysis\E_AUA.dta"

. sort idnum

. drop _merge

. merge idnum using "C:\NIDDK\MTOPS\Integrity\Analysis\E_UR.dta"

. sort idnum

. drop _merge

. generate AUAweek = (AUA_date-rvstdt)/7
(2773 missing values generated)

. list AUA_date AUAweek aivwk if AUA==1 & _n<500

	AUA_date	AUAweek	aivwk
5.	16 Oct 98	53	53
6.	01 Nov 00	169	169
24.	16 Jul 98	104.4286	104
25.	20 Apr 98	42.57143	43
56.	03 Jun 98	66.14286	66

68.	17 Dec 99	143.2857	143
70.	02 Nov 99	102.7143	103
71.	10 May 00	220.8571	221
85.	12 Nov 97	26	26
92.	11 Jun 99	80	80
98.	29 May 01	236	236
110.	03 May 99	104	104
114.	24 Feb 98	75.57143	76
134.	03 Apr 98	13.57143	13
139.	18 Feb 99	71	71
145.	20 Nov 97	78.14286	78
148.	07 Aug 98	90	90
164.	03 Dec 99	102.4286	102
173.	16 Oct 96	116	116
180.	29 Apr 98	64.71429	65
189.	14 Aug 95	63.57143	64
199.	26 Jul 00	209.8571	210
203.	01 Jun 99	77	77
214.	07 Dec 00	169	169
237.	16 Apr 99	65.14286	65
255.	26 Nov 01	274	274
276.	07 Feb 01	221	221
278.	14 Mar 00	116	116
279.	12 Nov 97	77.28571	78
280.	19 Mar 98	51.85714	52
284.	23 Sep 98	223.7143	224
319.	29 Nov 00	233.8571	234
342.	29 May 97	65	65
343.	17 Mar 97	38	38
350.	30 Oct 97	13.14286	13
364.	18 Jun 99	79.14286	79
373.	07 Dec 98	65.42857	66
383.	24 Apr 98	38.14286	38
394.	07 Aug 96	12.85714	13
399.	18 Aug 01	236.4286	236
416.	27 Aug 97	53.28571	53
437.	09 Dec 97	50.71429	51
445.	31 Oct 96	13	13
447.	25 May 99	117	117
453.	26 Mar 98	38.85714	39
464.	15 Oct 01	221	221
477.	26 May 99	131.7143	132
482.	31 Mar 99	98.28571	98
488.	08 Jan 97	14.14286	14

```
. generate AUAweek2 = round(AUAweek)
(2773 missing values generated)
```

```
. list AUA_date AUAweek2 aivwk if AUA==1 & _n <100
```

AUA_date	AUAweek2	aivwk
----------	----------	-------

5.	16 Oct 98	53	53
6.	01 Nov 00	169	169
24.	16 Jul 98	104	104
25.	20 Apr 98	43	43
56.	03 Jun 98	66	66

68.	17 Dec 99	143	143
70.	02 Nov 99	103	103
71.	10 May 00	221	221
85.	12 Nov 97	26	26
92.	11 Jun 99	80	80

98.	29 May 01	236	236

. tab AUA ac4dec

AUA	conf-event declared ?	Total
1	1	273
Total	273	273

. correlate aivwk AUAweek2
(obs=273)

	aivwk	AUAweek2
aivwk	1.0000	
AUAweek2	1.0000	1.0000

. replace AUAweek2 = 212 if AUAweek2<213
(253 real changes made)

. replace aivwk =212 if aivwk<213
(252 real changes made)

. tab AUAweek2 drug if AUA==1 & AUAweek2==212

AUAweek2	treatment group				Total
	Placebo	Doxazosin	Finasteri	Combinati	
212	97	55	65	36	253
Total	97	55	65	36	253

. tab aivwk drug if ac4dec==1 & aivwk==212

init event-week of visit	treatment group				Total
	Placebo	Doxazosin	Finasteri	Combinati	
212	96	55	65	36	252
Total	96	55	65	36	252

.

```
. list idnum AUA ac4dec if AUA==1 & ac4dec~ = 1
```

```
+-----+
| idnum  AUA  ac4dec |
+-----+
2590. | 2590    1    .    |
+-----+
```

```
. generate URweek = (UR_date-rvstdt)/7
(2970 missing values generated)
```

```
. generate URweek2 = round(URweek)
(2970 missing values generated)
```

```
. list UR_date URweek URweek2 nviwk if URevent==1 & _n<500
```

```
+-----+
| UR_date  URweek  URweek2  nviwk |
+-----+
  2. | 16 Dec 98  103.2857    103    103 |
 53. | 02 Feb 98   21.71428     22     22 |
166. | 26 Nov 99  189.2857    189    195 |
171. | 01 Nov 97   58.71429     59     78 |
206. | 20 Jun 00  215.1429    215    215 |
+-----+
267. | 06 Feb 00  167.2857    167    168 |
296. | 03 Aug 98  222.5714    223    261 |
339. | 13 Aug 96     17         17     17 |
369. | 09 May 95     60         60     60 |
400. | 24 Aug 01  260.5714    261    260 |
+-----+
425. | 05 Apr 99  157.7143    158    158 |
428. | 16 Mar 00     176        176    200 |
441. | 25 Dec 98   63.14286     63     77 |
485. | 06 Nov 00  158.5714    159    159 |
490. | 25 Oct 00  221.1429    221    217 |
+-----+
```

```
. correlate nviwk URweek2
(obs=76)
```

```
-----+-----+
|          | nviwk  URweek2 |
+-----+-----+
nviwk | 1.0000 |
URweek2 | 0.9700  1.0000 |
+-----+-----+
```

```
. replace URweek2 = 212 if URweek2<213
(61 real changes made)
```

```
. replace nviwk =212 if nviwk<213
(58 real changes made)
```

```
. sort UR_Type
```

```
. by UR_Type: tab URweek2 drug if URevent==1 & URweek2==212
```

```
-> UR_Type = None
no observations
```

```
-> UR_Type = Retention
```

URweek2	treatment group				Total
	Placebo	Doxazosin	Finasteri	Combinati	
212	18	9	6	3	36
Total	18	9	6	3	36

-> UR_Type = U Infection

URweek2	treatment group			Total
	Placebo	Doxazosin	Combinati	
212	1	2	1	4
Total	1	2	1	4

-> UR_Type = Incontinence

URweek2	treatment group				Total
	Placebo	Doxazosin	Finasteri	Combinati	
212	6	7	7	1	21
Total	6	7	7	1	21

. tab nviwk drug if nardec==1 & nviwk==212

week of initial event visit	treatment group				Total
	Placebo	Doxazosin	Finasteri	Combinati	
212	17	9	6	3	35
Total	17	9	6	3	35

. tab nviwk drug if nutdec==1 & nviwk==212

week of initial event visit	treatment group		Total
	Placebo	Doxazosin	
212	1	2	3
Total	1	2	3

. tab nviwk drug if nindec==1 & nviwk==212

week of initial event visit	treatment group				Total
	Placebo	Doxazosin	Finasteri	Combinati	
212	6	6	7	1	20

Total	6	6	7	1	20
-------	---	---	---	---	----

```
. list idnum URevent nardec nutdec nindec if URevent==1 & (nardec~=1 & nutdec~=1 & nindec~=1)
```

	idnum	URevent	nardec	nutdec	nindec
3018.	2968	1	.	.	.

```
.
. generate XINVweek = (XInvasive_date - rvstddt)/7
(2795 missing values generated)

. generate XINVweek2 = round(XINVweek)
(2795 missing values generated)

. list XInvasive_date XINVweek XINVweek2 rvstddt if XInvasive_type>0 & _n<500
```

	XInvas~te	XINVweek	XINVwe~2	rvstddt
2.	01 Oct 97	69.28571	69	03 Jun 96
9.	25 Feb 99	117.2857	117	26 Nov 96
59.	27 Mar 00	122.4286	122	21 Nov 97
85.	01 Mar 98	99.85714	100	01 Apr 96
87.	01 May 98	96.28571	96	26 Jun 96
88.	07 Jan 99	83.85714	84	30 May 97
91.	30 May 01	192.8571	193	18 Sep 97
101.	27 Aug 99	178.2857	178	27 Mar 96
105.	28 Mar 95	30.57143	31	26 Aug 94
109.	16 Apr 01	233.5714	234	24 Oct 96
122.	16 Jul 97	79	79	10 Jan 96
123.	24 Feb 00	173	173	31 Oct 96
182.	02 Sep 99	140	140	26 Dec 96
183.	16 Jul 01	281.7143	282	21 Feb 96
189.	16 Feb 95	27.14286	27	10 Aug 94
209.	22 Feb 99	66	66	17 Nov 97
216.	06 Nov 98	62.57143	63	25 Aug 97
221.	01 Jun 97	71.85714	72	15 Jan 96
231.	22 Jul 99	140.1429	140	13 Nov 96
242.	07 Sep 00	211.4286	211	19 Aug 96
254.	03 Sep 97	62.85714	63	20 Jun 96
264.	22 Sep 98	85.57143	86	31 Jan 97
296.	19 Jun 98	59.57143	60	28 Apr 97
323.	26 Feb 01	218.4286	218	20 Dec 96
352.	23 May 01	191.8571	192	18 Sep 97
357.	30 Nov 94	14.14286	14	23 Aug 94
393.	11 May 00	172	172	23 Jan 97
407.	08 Mar 01	194.1429	194	18 Jun 97
409.	22 Oct 98	94.42857	94	30 Dec 96
428.	11 Apr 00	163.8571	164	19 Feb 97
449.	28 Feb 00	144.7143	145	21 May 97
472.	11 Sep 00	159.7143	160	20 Aug 97

```

486. | 14 Jul 98      105      105  09 Jul 96 |
491. | 28 Jan 99  138.8571      139  31 May 96 |
-----+-----+

```

```

. replace XINVweek2 = 212 if XINVweek2 < 213
(206 real changes made)

```

```

.
. *** Analysis using ALL invasive therapies ***
.
. tab XInvasive_type drug if XINVweek2==212 & XInvasive_type>0

```

xover-specify invasive therapy	treatment group				Total
	Placebo	Doxazosin	Finasteri	Combinati	
TURP	29	17	9	8	63
TUIP	1	1	0	1	3
Radical Prstctmy	14	14	7	23	58
Open Prstctmy	1	2	2	0	5
TUNA	3	0	1	0	4
Microwave	3	3	1	0	7
Laser	0	0	1	1	2
Other	13	18	15	20	66
Total	64	55	36	53	208

```

. tab wctitx

```

xover-other invasive therapy	Freq.	Percent	Cum.
BCG	2	2.56	2.56
BLADDER FULGURATION	1	1.28	3.85
EXTERNAL BEAM RADIATION	32	41.03	44.87
EXTERNAL BEAM RADIATION & RADIATION SEE	1	1.28	46.15
HIGH INTENSITY FOCUSED ULTRASOUND THERM	1	1.28	47.44
ORCHIECTOMY	1	1.28	48.72
RADIATION SEEDS	24	30.77	79.49
RADICAL CYSTECTOMY/PROSTATECTOMY	1	1.28	80.77
RADIOFREQUENCY TREATMENT	1	1.28	82.05
TURBT	10	12.82	94.87
TURP/TURBT	3	3.85	98.72
UNKNOWN THERAPY FOR BPH	1	1.28	100.00
Total	78	100.00	

```

. *** Analysis dropping Radical Prostatectomy and "Other" therapies ***

```

```

. replace XInvasive_type=0 if XInvasive_type==3
(70 real changes made)

```

```

. replace XInvasive_type=0 if XInvasive_type==9
(78 real changes made)

```

```

. tab XINVweek2 drug if XINVweek2==212 & XInvasive_type>0

```

XINVweek2	treatment group				Total
	Placebo	Doxazosin	Finasteri	Combinati	
212	37	23	14	10	84
Total	37	23	14	10	84

```
. tab XInvasive_type drug if XINVweek2==212 & XInvasive_type>0
```

xover-specify invasive therapy	treatment group				Total
	Placebo	Doxazosin	Finasteri	Combinati	
TURP	29	17	9	8	63
TUIP	1	1	0	1	3
Open Prstctmy	1	2	2	0	5
TUNA	3	0	1	0	4
Microwave	3	3	1	0	7
Laser	0	0	1	1	2
Total	37	23	14	10	84

```
. tab wctitx drug if XINVweek2==212
```

xover-other invasive therapy	treatment group				Total
	Placebo	Doxazosin	Finasteri	Combinati	
BCG	0	0	1	1	2
BLADDER FULGURATION	0	0	1	0	1
EXTERNAL BEAM RADIATI	3	8	6	7	24
ORCHIECTOMY	0	0	1	0	1
RADIATION SEEDS	8	5	5	6	24
RADICAL CYSTECTOMY/PR	0	0	0	1	1
RADIOFREQUENCY TREATM	0	1	0	0	1
TURBT	2	2	1	3	8
TURP/TURBT	0	2	0	1	3
UNKNOWN THERAPY FOR B	0	0	0	1	1
Total	13	18	15	20	66

```
.  
. *** FINAL ANALYSES get frequency distribution for time in study and  
. *** generate results ONLY for subjects with 212 or more  
. *** weeks of Follow UP
```

```
. tab END_collapsed
```

END_collaps ed	Freq.	Percent	Cum.
0	18	0.59	0.59
1-99	204	6.70	7.29
100-199	424	13.92	21.20
225-299	2,287	75.06	96.26
300+	114	3.74	100.00
Total	3,047	100.00	

```
. drop if END<212  
(1276 observations deleted)
```

```
. tab AUAweek2 drug if AUA==1 & AUAweek2==212
```

AUAweek2	treatment group				Total
	Placebo	Doxazosin	Finasteri	Combinati	
212	55	34	34	24	147

Total	55	34	34	24	147
-------	----	----	----	----	-----

. tab XINVweek2 drug if XINVweek2==212 & XInvasive_type>0

XINVweek2	treatment group				Total
	Placebo	Doxazosin	Finasteri	Combinati	
212	23	14	8	7	52
Total	23	14	8	7	52

. by UR_Type: tab URweek2 drug if XINVweek2==212 & URevent==1 & UR_Type>0

-> UR_Type = None
no observations

-> UR_Type = Retention

URweek2	treatment group				Total
	Placebo	Doxazosin	Finasteri	Combinati	
212	7	4	3	2	16
Total	7	4	3	2	16

-> UR_Type = U Infection

URweek2	treatment group	
	Placebo	Total
212	1	1
Total	1	1

-> UR_Type = Incontinence

URweek2	treatment group		Total
	Placebo	Doxazosin	
212	1	1	2
Total	1	1	2

end of do-file

. log close
log: C:\NIDDK\MTOPS\Integrity\Analysis\FU_Analyses.log
log type: text
closed on: 5 Jul 2006, 08:25:07