

Integrity Check for ICDB Baseline File

As a partial check of the integrity of the ICDB analysis datasets archived in the NIDDK data repository, a set of tabulations was performed to verify that published results from the ICDB study can be reproduced using the archived analysis datasets. Selected publications were identified and selected analyses were performed to duplicate published results for the complete baseline data, preliminary baseline data, and longitudinal data. The results of this integrity check are described in the following sections.

Complete Baseline Data. An article by Propert et al. [4] published in the Journal of Urology (JoU) in 2000 reports results for “637 [ICDB] participants who met eligibility criteria (p. 1435)” over the entire study period from May 1993 through January 1997. As a partial check of the integrity of the ICDB analysis baseline dataset, a set of tabulations was performed to verify that results reported in Tables 2 and 3 of this article can be reproduced using the archived baseline dataset. Tables 2 and 3 from the Journal of Urology article are included in Attachment 1; STATA 8/SE code and output for our tabulations are included in Attachment 3. The full text of the JoU article can be found in Attachment 4.

Table 2 Tabulations. The published table breaks down the ICDB sample by: gender, race, age, marital status, employment, education, annual household income, symptom duration prior to study entry, and previous interstitial cystitis diagnosis. Our tabulation from the archived dataset (see our Table 1) produced counts that are identical to the published table with two exceptions.

1. Duration of symptoms prior to study entry was calculated as the integer difference between age at onset of urinary symptoms (*shx_1* recorded as an integer) and age at baseline admission (*age* recorded as a decimal number). In comparing the distribution of the resulting variable to the published tabulation, we noted that the published table listed overlapping intervals: <1; 1-5; 5-11; 11-16; 16 or greater. Our Table 2 displays our calculated duration of symptoms variable in single years. Based on this tabulation, it appears that the published table should have shown the categories: <1; 1-4; 5-10; 11-15; 16 or greater. Use of these categories would provide an exact match between published Ns and Ns tabulated from the archived data.
2. Our tabulated employment status variable has 391 employed persons (versus 390 in the published table) and 138 “not employed” persons (versus 139 in the published table). The study form for employment lists nine defined responses and each carries an explicit notation as to whether the category is “employed”, “homemaker”, or “not employed”. A final “other” category appears to have generated four additional codes whose values (according to the FORMATS statement) were coded as: 10 = ‘On leave, emp’; 11 = ‘PT i/o home, emp’; 12 = ‘IC, not emp’; 13 = ‘Moved, not emp’; 14 = ‘Between jobs’. The code 10 (on leave) was not assigned to any case; the other four new codes had one case each. Table 3 shows the cross-tabulation of the detailed employment codes by the 3-category indicator of employment status. We suspect that the 1-case deviation between the published table and the tabulation from the archived data arose from variations in assignment of one of the codes numbered 11 to 14.

Table 3 Tabulations. JoU Table 3 breaks down patients’ overall¹ pain-urgency-frequency scores and their individual scores on each measure (pain, urgency, and frequency) into four categories: normal (absent), mild, moderate, and severe. Pain and urgency scores are reported for the last month and current

¹Although we did not find an explicit statement in the article, we assumed that the *overall* pain-urgency-frequency scores of 0-9, were collapsed using the same rules used for individual pain and urgency scores as described in Table 1, i.e., 0 = normal or absent, 1-3 = mild, 4-6 = moderate, and 7-9 = severe.

24 hours period; frequency of voiding is taken from a 24-hour log and is reported for both a 24 hour period and for nighttime. Our tabulations from the archived data matched exactly the data reported in JoU Table 3; these results are shown in Table 4 of this memo and in Attachment 3.

Preliminary Baseline Data. Four ICDB publications appeared in a supplement of the journal *Urology* in 1997 (Kirkemo et al., 1997 [1]; Simon et al., 1997 [5]; Nigro et al., 1997 [3]; Messing, 1997 [2]). Each of these articles used ICDB sample accrued through December 31, 1995; for our analysis we selected the report of Simon et al. [5]. We initially had trouble matching the sample counts. Table 5 illustrates the results we obtained for Simon et al. (1997) which did not select sample by gender or by any optional procedures employed (e.g., cystoscopy). We used five alternative date variables from the baseline file in our attempt to replicate their definition of “[A]ll 424 study participants successfully enrolled in the ICDB Study prior to December 31, 1995 were selected for an interim analysis. . .” Our results are shown in Table 5. No date variable we employed gave a count of study participants for the period 1993 to 1995 that was less than 432.

Study investigators indicated that the 1997 reports used a baseline dataset that excluded 10 patients who had completed baseline interviews and who were included in the NIDDK repository baseline data file.² When these 10 cases were removed from the baseline NIDDK dataset and analysis was restricted to cases whose baseline interviews occurred before January 1, 1996, we obtained a sample size of 424. As Table 6 shows, the tabulated characteristics of these 424 respondents provide an almost perfect match to those published for the overall sample in Table 4 of Simon et al. (1997).

Longitudinal Data. Propert et al.[4] report longitudinal analysis of change in reported severity of urinary symptoms over 48 months of followup. We conducted exploratory analyses using archive data of the reporting of pain during the past month which was assessed in the symptoms questionnaire and recorded in the longitudinal analysis file as *purg_I*. We followed Propert et al.’s (2000, p. 1436) strategy:

To evaluate longitudinal changes for the 6 primary outcomes (table 1) mean values of each outcome grouped into approximate 3-month intervals were plotted against the time of followup. Due to the categorical nature of the outcomes, the mean provided a better visual representation of changes with time than the median. For each outcome, patients were categorized according to the baseline value for that outcome (absent to mild, moderate, or severe) and separate lines were plotted for each group.

Our analysis focused on 1 of the 6 outcomes: Pain as reported on symptom questionnaire; and we used the 3-category variable *purgIc3b* to define the three baseline symptom groups (absent to mild pain, moderate, and severe pain at baseline). It was not readily apparent how the 3-month intervals should be constructed, so we tried three alternatives:

Method 1: Intervals of: exactly zero, then 1.50 to 4.49 assigned value 3; 4.50 to 7.49 assigned value 6; 7.0 to 10.49 assigned value 9; etc.

Method 2: Intervals of: exactly zero, then 0.01 to 2.99 assigned value 3; 3.00 to 5.99 assigned value

² Eight subjects (210008, 220007, 220030, 310020, 310056, 310084, 410049, 520047) were excluded because they took longer than 14.5 weeks to complete baseline interview; two other subjects were excluded for other reasons (420068 had “CYST < UROD”; and 520020 had “UROD < SYMPTS, UROD < QUL, UROD < PRIOR”; source: Colleen Brensinger and Kathleen Propert, e-mail of November 8, 2005). One other case (510018) was excluded because urodynamics were performed before baseline inclusion eligibility criteria had been checked; this case does not appear in the NIDDK baseline dataset.

6; 6.00 to 8.99 assigned value 9; etc. (Note that assigned values in this series could be spatially displaced by -1.5 units to better represent their source value; however, the published series appears to have inflection points at exactly 3, 6, 9, ... months.)

Method 3: Time was truncated to an integer, and intervals 0 to 2 were assigned value 0; 3 to 5 were assigned value of 3; 6 to 8 were assigned value of 6; etc.

For all three methods, 17 records for which *timeseen* values were negative were treated as missing data, and cases with assigned values greater than 48 months were calculated but not included in our plotted figures. Our initial analyses replicated the published findings that: (1) followup periods ranged up to 52 months and (2) of 637 subjects 109 were lost to followup and 123 withdrew from the study.³ For all subsequent analyses, we excluded the 232 cases that withdrew or were lost to followup.

Figure 1 in Attachment 2 presents Propert et al.'s published plot of trends over 48 months for reporting of pain in the past month. Figure 2 in Attachment 2 presents the same plot calculated from NIDDK archive data using Method 1.⁴ While these two plots are not identical they appear to be quite similar. Given uncertainties in the definition of time periods and small sample sizes for some of the points represented in these plots,⁵ we find this similarity reassuring.

References

- [1] Kirkemo A, Peabody M, Diokno AC, Afanasyev A, Nyberg LM Jr, Landis JR, Cook YL, Simon LJ. Associations among urodynamic findings and symptoms in women enrolled in the Interstitial Cystitis Data Base (ICDB) Study. **Urology**. 1997 May;49(5A Suppl):76-80.
- [2] Messing E, Pauk D, Schaeffer A, Nieweglowski M, Nyberg LM Jr, Landis JR, Cook YL, Simon LJ. Associations among cystoscopic findings and symptoms and physical examination findings in women enrolled in the Interstitial Cystitis Data Base (ICDB) Study. **Urology**. 1997 May;49(5A Suppl):81-5.
- [3] Nigro DA, Wein AJ, Foy M, Parsons CL, Williams M, Nyberg LM Jr, Landis JR, Cook YL, Simon LJ. Associations among cystoscopic and urodynamic findings for women enrolled in the Interstitial Cystitis Data Base (ICDB) Study. **Urology**. 1997 May;49(5A Suppl):86-92.
- [4] Propert KJ, Schaeffer AJ, Brensinger CM, Kusek JW, Nyberg LM, Landis JR and the ICDB Study Group. A prospective study of interstitial cystitis: results of longitudinal followup of the interstitial cystitis data base cohort. **Journal of Urology**. 2000 May;163(5):1434-9.
- [5] Simon LJ, Landis JR, Erickson DR, Nyberg LM. The Interstitial Cystitis Data Base Study: concepts and preliminary baseline descriptive statistics. **Urology**. 1997 May;49(5A Suppl):64-75.

³Tabulation of *fup_stat* (followup status) for 637 initial interviews (i.e., *timeseen* == 0.00).

⁴Attachment 5 presents results for Methods 2 and 3.

⁵While the archive plots delete cases that withdrew from the study or were lost to followup, the sample represented at each series time point is not identical and the sample sizes fluctuate substantially (see STATA output). So, for example, the number of 1-month pain measurements for cases with moderate symptoms at baseline was 208 in Month 0 and 24 in Month 48.

TABLE 1. Comparison of characteristic of subjects reported by Propert et al. (2000) and results of tabulation from baseline data in NIDDK repository.

	Published Tabulation	Tabulation of Archived Data
Sex		
Male	56	56
Female	581	581
Race (b)		
White	592	592
Black	29	29
Other	14	14
Unknown	2	2
Age		
18-34	176	176
35-44	164	164
45-54	146	146
55+	151	151
Marital Status (c)		
Partnered	449	449
Alone	188	188
Employment (d)		
Employed	390	391
Homemaker	108	108
Not Employed	139	138
Education		
HS or less	272	272
College	248	248
Advanced	117	117
Annual household income		
Less than \$30,000	182	182
More than \$30,000	454	454
Not available	1	1
Symptom duration before study entry (yrs.)		
<1	15	15
1-4 (a)	210	210
5-10 (a)	168	168
11-15 (a)	73	73
16 or greater	171	171
Previous interstitial cystitis diagnosis by MD		
Yes	432	432
No	205	205

(a) The published categories overlap (<1; 1-5; 5-11; 11-16; 16 or greater) and appear to be a typographical error. Based on our analysis of the archived data (see text), we suspect that the non-overlapping categories shown in this table represent the tabulation done for publication.

(b) Other includes persons coded as aleut, asian, multi-racial, and other. Unknown includes one person coded as "no answer" and one person coded as "unknown".

(c) "Partnered" includes persons coded as "married" and those coded as "living with a partner".

(d) In our tabulation from the archived data, one person coded as "between jobs" was classified as "not employed" when the 13 employment codes used in the data collection were collapsed into the three categories shown. If this person were re-categorized as "employed", the archived tabulation would exactly match the published table.

Table 2. Symptom duration prior to study entry. (Caculated to match Propert et al., 2000)

Single Years	N	Totals	Interval
0	15	15	< 1
1	49		
2	68		
3	50		
4	43	210	1-4
5	43		
6	31		
7	25		
8	28		
9	16		
10	25	168	5-10
11	14		
12	18		
13	15		
14	13		
15	13	73	11-15
16	7		
17	164	171	16+

TABLE 3. Cross-tabulation of detailed employment codes by 3-category employment status variable.

Detailed Codes (a)	Collapsed Codes			TOTAL
	Employed	Homemaker	Not Employed	
FT,emp	255	0	0	255
PT, emp	104	0	0	104
Home FT,emp	15	0	0	15
Home PT,emp	16	0	0	16
Homemaker	0	108	0	108
Laid off NE	0	0	11	11
Disabled NE	0	0	47	47
Retired NE	0	0	65	65
Student NE	0	0	12	12
PT i/o home,Emp	1	0	0	1
IC,NE	0	0	1	1
Moved,NE	0	0	1	1
Between jobs	0	0	1	1
ARCHIVE TOTAL	391	108	138	637
PUBLISHED	390	108	139	637

(a) Code labels are from SAS formats files but NE has been substituted "not emp".

TABLE 4. Comparison of published symptom outcomes and tabulation from archive data.

Outcome Measures	Tabulation	N Patients	SYMPTOM SEVERITY			
			Absent or Normal	Mild	Moderate	Severe
Pain-Urgency-Frequency Score	Published	637	0	44	283	310
	Archive	637	0	44	283	310
Pain - Last Month	Published	637	30	121	304	182
	Archive	637	30	121	304	182
Pain - Current 24hr.	Published	620	60	194	236	130
	Archive	620	60	194	236	130
Urgency - Last Month	Published	637	5	86	282	264
	Archive	637	5	86	282	264
Urgency - Current 24hr.	Published	621	15	144	276	186
	Archive	621	15	144	276	186
Frequency - 24hrs.	Published	628	45	152	176	255
	Archive	628	45	152	176	255
Frequency - Nocturnal	Published	628	148	159	218	103
	Archive	628	148	159	218	103

Note. Published source Propert et al. (2000, Table 3).

TABLE 5. Number of patients enrolled in ICDB study through December 31,1995 from published reports and tabulations using alternative date indicators in archived baseline file.

SAMPLE SIZE USING	1993-1995	1996-1997
Published Tabulation (a)	424	NA
<i>Tabulation using archived variables:</i>		
Inclusion date (incldate)	443	194
Screening slgnboff Date (scrdate)	434	203
Visit date from "purg form" (v_date)	443	194
Date of symptoms form at baseline (sympdate)	442	195
Date voiding logs turned in (voiddate)	432	205

TABLE 6. Comparison of characteristic of subjects reported by Simon et al. (1997) and results of tabulation from baseline data in NIDDK repository (a).

CHARACTERISTICS	Published Tabulation	Tabulation of Archived Data
Age (Mean at Baseline)	44.3	44.3
Age (Mean, First Symptoms)	32.2	32.2
Sex		
Male	36	36
Female	388	388
Race (b)		
White	386	386
Black	24	24
Other	14	14
Latino/Hispanic (e)		
Yes, Hispanic	21	21
No, Non-Hispanic	402	402
Missing	1	1
Marital Status (c)		
Partnered	290	290
Alone	134	134
Education		
HS or less	186	186
College	161	162
Advanced	77	76
Employment (d)		
Employed	262	263
Homemaker	72	71
Not Employed	90	90
Job change due to symptoms (e)		
Yes, job change	46	46
No	270	270
Missing	108	108
Annual household income		
Less than \$30,000	132	132
More than \$30,000	292	292
Not available		

(a) Tabulation from NIDDK repository dataset eliminated all cases whose baseline interviews occurred before January 1, 1996 plus 10 additional cases explicitly dropped by investigators (210008, 220007, 220030, 310020, 310056, 310084, 410049, 520047, 420068, 520020); see text of memo.

(b) In tabulation from archive data, "Other" included persons coded as aleut, asian, multi-racial, other, plus unknown and no answer.

(c) "Partnered" includes persons coded as "married" and those coded as "living with a partner"; all others are coded as not partnered.

(d) Tabulation from archive data classified codes 1-4 as employed (FT emp, PT, emp, Home FT emp, Home PT emp); code 5 were homemakers, and codes 6-9 were Not Employed (Laid off; Disabled; Retired; Student).

ATTACHMENT 1

Journal of Urology Tables 2 and 3

from

Propert KJ, Schaeffer AJ, Brensinger CM, Kusek JW, Nyberg LM, Landis JR and the ICDB Study Group. A prospective study of interstitial cystitis: results of longitudinal followup of the interstitial cystitis data base cohort. **J of Urology**. 2000 May;163(5):1434-9.

TABLE 2. *Baseline demographic characteristics of 637 patients*

Characteristic	No. Pts. (%)
Sex:	
F	581 (91.2)
M	56 (8.8)
Race:	
White	592 (93.2)
Black	29 (4.5)
Other	14 (2.2)
Unknown	2
Age:	
18–34	176 (27.6)
35–44	164 (25.7)
45–54	146 (22.9)
55+	151 (23.7)
Marital status:	
Partnered	449 (70.5)
Alone	188 (29.5)
Employment:	
Employed	390 (61.2)
Homemaker	108 (17.0)
Not employed	139 (21.8)
Education:	
High school or less	272 (42.7)
College	248 (38.9)
Advanced	117 (18.4)
Annual household income (\$):	
Less than 30,000	182 (28.6)
30,000 or Greater	454 (71.4)
Not available	1
Symptom duration before study entry (yrs.):*	
Less than 1	15 (2.4)
1–5	210 (33.0)
5–11	168 (26.4)
11–16	73 (11.5)
16 or Greater	171 (26.8)
Previous interstitial cystitis diagnosis by physician:	
Yes	432 (67.8)
No	205 (32.2)

* Median 7.7 years (range 0 to 62).

Table 2. Baseline demographic characteristics of 637 patients* Median 7.7 years (range 0 to 62).

ATTACHMENT 2

Longitudinal Analysis of 1-Month Pain Symptoms over 48 Months of Study by Baseline Pain Report

- 1. Figure 2a from Propert et al., 2000**
- 2. Figure using values calculated from NIDDK archive dataset**

A**Pain: Past Month**

Pain Score: Past Month

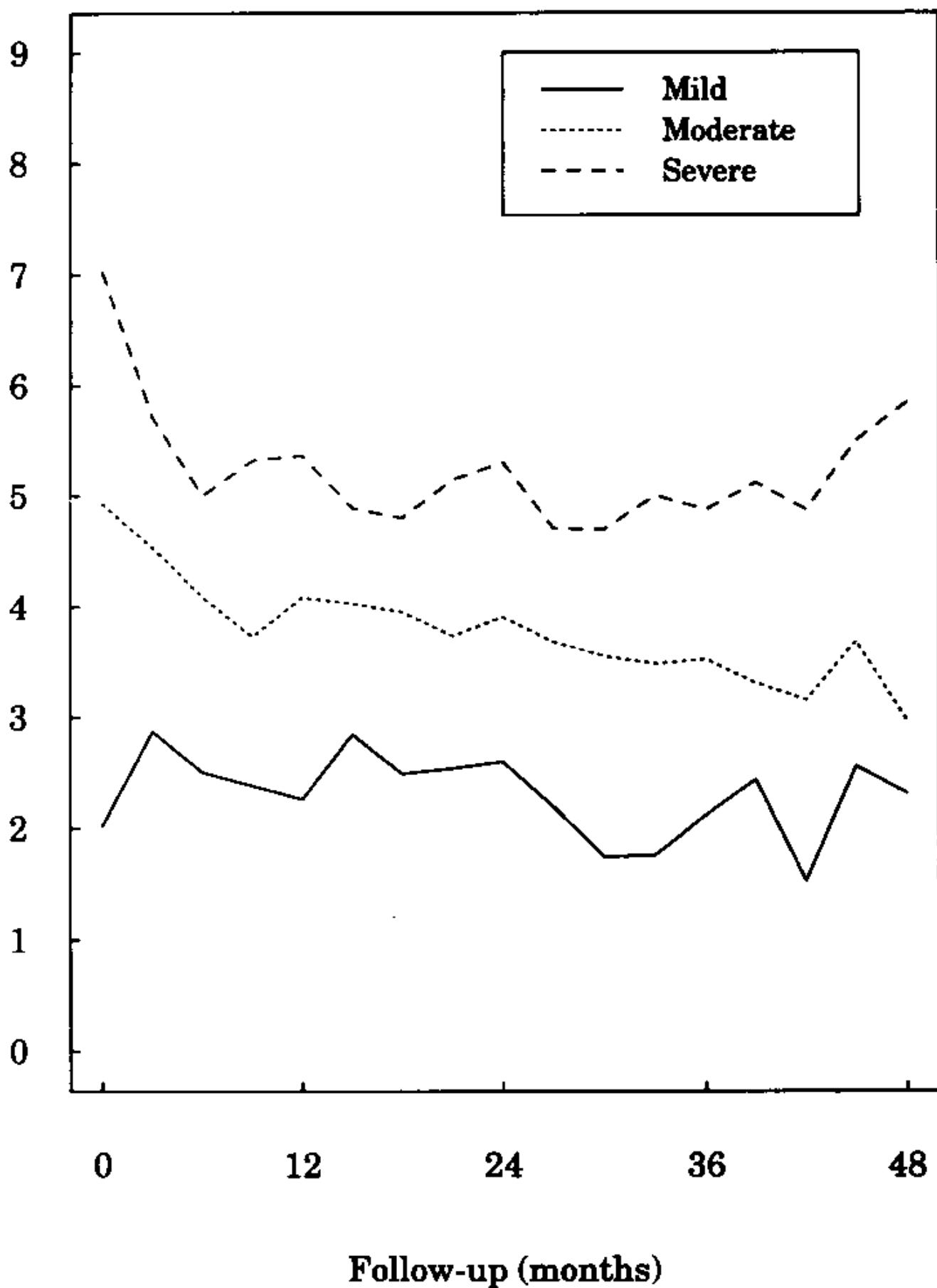
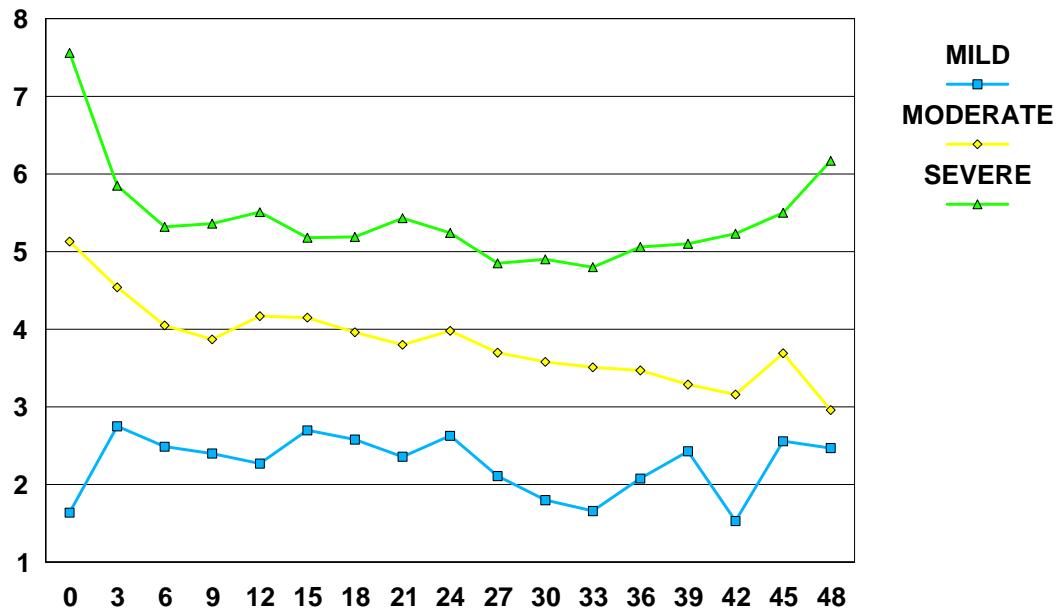


FIGURE 2: ICDB Archive Data, Method 1

Monthly Pain for 3 Baseline Pain Groupings



ATTACHMENT 3

**STATA 8/SE Code and Output for
Tabulations from ICDB Baseline Dataset in NIDDK Repository**

ICDB ANALYSIS 1

```
log: P:\NIDDK\ICDB\ICDB_CD\SAS derived_data\1.smcl
log type: smcl
opened on: 31 Oct 2005, 16:33:28

. do "C:\DOCUME~1\cft\LOCALS~1\Temp\STD03000000.tmp"

. use "P:\NIDDK\ICDB\ICDB_CD\SAS derived_data\baseline.dta", clear

.

. generate symp_age = int(age - shx_1)

. replace symp_age = 0 if symp_age<1
(0 real changes made)

. replace symp_age = 4 if ((symp_age >=1) & (symp_age <=4))
(167 real changes made)

. replace symp_age = 10 if ((symp_age >=5) & (symp_age <=10))
(143 real changes made)

. replace symp_age = 15 if ((symp_age >=11) & (symp_age <=15))
(60 real changes made)

. replace symp_age = 17 if (symp_age >=16)
(162 real changes made)

. label define symp_age 0"< 1yr" 4"1-4yrs" 10"5-10yrs" 15"11-15 yrs" 17"16+
yrs"

. label values symp_age symp_age

. tab symp_age, missing



| symp_age  | Freq. | Percent | Cum.   |
|-----------|-------|---------|--------|
| < 1yr     | 15    | 2.35    | 2.35   |
| 1-4yrs    | 210   | 32.97   | 35.32  |
| 5-10yrs   | 168   | 26.37   | 61.70  |
| 11-15 yrs | 73    | 11.46   | 73.16  |
| 16+ yrs   | 171   | 26.84   | 100.00 |
| Total     | 637   | 100.00  |        |



.

. generate ageYRS=int(age)

. generate ageC=int(age)

. replace ageC = 18 if ageC<=34
(176 real changes made)

. replace ageC = 44 if (ageC>34) & (ageC<=44)
(149 real changes made)

. replace ageC = 54 if (ageC>44) & (ageC<=54)
(134 real changes made)

. replace ageC = 55 if (ageC>54)
(142 real changes made)
```

```

. label define ages 18 "18-34" 44 "35-44" 54 "45-54" 55 "55+"
. label values ageC ages
. tab ageYRS ageC, missing

```

ageYRS	ageC				Total
	18-34	35-44	45-54	55+	
19	3	0	0	0	3
20	6	0	0	0	6
21	2	0	0	0	2
22	4	0	0	0	4
23	8	0	0	0	8
24	9	0	0	0	9
25	15	0	0	0	15
26	15	0	0	0	15
27	11	0	0	0	11
28	12	0	0	0	12
29	13	0	0	0	13
30	17	0	0	0	17
31	16	0	0	0	16
32	17	0	0	0	17
33	14	0	0	0	14
34	14	0	0	0	14
35	0	14	0	0	14
36	0	24	0	0	24
37	0	15	0	0	15
38	0	12	0	0	12
39	0	16	0	0	16
40	0	19	0	0	19
41	0	18	0	0	18
42	0	18	0	0	18
43	0	13	0	0	13
44	0	15	0	0	15
45	0	0	21	0	21
46	0	0	10	0	10
47	0	0	17	0	17
48	0	0	17	0	17
49	0	0	15	0	15
50	0	0	9	0	9
51	0	0	16	0	16
52	0	0	20	0	20
53	0	0	9	0	9
54	0	0	12	0	12
55	0	0	0	9	9
56	0	0	0	12	12
57	0	0	0	7	7
58	0	0	0	6	6
59	0	0	0	7	7
60	0	0	0	5	5
61	0	0	0	6	6
62	0	0	0	11	11
63	0	0	0	4	4
64	0	0	0	3	3
65	0	0	0	11	11
66	0	0	0	8	8
67	0	0	0	7	7
68	0	0	0	11	11
69	0	0	0	9	9
70	0	0	0	5	5
71	0	0	0	3	3
72	0	0	0	7	7
73	0	0	0	8	8

74	0	0	0	1	1
75	0	0	0	1	1
76	0	0	0	2	2
77	0	0	0	4	4
79	0	0	0	1	1
81	0	0	0	1	1
82	0	0	0	2	2
Total	176	164	146	151	637

. tab ageC, missing

ageC	Freq.	Percent	Cum.
18-34	176	27.63	27.63
35-44	164	25.75	53.38
45-54	146	22.92	76.30
55+	151	23.70	100.00
Total	637	100.00	

. label define race1 1"aleut" 2"asian" 3"black" 4"caucasian" 5"multi-racial" 6"other" 7"no answer" 8"unknown"

. label values race race1

. generate raceC = race

. replace raceC = 1 if race==4
(592 real changes made)

. replace raceC = 2 if race==3
(29 real changes made)

. replace raceC = 3 if (race<3)|(race==5)|(race==6)
(14 real changes made)

. replace raceC = 4 if (race>6)
(2 real changes made)

. label define race2 1"White" 2"Black" 3"Other" 4"Unknown"

. label values raceC race2

. tab race raceC, missing

race	raceC				Total
	White	Black	Other	Unknown	
aleut	0	0	2	0	2
asian	0	0	7	0	7
black	0	29	0	0	29
caucasian	592	0	0	0	592
multi-racial	0	0	3	0	3
other	0	0	2	0	2
no answer	0	0	0	1	1
unknown	0	0	0	1	1
Total	592	29	14	2	637

```

. tab raceC, missing

      raceC |      Freq.      Percent      Cum.
-----+-----
    White |      592      92.94      92.94
   Black |       29       4.55      97.49
   Other |       14       2.20      99.69
 Unknown |        2       0.31     100.00
-----+-----
    Total |      637      100.00

.

. label define edustat1 1"< HS" 2"some HS" 3"HS grad(or GED)" 4"college"
5"grad school"

. label values ed_level edustat1

.

. generate educ2 = ed_level

. replace educ2 = 1 if ed_level<4
(261 real changes made)

. replace educ2 = 2 if ed_level==4
(248 real changes made)

. replace educ2 = 3 if ed_level==5
(117 real changes made)

. label define educstat2 1"HS or less" 2"College" 3"Advanced"

. label values educ2 educstat2

. tab ed_level educ2, missing

      level of |      educ2
      education | HS or les      College      Advanced |      Total
-----+-----
      < HS |       11       0       0 |      11
      some HS |      29       0       0 |      29
      HS grad(or GED) |      232       0       0 |      232
      college |       0      248       0 |      248
      grad school |       0       0      117 |      117
-----+-----
      Total |      272      248      117 |      637

.

. tab educ2, missing

      educ2 |      Freq.      Percent      Cum.
-----+-----
      HS or less |      272      42.70      42.70
      College |      248      38.93      81.63
      Advanced |      117      18.37     100.00
-----+-----
      Total |      637      100.00

.

. label define sex 1"male" 2"female"

. label values sex sex

```

```

. tab sex, missing

      sex |      Freq.      Percent      Cum.
-----+-----
    male |       56       8.79       8.79
  female |      581      91.21      100.00
-----+-----
     Total |      637      100.00

.

. label define income 1"<$30K" 2">$30K"

. label values income income

. tab income, missing

  household |
  income |      Freq.      Percent      Cum.
-----+-----
  <$30K |      182      28.57      28.57
  >$30K |      454      71.27      99.84
  . |       1       0.16      100.00
-----+-----
     Total |      637      100.00

.

. label define marstat1 1"married" 2"liv w/partnr" 3"sep" 4"div" 5"widow"
6"nvr marr"

. label values mar_st marstat1
. generate marst2 = mar_st
. replace marst2 = 1 if (mar_st<3)
(33 real changes made)

. replace marst2 = 2 if (mar_st>2)
(188 real changes made)

. label define marstat2 1"Partnered" 2"Alone"
. label values marst2 marstat2

. tab mar_st marst2, missing

  marital |      marst2
  status | Partnered      Alone |      Total
-----+-----+-----+-----+
  married |      416          0 |      416
  liv w/partnr |      33          0 |      33
  sep |       0         14 |      14
  div |       0         64 |      64
  widow |       0         19 |      19
  nvr marr |       0         91 |      91
-----+-----+-----+-----+
     Total |      449        188 |      637

.

. tab marst2, missing
  marst2 |      Freq.      Percent      Cum.
-----+-----
  Partnered |      449      70.49      70.49
    Alone |      188      29.51      100.00
-----+-----
     Total |      637      100.00

```

```

. label define emp_cd 1"FT,emp" 2"PT, emp" 3"Home FT,emp" 4"Home PT,emp"
5"Homemaker" 6"Laid off NE" 7"Disabled NE" 8"Retire
> d NE" 9"Student NE" 10"On leave,emp" 11"PT i/o home,Emp" 12"IC,NE"
13"Moved,NE" 14"Between jobs"

. label values emp_st emp_cd

. generate employ2 = 3

. replace employ2 = 1 if (emp_st <5) | (emp_st ==11)|(emp_st == 10)
(391 real changes made)

. replace employ2 = 2 if (emp_st == 5)
(108 real changes made)

. label define employ2 1"Employed" 2"Homemaker" 3"Not Employed"

. label values employ2 employ2

. tab emp_st employ2, missing

```

employment status	employ2			Total
	Employed	Homemaker	Not Emplo	
FT,emp	255	0	0	255
PT, emp	104	0	0	104
Home FT,emp	15	0	0	15
Home PT,emp	16	0	0	16
Homemaker	0	108	0	108
Laid off NE	0	0	11	11
Disabled NE	0	0	47	47
Retired NE	0	0	65	65
Student NE	0	0	12	12
PT i/o home,Emp	1	0	0	1
IC,NE	0	0	1	1
Moved,NE	0	0	1	1
Between jobs	0	0	1	1
Total	391	108	138	637

```
. tab employ2, missing
```

employ2	Freq.	Percent	Cum.
Employed	391	61.38	61.38
Homemaker	108	16.95	78.34
Not Employed	138	21.66	100.00
Total	637	100.00	

```
.
. label define yn01 1"yes" 0"no"
. label values shx_2 yn01
```

```
. tab shx_2, missing

previously |  
diagnosed |  
with ic? |      Freq.      Percent      Cum.  
-----+-----+-----+-----+  
     no |      205      32.18      32.18  
    yes |      432      67.82     100.00  
-----+-----+-----+  
   Total |      637      100.00

.  
.end of do-file  
. exit, clear
```

ICDB ANALYSIS 2

```
log: P:\NIDDK\ICDB\ICDB_CD\SAS derived_data\3.smcl
log type: smcl
opened on: 1 Nov 2005, 16:19:20

. do "C:\DOCUME~1\cft\LOCALS~1\Temp\STD03000000.tmp"

. use "P:\NIDDK\ICDB\ICDB_CD\SAS derived_data\baseline.dta",
clear

. label define nmms -1"missing" 0"normal" 1"Mild" 2"Moderate" 3"Severe"

. generate t_score_4pt = -1

. replace t_score_4pt = 1 if (t_score > 0) & (t_score <=3)
(44 real changes made)

. replace t_score_4pt = 2 if (t_score >= 4) & (t_score <=6)
(283 real changes made)

. replace t_score_4pt = 3 if (t_score >=7) & (t_score <=9)
(310 real changes made)

. label values t_score_4pt nmms

. label values p_score nmms

. label values vpurg1b4 nmms

. label values u_score nmms

. label values vpurg2b4 nmms

. tab t_score t_score_4pt, missing



| total<br>score<br>(puf) | t_score_4pt |          |        | Total |
|-------------------------|-------------|----------|--------|-------|
|                         | Mild        | Moderate | Severe |       |
| 1                       | 1           | 0        | 0      | 1     |
| 2                       | 9           | 0        | 0      | 9     |
| 3                       | 34          | 0        | 0      | 34    |
| 4                       | 0           | 57       | 0      | 57    |
| 5                       | 0           | 91       | 0      | 91    |
| 6                       | 0           | 135      | 0      | 135   |
| 7                       | 0           | 0        | 110    | 110   |
| 8                       | 0           | 0        | 112    | 112   |
| 9                       | 0           | 0        | 88     | 88    |
| Total                   | 44          | 283      | 310    | 637   |



. tabl t_score_4pt p_score vpurg1b4 u_score vpurg2b4, missing
```

-> tabulation of t_score_4pt

t_score_4pt	Freq.	Percent	Cum.
Mild	44	6.91	6.91
Moderate	283	44.43	51.33
Severe	310	48.67	100.00
Total	637	100.00	

-> tabulation of p_score

baseline pain score	Freq.	Percent	Cum.
normal	30	4.71	4.71
Mild	121	19.00	23.70
Moderate	304	47.72	71.43
Severe	182	28.57	100.00
Total	637	100.00	

-> tabulation of vpurglb4

day 1 pain score from void log--baseli ne	Freq.	Percent	Cum.
normal	60	9.42	9.42
Mild	194	30.46	39.87
Moderate	236	37.05	76.92
Severe	130	20.41	97.33
.	17	2.67	100.00
Total	637	100.00	

-> tabulation of u_score

baseline urinary urgency score	Freq.	Percent	Cum.
normal	5	0.78	0.78
Mild	86	13.50	14.29
Moderate	282	44.27	58.56
Severe	264	41.44	100.00
Total	637	100.00	

```
-> tabulation of vpurg2b4
```

day 1 urgency score void log--baseli ne	Freq.	Percent	Cum.
normal	15	2.35	2.35
Mild	144	22.61	24.96
Moderate	276	43.33	68.29
Severe	186	29.20	97.49
.	16	2.51	100.00
Total	637	100.00	

```
.  
. generate freq24B_4pt = -1  
  
. replace freq24B_4pt = 0 if vf_24b < 7  
(45 real changes made)  
  
. replace freq24B_4pt = 1 if (vf_24b > 6) & (vf_24b < 11)  
(152 real changes made)  
  
. replace freq24B_4pt = 2 if (vf_24b > 10) & (vf_24b < 15)  
(176 real changes made)  
  
. replace freq24B_4pt = 3 if (vf_24b >= 15)& (vf_24b < 100)  
(255 real changes made)  
  
. label values freq24B_4pt nmms  
  
. label variable freq24B_4pt "Baseline 24h freq voiding, 4-pt"  
  
. tab vf_24b freq24B_4pt, missing
```

day voids/24hr	Baseline 24h freq voiding, 4-pt					Total	
	missing	normal	Mild	Moderate	Severe		
2	0	2	0	0	0	2	
4	0	6	0	0	0	6	
5	0	15	0	0	0	15	
6	0	22	0	0	0	22	
7	0	0	35	0	0	35	
8	0	0	35	0	0	35	
9	0	0	45	0	0	45	
10	0	0	37	0	0	37	
11	0	0	0	51	0	51	
12	0	0	0	50	0	50	
13	0	0	0	41	0	41	
14	0	0	0	34	0	34	
15	0	0	0	0	28	28	
16	0	0	0	0	33	33	
17	0	0	0	0	31	31	
18	0	0	0	0	29	29	
19	0	0	0	0	19	19	
20	0	0	0	0	15	15	
21	0	0	0	0	10	10	
22	0	0	0	0	9	9	
23	0	0	0	0	14	14	
24	0	0	0	0	9	9	
25	0	0	0	0	6	6	
26	0	0	0	0	10	10	
27	0	0	0	0	5	5	
28	0	0	0	0	7	7	
29	0	0	0	0	7	7	
30	0	0	0	0	5	5	
31	0	0	0	0	2	2	
32	0	0	0	0	5	5	
34	0	0	0	0	2	2	
35	0	0	0	0	1	1	
36	0	0	0	0	1	1	
38	0	0	0	0	1	1	
39	0	0	0	0	1	1	
40	0	0	0	0	1	1	
44	0	0	0	0	2	2	
47	0	0	0	0	1	1	
59	0	0	0	0	1	1	
.	9	0	0	0	0	9	
Total		9	45	152	176	255	637

```

. tab freq24B_4pt, missing



| Baseline<br>24h freq<br>voiding,<br>4-pt | Freq. | Percent | Cum.   |
|------------------------------------------|-------|---------|--------|
| missing                                  | 9     | 1.41    | 1.41   |
| normal                                   | 45    | 7.06    | 8.48   |
| Mild                                     | 152   | 23.86   | 32.34  |
| Moderate                                 | 176   | 27.63   | 59.97  |
| Severe                                   | 255   | 40.03   | 100.00 |
| Total                                    | 637   | 100.00  |        |



.

. generate freqNocB_4pt = -1

. replace freqNocB_4pt = 0 if vf_noctb ==0
(148 real changes made)

. replace freqNocB_4pt = 1 if vf_noctb ==1
(159 real changes made)

. replace freqNocB_4pt = 2 if (vf_noctb == 2) | (vf_noctb == 3)
(218 real changes made)

. replace freqNocB_4pt = 3 if (vf_noctb > 3)& (vf_noctb < 100)
(103 real changes made)

. label values freqNocB_4pt nmms

. label variable freqNocB_4pt "Baseline nocturnal freq voiding, 4-pt"

. tab vf_noctb freqNocB_4pt, missing



| day 1 #<br>nocturnal<br>voids--base<br>line | missing | normal | Mild | Moderate | Severe | Total |
|---------------------------------------------|---------|--------|------|----------|--------|-------|
| 0                                           | 0       | 148    | 0    | 0        | 0      | 148   |
| 1                                           | 0       | 0      | 159  | 0        | 0      | 159   |
| 2                                           | 0       | 0      | 0    | 130      | 0      | 130   |
| 3                                           | 0       | 0      | 0    | 88       | 0      | 88    |
| 4                                           | 0       | 0      | 0    | 0        | 35     | 35    |
| 5                                           | 0       | 0      | 0    | 0        | 22     | 22    |
| 6                                           | 0       | 0      | 0    | 0        | 21     | 21    |
| 7                                           | 0       | 0      | 0    | 0        | 8      | 8     |
| 8                                           | 0       | 0      | 0    | 0        | 3      | 3     |
| 10                                          | 0       | 0      | 0    | 0        | 4      | 4     |
| 11                                          | 0       | 0      | 0    | 0        | 1      | 1     |
| 12                                          | 0       | 0      | 0    | 0        | 4      | 4     |
| 14                                          | 0       | 0      | 0    | 0        | 2      | 2     |
| 15                                          | 0       | 0      | 0    | 0        | 1      | 1     |
| 17                                          | 0       | 0      | 0    | 0        | 1      | 1     |
| 18                                          | 0       | 0      | 0    | 0        | 1      | 1     |
| .                                           | 9       | 0      | 0    | 0        | 0      | 9     |
| Total                                       | 9       | 148    | 159  | 218      | 103    | 637   |



.

. tab freqNocB_4pt, missing

```

Baseline nocturnal freq voiding, 4-pt	Freq.	Percent	Cum.
missing	9	1.41	1.41
normal	148	23.23	24.65
Mild	159	24.96	49.61
Moderate	218	34.22	83.83
Severe	103	16.17	100.00
Total	637	100.00	

.

```
end of do-file
```

```
. log off
    log: P:\NIDDK\ICDB\ICDB_CD\SAS_derived_data\3.smcl
    log type: smcl
paused on: 1 Nov 2005, 16:19:54
```

ICDB ANALYSIS 3

```
log: P:\NIDDK\ICDB\ICDB_CD\SAS derived_data\11_2_2005a.smcl
log type: smcl
opened on: 2 Nov 2005, 11:15:10

. use "P:\NIDDK\ICDB\ICDB_CD\SAS derived_data\baseline.dta", clear

. generate IYear = year(incldate)

. tab IYear



| IYear | Freq. | Percent | Cum.   |
|-------|-------|---------|--------|
| 1993  | 111   | 17.43   | 17.43  |
| 1994  | 175   | 27.47   | 44.90  |
| 1995  | 157   | 24.65   | 69.54  |
| 1996  | 192   | 30.14   | 99.69  |
| 1997  | 2     | 0.31    | 100.00 |
| Total | 637   | 100.00  |        |



. generate I1995 = 0

. replace I1995 = 1 if IYear <= 1995
(443 real changes made)

. label var I1995 "Inclusion date pre-1996 ?"

. label define X1995 0"1996+" 1"=<=1995"

. label values I1995 X1995

. tab I1995



| Inclusion<br>date<br>pre-1996 ? | Freq. | Percent | Cum.   |
|---------------------------------|-------|---------|--------|
| 1996+                           | 194   | 30.46   | 30.46  |
| <=1995                          | 443   | 69.54   | 100.00 |
| Total                           | 637   | 100.00  |        |



. generate ScrYear = year(scrdate)

. tab ScrYear



| ScrYear | Freq. | Percent | Cum.   |
|---------|-------|---------|--------|
| 1993    | 99    | 15.54   | 15.54  |
| 1994    | 180   | 28.26   | 43.80  |
| 1995    | 155   | 24.33   | 68.13  |
| 1996    | 197   | 30.93   | 99.06  |
| 1997    | 6     | 0.94    | 100.00 |
| Total   | 637   | 100.00  |        |



. generate Scr1995 = 0

. replace Scr1995 = 1 if ScrYear <= 1995
(434 real changes made)
```

```

. label var Scr1995 "Screening signoff date pre-1996 ?"
. label values Scr1995 X1995
. tab Scr1995

  Screening |  

    signoff |  

      date |  

  pre-1996 ? | Freq. Percent Cum.  

-----+-----+-----+-----+
  1996+ | 203 31.87 31.87  

  <=1995 | 434 68.13 100.00  

-----+-----+-----+-----+
      Total | 637 100.00

.
. generate VYear = year(v_date)
. tab VYear

  VYear | Freq. Percent Cum.  

-----+-----+-----+-----+
  1993 | 111 17.43 17.43  

  1994 | 175 27.47 44.90  

  1995 | 157 24.65 69.54  

  1996 | 192 30.14 99.69  

  1997 | 2 0.31 100.00  

-----+-----+-----+-----+
      Total | 637 100.00

. generate V1995 = 0
. replace V1995 = 1 if VYear <= 1995
(443 real changes made)

. label var V1995 "Visit date purg form, pre-1996 ?"
. label values V1995 X1995
. tab V1995

  Visit date |  

  purg form, |  

  pre-1996 ? | Freq. Percent Cum.  

-----+-----+-----+-----+
  1996+ | 194 30.46 30.46  

  <=1995 | 443 69.54 100.00  

-----+-----+-----+-----+
      Total | 637 100.00

.
. generate SymYear = year(sympdate)
. tab SymYear

  SymYear | Freq. Percent Cum.  

-----+-----+-----+-----+
  1993 | 109 17.11 17.11  

  1994 | 175 27.47 44.58  

  1995 | 158 24.80 69.39  

  1996 | 193 30.30 99.69  

  1997 | 2 0.31 100.00  

-----+-----+-----+-----+

```

```

Total |       637      100.00

. generate Sym1995 = 0

. replace Sym1995 = 1 if SymYear <= 1995
(442 real changes made)

. label var Sym1995 "Date of sympts form at baseline"

. label values Sym1995 X1995

. tab Sym1995

  Date of |
  sympts form |
  at baseline |      Freq.      Percent      Cum.
-----+-----+-----+-----+
    1996+ |      195      30.61      30.61
    <=1995 |      442      69.39     100.00
-----+-----+
  Total |      637      100.00

.

. generate VoidYear = year(voiddate)
(8 missing values generated)

. tab VoidYear

  VoidYear |      Freq.      Percent      Cum.
-----+-----+-----+-----+
    1993 |      103      16.38      16.38
    1994 |      171      27.19      43.56
    1995 |      158      25.12      68.68
    1996 |      191      30.37      99.05
    1997 |       6       0.95     100.00
-----+-----+
  Total |      629      100.00

. generate Void1995 = 0

. replace Void1995 = 1 if VoidYear <= 1995
(432 real changes made)

. label var Void1995 "Date voiding logs turned in at baseline"

. label values Void1995 X1995

. tab Void1995

  Date |
  voiding |
  logs turned |
  in at |
  baseline |      Freq.      Percent      Cum.
-----+-----+-----+-----+
    1996+ |      205      32.18      32.18
    <=1995 |      432      67.82     100.00
-----+-----+
  Total |      637      100.00

.

.

end of do-file

```

ICDB ANALYSIS 4:

Fix Ns for Preliminary Analysis; Match to Simon et al. (1997)

```
log: P:\NIDDK\ICDB\ICDB_CD\SAS derived_data\Simon_11_11_2005a.log
log type: text
opened on: 15 Nov 2005, 08:57:07

. use "P:\NIDDK\ICDB\ICDB_CD\SAS derived_data\baseline.dta", clear

. *
. * Drop 11 cases specified by Propert / Brensinger
. * NOTE that 1 case (510018) is not included in baseline database
. 
. generate dropit = 0

. replace dropit=1 if subj == 210008
(1 real change made)

. replace dropit=1 if subj == 220007
(1 real change made)

. replace dropit=1 if subj == 220030
(1 real change made)

. replace dropit=1 if subj == 310020
(1 real change made)

. replace dropit=1 if subj == 310056
(1 real change made)

. replace dropit=1 if subj == 310084
(1 real change made)

. replace dropit=1 if subj == 410049
(1 real change made)

. replace dropit=1 if subj == 520047
(1 real change made)

. replace dropit=1 if subj == 420068
(1 real change made)

. replace dropit=1 if subj == 510018
(0 real changes made)

. replace dropit=1 if subj == 520020
(1 real change made)

. sort dropit

. 
. generate ScrYear = year(scrdate)

. tab ScrYear



| ScrYear | Freq. | Percent | Cum.   |
|---------|-------|---------|--------|
| 1993    | 99    | 15.54   | 15.54  |
| 1994    | 180   | 28.26   | 43.80  |
| 1995    | 155   | 24.33   | 68.13  |
| 1996    | 197   | 30.93   | 99.06  |
| 1997    | 6     | 0.94    | 100.00 |
| Total   | 637   | 100.00  |        |


. generate Scr1995 = 0

. replace Scr1995 = 1 if ScrYear <= 1995
(434 real changes made)
```

```

. label var Scr1995 "Screening signoff date pre-1996 ?"
. label values Scr1995 X1995
. tab Scr1995 dropit



| Screening<br>signoff<br>date<br>pre-1996 ? | dropit | 1  | Total |
|--------------------------------------------|--------|----|-------|
|                                            | 0      | 1  |       |
| 0                                          | 203    | 0  | 203   |
| 1                                          | 424    | 10 | 434   |
| Total                                      | 627    | 10 | 637   |



. drop if dropit == 1 | ScrYear > 1995
(213 observations deleted)

. generate ageYRS=int(age)

. * generate ageC=int(age)
. * replace ageC = 18 if ageC<=34
. * replace ageC = 44 if (ageC>34) & (ageC<=44)
. * replace ageC = 54 if (ageC>44) & (ageC<=54)
. * replace ageC = 55 if (ageC>54)
. * label define ages 18"18-34" 44"35-44" 54"45-54" 55"55+"
. * label values ageC ages
. * tab ageYRS ageC, missing
. * tab ageC, missing
. summarize age



| Variable | Obs | Mean   | Std. Dev. | Min      | Max      |
|----------|-----|--------|-----------|----------|----------|
| age      | 424 | 44.313 | 13.72838  | 19.27173 | 82.32991 |



. summarize shx_1



| Variable | Obs | Mean     | Std. Dev. | Min | Max |
|----------|-----|----------|-----------|-----|-----|
| shx_1    | 424 | 32.15094 | 14.49842  | 3   | 73  |



. label define sex 1"male" 2"female"
. label values sex sex
. tab sex, missing



| sex    | Freq. | Percent | Cum.   |
|--------|-------|---------|--------|
| male   | 36    | 8.49    | 8.49   |
| female | 388   | 91.51   | 100.00 |
| Total  | 424   | 100.00  |        |



. label define race1 1"aleut" 2"asian" 3"black" 4"caucasian" 5"multi-racial"
6"other" 7"no answer" 8"> unknown"
. label values race race1
. generate raceC = race
. replace raceC = 1 if race==4
(386 real changes made)

```

```

. replace raceC = 2 if race==3
(24 real changes made)

. replace raceC = 3 if (race<3) | (race>4)
(14 real changes made)

. label define race2 1"White" 2"Black" 3"Other+Unknown"

. label values raceC race2

. tab race raceC, missing

```

race	raceC			Total
	White	Black	Other+Unk	
aleut	0	0	2	2
asian	0	0	5	5
black	0	24	0	24
caucasian	386	0	0	386
multi-racial	0	0	3	3
other	0	0	2	2
no answer	0	0	1	1
unknown	0	0	1	1
Total	386	24	14	424

```
. tab raceC, missing
```

raceC	Freq.	Percent	Cum.
White	386	91.04	91.04
Black	24	5.66	96.70
Other+Unknown	14	3.30	100.00
Total	424	100.00	

```
. tab ethnic, missing
```

origin (latino or hispanic)	Freq.	Percent	Cum.
0	402	94.81	94.81
1	21	4.95	99.76
.	1	0.24	100.00
Total	424	100.00	

```
. label define marstat1 1"married" 2"liv w/partnr" 3"sep" 4"div" 5"widow"
6"nvr marr"
```

```

. label values mar_st marstat1

. generate marst2 = mar_st

. replace marst2 = 1 if (mar_st<3)
(20 real changes made)

. replace marst2 = 2 if (mar_st>2)
(134 real changes made)

. label define marstat2 1"Partnered" 2"Alone"

. label values marst2 marstat2

```

```
. tab mar_st marst2, missing
```

marital status	marst2		
	Partnered	Alone	Total
married	270	0	270
liv w/partnr	20	0	20
sep	0	8	8
div	0	43	43
widow	0	12	12
nvr marr	0	71	71
Total	290	134	424

```
. tab marst2, missing
```

marst2	Freq.	Percent	Cum.
Partnered	290	68.40	68.40
Alone	134	31.60	100.00
Total	424	100.00	

```
. label define edustat1 1"< HS" 2"some HS" 3"HS grad(or GED)" 4"college" 5"grad school"
```

```
. label values ed_level edustat1
```

```
. generate educ2 = ed_level
```

```
. replace educ2 = 1 if ed_level<4  
(177 real changes made)
```

```
. replace educ2 = 2 if ed_level==4  
(162 real changes made)
```

```
. replace educ2 = 3 if ed_level==5  
(76 real changes made)
```

```
. label define educstat2 1"HS or less" 2"College" 3"Advanced"
```

```
. label values educ2 educstat2
```

```
. tab ed_level educ2, missing
```

level of education	HS or les	educ2 College	Advanced	Total
< HS	9	0	0	9
some HS	17	0	0	17
HS grad(or GED)	160	0	0	160
college	0	162	0	162
grad school	0	0	76	76
Total	186	162	76	424

```
. tab educ2, missing
```

educ2	Freq.	Percent	Cum.
HS or less	186	43.87	43.87
College	162	38.21	82.08
Advanced	76	17.92	100.00
Total	424	100.00	

```
. label define emp_cd 1"FT,emp" 2"PT, emp" 3"Home FT,emp" 4"Home PT,emp"
```

```

5 "Homemaker" 6 "Laid off NE"
> 7 "Disabled NE" 8 "Retired NE" 9 "Student NE" 10 "On leave, emp" 11 "PT i/o
home, Emp" 12 "IC, NE" 13 "Moved,
> NE" 14 "Between jobs"

. label values emp_st emp_cd

. generate employ2 = 3

. replace employ2 = 1 if (emp_st <5) | (emp_st ==11) | (emp_st == 10)
(263 real changes made)

. replace employ2 = 2 if (emp_st == 5)
(71 real changes made)

. label define employ2 1 "Employed" 2 "Homemaker" 3 "Not Employed"

. label values employ2 employ2

. tab emp_st employ2, missing



| employment<br>status | employ2  |           |           | Total |
|----------------------|----------|-----------|-----------|-------|
|                      | Employed | Homemaker | Not Emplo |       |
| FT, emp              | 176      | 0         | 0         | 176   |
| PT, emp              | 69       | 0         | 0         | 69    |
| Home FT, emp         | 8        | 0         | 0         | 8     |
| Home PT, emp         | 10       | 0         | 0         | 10    |
| Homemaker            | 0        | 71        | 0         | 71    |
| Laid off NE          | 0        | 0         | 10        | 10    |
| Disabled NE          | 0        | 0         | 33        | 33    |
| Retired NE           | 0        | 0         | 38        | 38    |
| Student NE           | 0        | 0         | 9         | 9     |
| Total                | 263      | 71        | 90        | 424   |



. tab employ2, missing



| employ2      | Freq. | Percent | Cum.   |
|--------------|-------|---------|--------|
| Employed     | 263   | 62.03   | 62.03  |
| Homemaker    | 71    | 16.75   | 78.77  |
| Not Employed | 90    | 21.23   | 100.00 |
| Total        | 424   | 100.00  |        |



. tab job_chng, missing



| urinary<br>symptoms -<br>job change | Freq. | Percent | Cum.   |
|-------------------------------------|-------|---------|--------|
| 0                                   | 270   | 63.68   | 63.68  |
| 1                                   | 46    | 10.85   | 74.53  |
| .                                   | 108   | 25.47   | 100.00 |
| Total                               | 424   | 100.00  |        |



. label define income 1 "<$30K" 2 ">$30K"

. label values income income

```

```
. tab income, missing

  household income |      Freq.     Percent        Cum.
-----+-----+-----+
    <$30K |       132      31.13      31.13
    >$30K |       292      68.87     100.00
-----+-----+
  Total |      424      100.00

.

end of do-file

. log close
  log: P:\NIDDK\ICDB\ICDB_CD\SAS_derived_data\Simon_11_11_2005a.log
  log type: text
closed on: 15 Nov 2005, 08:57:20
```

ICDB ANALYSIS 5: Longitudinal File

```
log: P:\NIDDK\ICDB\ICDB_CD\SAS derived_data\longitudianl.txt
log type: text
opened on: 16 Nov 2005, 15:09:43
```

```
. generate time_integer = int(timeseen)
. tab time_integer
```

time_integer	r	Freq.	Percent	Cum.
-2		1	0.01	0.01
-1		16	0.15	0.16
0		1,546	14.51	14.67
1		658	6.17	20.84
2		536	5.03	25.87
3		602	5.65	31.52
4		332	3.12	34.64
5		314	2.95	37.58
6		434	4.07	41.66
7		270	2.53	44.19
8		268	2.52	46.71
9		386	3.62	50.33
10		228	2.14	52.47
11		327	3.07	55.54
12		341	3.20	58.74
13		216	2.03	60.76
14		263	2.47	63.23
15		260	2.44	65.67
16		148	1.39	67.06
17		202	1.90	68.96
18		272	2.55	71.51
19		123	1.15	72.66
20		188	1.76	74.43
21		224	2.10	76.53
22		126	1.18	77.71
23		186	1.75	79.46
24		241	2.26	81.72
25		120	1.13	82.85
26		139	1.30	84.15
27		185	1.74	85.89
28		76	0.71	86.60
29		113	1.06	87.66
30		153	1.44	89.10
31		68	0.64	89.73
32		117	1.10	90.83
33		118	1.11	91.94
34		76	0.71	92.65
35		119	1.12	93.77
36		128	1.20	94.97
37		57	0.53	95.50
38		89	0.84	96.34
39		70	0.66	97.00
40		28	0.26	97.26
41		56	0.53	97.79
42		42	0.39	98.18
43		20	0.19	98.37
44		26	0.24	98.61
45		13	0.12	98.73
46		18	0.17	98.90
47		60	0.56	99.47
48		40	0.38	99.84

49	7	0.07	99.91
50	8	0.08	99.98
52	2	0.02	100.00
Total	10,656	100.00	

```

. label define status 1"active" 2"lost to followup" 3"withdrawn"
. label values fup_stat status
. tab fup_stat if timeseen==0.00

```

follow-up status	Freq.	Percent	Cum.
active	405	63.58	63.58
lost to followup	109	17.11	80.69
withdrawn	123	19.31	100.00
Total	637	100.00	

```

. * pause
. *tab max_fup fup_stat if timeseen==0.00, missing
. *tab max_fup fup_stat
. tab subj fup_stat if subj <= 110100

```

subj	follow-up status			Total
	active	lost to f	withdrawn	
110027	0	27	0	27
110029	0	32	0	32
110039	0	27	0	27
110040	25	0	0	25
110045	0	28	0	28
110049	28	0	0	28
110051	0	20	0	20
110052	0	27	0	27
110053	23	0	0	23
110055	0	21	0	21
110057	26	0	0	26
110058	0	0	24	24
110059	0	22	0	22
110060	0	9	0	9
110062	25	0	0	25
110065	0	6	0	6
110066	0	0	12	12
110067	0	15	0	15
110068	0	6	0	6
110069	0	8	0	8
110070	0	19	0	19
110074	0	0	5	5
110075	0	0	17	17
110076	0	0	6	6
110077	0	21	0	21
110078	26	0	0	26
110080	0	25	0	25
110081	14	0	0	14
110082	27	0	0	27
110083	0	0	5	5
110084	0	0	6	6
110085	0	0	2	2
110086	24	0	0	24
110087	21	0	0	21
110088	0	0	5	5
110091	19	0	0	19
110092	0	18	0	18

110093	0	11	0	11
110094	17	0	0	17
110095	16	0	0	16
110096	0	7	0	7
110097	0	0	15	15
110099	0	0	12	12
110100	18	0	0	18
Total	309	349	109	767

```

. keep if fup_stat ==1
(2475 observations deleted)

. * pause
.

. generate timel = .
(8181 missing values generated)

. label var timel "Months: 0, 1.5 to 4.499, 4.5 to 7.499, 7.5 to 10.499 ... "
.

. replace timel = . if timeseen < 0
(0 real changes made)

. replace timel = 0 if timeseen == 0.00
(405 real changes made)

. replace timel = . if timeseen > 0 & timeseen < 1.5
(0 real changes made)

.

. replace timel = 3 if timeseen >= 1.5 & timeseen < 4.5
(1070 real changes made)

. replace timel = 6 if timeseen >= 4.5 & timeseen < 7.5
(773 real changes made)

. replace timel = 9 if timeseen >= 7.5 & timeseen < 10.5
(653 real changes made)

. replace timel = 12 if timeseen >= 10.5 & timeseen < 13.5
(721 real changes made)

.

. replace timel = 15 if timeseen >= 13.5 & timeseen < 16.5
(562 real changes made)

. replace timel = 18 if timeseen >= 16.5 & timeseen < 19.5
(482 real changes made)

. replace timel = 21 if timeseen >= 19.5 & timeseen < 22.5
(442 real changes made)

. replace timel = 24 if timeseen >= 22.5 & timeseen < 25.5
(480 real changes made)

.

. replace timel = 27 if timeseen >= 25.5 & timeseen < 28.5
(354 real changes made)

. replace timel = 30 if timeseen >= 28.5 & timeseen < 31.5
(301 real changes made)

. replace timel = 33 if timeseen >= 31.5 & timeseen < 34.5
(267 real changes made)

. replace timel = 36 if timeseen >= 34.5 & timeseen < 37.5

```

(308 real changes made)

. replace timel = 39 if timeseen >= 37.5 & timeseen < 40.5
(180 real changes made)

. replace timel = 42 if timeseen >= 40.5 & timeseen < 43.5
(112 real changes made)

. replace timel = 45 if timeseen >= 43.5 & timeseen < 46.5
(59 real changes made)

. replace timel = 48 if timeseen >= 46.5 & timeseen < 49.5
(114 real changes made)

. replace timel = 51 if timeseen >= 49.5 & timeseen < 52.5
(12 real changes made)

. replace timel = 54 if timeseen >= 52.5 & timeseen < 55.5
(0 real changes made)

. replace timel = 57 if timeseen >= 55.5 & timeseen < 58.5
(0 real changes made)

. replace timel = 60 if timeseen >= 58.5 & timeseen < 61.5
(0 real changes made)

. tabulate timel time_integer

Months:	0,	1.5 to	4.499,	4.5 to	7.499, 7.5	to 10.499	...	time_integer							Total
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	
0	405	0	0	0	0	0	0	0	0	0	0	0	0	0	405
3	0	159	360	424	127	0	0	0	0	0	0	0	0	0	1,070
6	0	0	0	0	94	223	338	0	0	0	0	0	0	0	773
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	653
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	721
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	562
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	482
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	442
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	480
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	354
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	301
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	267
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	308
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180
42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114
51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	405	159	360	424	221	223	338	0	0	0	0	0	0	0	7,295

Months:	0,	1.5 to	4.499,	4.5 to	7.499, 7.5	to 10.499	...	time_integer							Total
	7	8	9	10	11	12	13	7	8	9	10	11	12	13	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	405
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,070
6	118	0	0	0	0	0	0	0	0	0	0	0	0	0	773
9	67	200	290	96	0	0	0	0	0	0	0	0	0	0	653
12	0	0	0	66	268	287	100	0	0	0	0	0	0	0	721
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	562
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	482

21	0	0	0	0	0	0	0	0	442
24	0	0	0	0	0	0	0	0	480
27	0	0	0	0	0	0	0	0	354
30	0	0	0	0	0	0	0	0	301
33	0	0	0	0	0	0	0	0	267
36	0	0	0	0	0	0	0	0	308
39	0	0	0	0	0	0	0	0	180
42	0	0	0	0	0	0	0	0	112
45	0	0	0	0	0	0	0	0	59
48	0	0	0	0	0	0	0	0	114
51	0	0	0	0	0	0	0	0	12
Total	185	200	290	162	268	287	166		7,295

Months: 0,
1.5 to
4.499,
4.5 to
7.499, 7.5
to 10.499
...

	14	15	16	time_integer 17	18	19	20	Total
0	0	0	0	0	0	0	0	405
3	0	0	0	0	0	0	0	1,070
6	0	0	0	0	0	0	0	773
9	0	0	0	0	0	0	0	653
12	0	0	0	0	0	0	0	721
15	212	214	70	0	0	0	0	562
18	0	0	35	162	230	55	0	482
21	0	0	0	0	0	39	145	442
24	0	0	0	0	0	0	0	480
27	0	0	0	0	0	0	0	354
30	0	0	0	0	0	0	0	301
33	0	0	0	0	0	0	0	267
36	0	0	0	0	0	0	0	308
39	0	0	0	0	0	0	0	180
42	0	0	0	0	0	0	0	112
45	0	0	0	0	0	0	0	59
48	0	0	0	0	0	0	0	114
51	0	0	0	0	0	0	0	12
Total	212	214	105	162	230	94	145	7,295

Months: 0,
1.5 to
4.499,
4.5 to
7.499, 7.5
to 10.499
...

	21	22	23	time_integer 24	25	26	27	Total
0	0	0	0	0	0	0	0	405
3	0	0	0	0	0	0	0	1,070
6	0	0	0	0	0	0	0	773
9	0	0	0	0	0	0	0	653
12	0	0	0	0	0	0	0	721
15	0	0	0	0	0	0	0	562
18	0	0	0	0	0	0	0	482
21	189	69	0	0	0	0	0	442
24	0	34	161	220	65	0	0	480
27	0	0	0	0	40	121	154	354
30	0	0	0	0	0	0	0	301
33	0	0	0	0	0	0	0	267
36	0	0	0	0	0	0	0	308
39	0	0	0	0	0	0	0	180
42	0	0	0	0	0	0	0	112
45	0	0	0	0	0	0	0	59
48	0	0	0	0	0	0	0	114
51	0	0	0	0	0	0	0	12
Total	189	103	161	220	105	121	154	7,295

Months: 0,
1.5 to
4.499,
4.5 to
7.499, 7.5
to 10.499
...

	28	29	30	time_integer 31	32	33	34	Total
--	----	----	----	--------------------	----	----	----	-------

0	0	0	0	0	0	0	0	0	405
3	0	0	0	0	0	0	0	0	1,070
6	0	0	0	0	0	0	0	0	773
9	0	0	0	0	0	0	0	0	653
12	0	0	0	0	0	0	0	0	721
15	0	0	0	0	0	0	0	0	562
18	0	0	0	0	0	0	0	0	482
21	0	0	0	0	0	0	0	0	442
24	0	0	0	0	0	0	0	0	480
27	39	0	0	0	0	0	0	0	354
30	29	103	131	38	0	0	0	0	301
33	0	0	0	17	109	102	39	267	
36	0	0	0	0	0	0	30	308	
39	0	0	0	0	0	0	0	180	
42	0	0	0	0	0	0	0	112	
45	0	0	0	0	0	0	0	59	
48	0	0	0	0	0	0	0	0	114
51	0	0	0	0	0	0	0	0	12
Total	68	103	131	55	109	102	69	7,295	

Months: 0,
1.5 to
4.499,
4.5 to
7.499, 7.5
to 10.499
...

time_integer								Total
0	0	0	0	0	0	0	0	405
3	0	0	0	0	0	0	0	1,070
6	0	0	0	0	0	0	0	773
9	0	0	0	0	0	0	0	653
12	0	0	0	0	0	0	0	721
15	0	0	0	0	0	0	0	562
18	0	0	0	0	0	0	0	482
21	0	0	0	0	0	0	0	442
24	0	0	0	0	0	0	0	480
27	0	0	0	0	0	0	0	354
30	0	0	0	0	0	0	0	301
33	0	0	0	0	0	0	0	267
36	114	124	40	0	0	0	0	308
39	0	0	15	85	66	14	0	180
42	0	0	0	0	0	12	53	112
45	0	0	0	0	0	0	0	59
48	0	0	0	0	0	0	0	114
51	0	0	0	0	0	0	0	12
Total	114	124	55	85	66	26	53	7,295

Months: 0,
1.5 to
4.499,
4.5 to
7.499, 7.5
to 10.499
...

time_integer								Total
0	0	0	0	0	0	0	0	405
3	0	0	0	0	0	0	0	1,070
6	0	0	0	0	0	0	0	773
9	0	0	0	0	0	0	0	653
12	0	0	0	0	0	0	0	721
15	0	0	0	0	0	0	0	562
18	0	0	0	0	0	0	0	482
21	0	0	0	0	0	0	0	442
24	0	0	0	0	0	0	0	480
27	0	0	0	0	0	0	0	354
30	0	0	0	0	0	0	0	301
33	0	0	0	0	0	0	0	267
36	0	0	0	0	0	0	0	308
39	0	0	0	0	0	0	0	180
42	40	7	0	0	0	0	0	112
45	0	11	26	13	9	0	0	59
48	0	0	0	0	9	60	40	114
51	0	0	0	0	0	0	0	12
Total	40	18	26	13	18	60	40	7,295

Months: 0,

	1.5 to 4.499, 4.5 to 7.499, 7.5 to 10.499 ...	time_integer	49	50	52	Total
0	0	0	0	0	0	405
3	0	0	0	0	0	1,070
6	0	0	0	0	0	773
9	0	0	0	0	0	653
12	0	0	0	0	0	721
15	0	0	0	0	0	562
18	0	0	0	0	0	482
21	0	0	0	0	0	442
24	0	0	0	0	0	480
27	0	0	0	0	0	354
30	0	0	0	0	0	301
33	0	0	0	0	0	267
36	0	0	0	0	0	308
39	0	0	0	0	0	180
42	0	0	0	0	0	112
45	0	0	0	0	0	59
48	5	0	0	0	0	114
51	2	8	2	0	0	12
Total		7	8	2	0	7,295

. tab purg1c3b

	baseline pain score -- 3 levels	Freq.	Percent	Cum.
1	1	2,259	27.61	27.61
2	2	4,093	50.03	77.64
3	3	1,829	22.36	100.00
Total		8,181	100.00	

. generate Paintimel = (100*purg1c3b) + timel
(886 missing values generated)

. tab Paintimel timel, missing

	Paintimel	Months: 0, 1.5 to 4.499, 4.5 to 7.499, 7.5 to 10.499 ...	0	3	6	9	12	15	18	Total
100	100	107	0	0	0	0	0	0	0	107
103	0	0	282	0	0	0	0	0	0	282
106	0	0	0	197	0	0	0	0	0	197
109	0	0	0	0	178	0	0	0	0	178
112	0	0	0	0	0	190	0	0	0	190
115	0	0	0	0	0	0	157	0	0	157
118	0	0	0	0	0	0	0	137	0	137
121	0	0	0	0	0	0	0	0	0	132
124	0	0	0	0	0	0	0	0	0	133
127	0	0	0	0	0	0	0	0	0	104
130	0	0	0	0	0	0	0	0	0	97
133	0	0	0	0	0	0	0	0	0	76
136	0	0	0	0	0	0	0	0	0	96
139	0	0	0	0	0	0	0	0	0	60
142	0	0	0	0	0	0	0	0	0	35
145	0	0	0	0	0	0	0	0	0	15
148	0	0	0	0	0	0	0	0	0	31
151	0	0	0	0	0	0	0	0	0	1
200	200	208	0	0	0	0	0	0	0	208
203	0	0	546	0	0	0	0	0	0	546
206	0	0	0	399	0	0	0	0	0	399
209	0	0	0	0	322	0	0	0	0	322
212	0	0	0	0	0	372	0	0	0	372
215	0	0	0	0	0	0	270	0	0	270
218	0	0	0	0	0	0	0	242	0	242
221	0	0	0	0	0	0	0	0	0	220
224	0	0	0	0	0	0	0	0	0	234
227	0	0	0	0	0	0	0	0	0	182
230	0	0	0	0	0	0	0	0	0	149
233	0	0	0	0	0	0	0	0	0	137
236	0	0	0	0	0	0	0	0	0	143

239	0	0	0	0	0	0	0	0	85
242	0	0	0	0	0	0	0	0	49
245	0	0	0	0	0	0	0	0	32
248	0	0	0	0	0	0	0	0	47
251	0	0	0	0	0	0	0	0	9
300	90	0	0	0	0	0	0	0	90
303	0	242	0	0	0	0	0	0	242
306	0	0	177	0	0	0	0	0	177
309	0	0	0	153	0	0	0	0	153
312	0	0	0	0	159	0	0	0	159
315	0	0	0	0	0	135	0	0	135
318	0	0	0	0	0	0	103	0	103
321	0	0	0	0	0	0	0	0	90
324	0	0	0	0	0	0	0	0	113
327	0	0	0	0	0	0	0	0	68
330	0	0	0	0	0	0	0	0	55
333	0	0	0	0	0	0	0	0	54
336	0	0	0	0	0	0	0	0	69
339	0	0	0	0	0	0	0	0	35
342	0	0	0	0	0	0	0	0	28
345	0	0	0	0	0	0	0	0	12
348	0	0	0	0	0	0	0	0	36
351	0	0	0	0	0	0	0	0	2
.	0	0	0	0	0	0	0	0	886
Total	405	1,070	773	653	721	562	482	8,181	

Paintime1	Months: 0, 1.5 to 4.499, 4.5 to 7.499, 7.5 to 10.499 ...							Total
	21	24	27	30	33	36	39	
100	0	0	0	0	0	0	0	107
103	0	0	0	0	0	0	0	282
106	0	0	0	0	0	0	0	197
109	0	0	0	0	0	0	0	178
112	0	0	0	0	0	0	0	190
115	0	0	0	0	0	0	0	157
118	0	0	0	0	0	0	0	137
121	132	0	0	0	0	0	0	132
124	0	133	0	0	0	0	0	133
127	0	0	104	0	0	0	0	104
130	0	0	0	97	0	0	0	97
133	0	0	0	0	76	0	0	76
136	0	0	0	0	0	96	0	96
139	0	0	0	0	0	0	60	60
142	0	0	0	0	0	0	0	35
145	0	0	0	0	0	0	0	15
148	0	0	0	0	0	0	0	31
151	0	0	0	0	0	0	0	1
200	0	0	0	0	0	0	0	208
203	0	0	0	0	0	0	0	546
206	0	0	0	0	0	0	0	399
209	0	0	0	0	0	0	0	322
212	0	0	0	0	0	0	0	372
215	0	0	0	0	0	0	0	270
218	0	0	0	0	0	0	0	242
221	220	0	0	0	0	0	0	220
224	0	234	0	0	0	0	0	234
227	0	0	182	0	0	0	0	182
230	0	0	0	149	0	0	0	149
233	0	0	0	0	137	0	0	137
236	0	0	0	0	0	143	0	143
239	0	0	0	0	0	0	85	85
242	0	0	0	0	0	0	0	49
245	0	0	0	0	0	0	0	32
248	0	0	0	0	0	0	0	47
251	0	0	0	0	0	0	0	9
300	0	0	0	0	0	0	0	90
303	0	0	0	0	0	0	0	242
306	0	0	0	0	0	0	0	177
309	0	0	0	0	0	0	0	153
312	0	0	0	0	0	0	0	159
315	0	0	0	0	0	0	0	135
318	0	0	0	0	0	0	0	103
321	90	0	0	0	0	0	0	90
324	0	113	0	0	0	0	0	113
327	0	0	68	0	0	0	0	68
330	0	0	0	55	0	0	0	55
333	0	0	0	0	54	0	0	54
336	0	0	0	0	0	69	0	69
339	0	0	0	0	0	0	35	35
342	0	0	0	0	0	0	0	28
345	0	0	0	0	0	0	0	12

348	0	0	0	0	0	0	0		36
351	0	0	0	0	0	0	0		2
.	0	0	0	0	0	0	0		886
Total	442	480	354	301	267	308	180		8,181

Paintime1	Months: 0, 1.5 to 4.499, 4.5 to 7.499, 7.5 to 10.499							Total
	42	45	48	51	.			
100	0	0	0	0	0			107
103	0	0	0	0	0			282
106	0	0	0	0	0			197
109	0	0	0	0	0			178
112	0	0	0	0	0			190
115	0	0	0	0	0			157
118	0	0	0	0	0			137
121	0	0	0	0	0			132
124	0	0	0	0	0			133
127	0	0	0	0	0			104
130	0	0	0	0	0			97
133	0	0	0	0	0			76
136	0	0	0	0	0			96
139	0	0	0	0	0			60
142	35	0	0	0	0			35
145	0	15	0	0	0			15
148	0	0	31	0	0			31
151	0	0	0	1	0			1
200	0	0	0	0	0			208
203	0	0	0	0	0			546
206	0	0	0	0	0			399
209	0	0	0	0	0			322
212	0	0	0	0	0			372
215	0	0	0	0	0			270
218	0	0	0	0	0			242
221	0	0	0	0	0			220
224	0	0	0	0	0			234
227	0	0	0	0	0			182
230	0	0	0	0	0			149
233	0	0	0	0	0			137
236	0	0	0	0	0			143
239	0	0	0	0	0			85
242	49	0	0	0	0			49
245	0	32	0	0	0			32
248	0	0	47	0	0			47
251	0	0	0	9	0			9
300	0	0	0	0	0			90
303	0	0	0	0	0			242
306	0	0	0	0	0			177
309	0	0	0	0	0			153
312	0	0	0	0	0			159
315	0	0	0	0	0			135
318	0	0	0	0	0			103
321	0	0	0	0	0			90
324	0	0	0	0	0			113
327	0	0	0	0	0			68
330	0	0	0	0	0			55
333	0	0	0	0	0			54
336	0	0	0	0	0			69
339	0	0	0	0	0			35
342	28	0	0	0	0			28
345	0	12	0	0	0			12
348	0	0	36	0	0			36
351	0	0	0	2	0			2
.	0	0	0	0	886			886
Total	112	59	114	12	886			8,181

. tab Paintime1 purglc3b, missing

Paintime1	baseline pain score -- 3 levels			Total
	1	2	3	
100	107	0	0	107
103	282	0	0	282
106	197	0	0	197
109	178	0	0	178
112	190	0	0	190

115	157	0	0	157
118	137	0	0	137
121	132	0	0	132
124	133	0	0	133
127	104	0	0	104
130	97	0	0	97
133	76	0	0	76
136	96	0	0	96
139	60	0	0	60
142	35	0	0	35
145	15	0	0	15
148	31	0	0	31
151	1	0	0	1
200	0	208	0	208
203	0	546	0	546
206	0	399	0	399
209	0	322	0	322
212	0	372	0	372
215	0	270	0	270
218	0	242	0	242
221	0	220	0	220
224	0	234	0	234
227	0	182	0	182
230	0	149	0	149
233	0	137	0	137
236	0	143	0	143
239	0	85	0	85
242	0	49	0	49
245	0	32	0	32
248	0	47	0	47
251	0	9	0	9
300	0	0	90	90
303	0	0	242	242
306	0	0	177	177
309	0	0	153	153
312	0	0	159	159
315	0	0	135	135
318	0	0	103	103
321	0	0	90	90
324	0	0	113	113
327	0	0	68	68
330	0	0	55	55
333	0	0	54	54
336	0	0	69	69
339	0	0	35	35
342	0	0	28	28
345	0	0	12	12
348	0	0	36	36
351	0	0	2	2
.	231	447	208	886
Total	2,259	4,093	1,829	8,181

```
. sort Paintimel

. *by Paintimel: summarize purg_1
. oneway purg_1 Paintimel, tabulate

| Summary of pain score over last 4
| weeks
Paintimel | Mean Std. Dev. Freq.
-----+-----+-----+-----+
100 | 1.635514 1.0585904 107
103 | 2.75 2.1394715 140
106 | 2.49 2.1296132 100
```

109	2.3956044	1.9881824	91
112	2.2727273	2.137222	99
115	2.7037037	2.4054337	81
118	2.5820896	2.3429407	67
121	2.3636364	2.0277791	66
124	2.625	2.3128351	64
127	2.1111111	1.7338654	54
130	1.7959184	1.7075762	49
133	1.6578947	1.7441224	38
136	2.0816327	1.9667733	49
139	2.4333333	2.635086	30
142	1.5294118	1.3746657	17
145	2.5555556	3.0459445	9
148	2.4666667	2.3563491	15
151	0	0	1
200	5.125	.79475941	208
203	4.5378788	2.121429	264
206	4.0502513	2.1526323	199
209	3.867052	2.2307864	173
212	4.1736842	2.0769183	190
215	4.1527778	2.0765741	144
218	3.9586777	2.3783632	121
221	3.8034188	2.0977793	117
224	3.9827586	2.2840953	116
227	3.7021277	2.3363872	94
230	3.5810811	2.013698	74
233	3.5070423	2.3106786	71
236	3.4714286	2.3450313	70
239	3.2888889	2.1492305	45
242	3.16	2.0141168	25
245	3.6875	2.120338	16
248	2.9583333	2.2161299	24
251	3	2	5
300	7.5555556	.75119547	90
303	5.8547009	2.1745588	117
306	5.3181818	2.6675808	88
309	5.3636364	2.3221422	77
312	5.5121951	2.4355591	82
315	5.1780822	2.3531449	73
318	5.1875	2.7879395	48
321	5.4285714	2.7386128	49
324	5.2372881	2.160292	59
327	4.8529412	2.9246326	34
330	4.8965517	2.8074496	29
333	4.8	2.6444477	30
336	5.0588235	2.5577118	34
339	5.0952381	2.4063408	21
342	5.2307692	2.0475126	13
345	5.5	2.0736441	6
348	6.1666667	2.1760731	18
351	0	0	1
<hr/>			
Total	3.9284982	2.4699709	3902

Source	Analysis of Variance				
	SS	df	MS	F	Prob > F
Between groups	6325.69828	53	119.352798	26.28	0.0000
Within groups	17473.3527	3848	4.54089208		
Total	23799.051	3901	6.10075647		

Bartlett's test for equal variances: chi2(51) = 490.2570 Prob>chi2 = 0.000

note: Bartlett's test performed on cells with positive variance:
2 single-observation cells not used

```
. * pause  
. .  
. generate time2 = .  
(8181 missing values generated)  
  
. label var time2 "Months: 0, .01 to 2.99, 3.00 to 5.99, 6.00 to 8.99 ..."  
  
. replace time2 = . if timeseen < 0  
(0 real changes made)  
  
. replace time2 = 0 if timeseen == 0  
(405 real changes made)  
  
. .  
. replace time2 = 3 if timeseen > 0 & timeseen < 3  
(1221 real changes made)  
  
. replace time2 = 6 if timeseen >= 3 & timeseen < 6  
(868 real changes made)  
  
. replace time2 = 9 if timeseen >= 6 & timeseen < 9  
(723 real changes made)  
  
. replace time2 = 12 if timeseen >= 9 & timeseen < 12  
(720 real changes made)  
  
. .  
. replace time2 = 15 if timeseen >= 12 & timeseen < 15  
(665 real changes made)  
  
. replace time2 = 18 if timeseen >= 15 & timeseen < 18  
(481 real changes made)  
  
. replace time2 = 21 if timeseen >= 18 & timeseen < 21  
(469 real changes made)  
  
. replace time2 = 24 if timeseen >= 21 & timeseen < 24  
(453 real changes made)  
  
. .  
. replace time2 = 27 if timeseen >= 24 & timeseen < 27  
(446 real changes made)  
  
. replace time2 = 30 if timeseen >= 27 & timeseen < 30  
(325 real changes made)  
  
. replace time2 = 33 if timeseen >= 30 & timeseen < 33  
(295 real changes made)  
  
. replace time2 = 36 if timeseen >= 33 & timeseen < 36  
(285 real changes made)  
  
. .  
. replace time2 = 39 if timeseen >= 36 & timeseen < 39  
(264 real changes made)  
  
. replace time2 = 42 if timeseen >= 39 & timeseen < 42  
(145 real changes made)  
  
. replace time2 = 45 if timeseen >= 42 & timeseen < 45  
(84 real changes made)  
  
. replace time2 = 48 if timeseen >= 45 & timeseen < 48  
(91 real changes made)
```

```
. replace time2 = 51 if timeseen >= 48 & timeseen < 51
(55 real changes made)
```

```
. replace time2 = 54 if timeseen >= 51 & timeseen < 54
(2 real changes made)
```

```
. replace time2 = 57 if timeseen >= 54 & timeseen < 57
(0 real changes made)
```

```
. replace time2 = 60 if timeseen >= 57 & timeseen < 60
(0 real changes made)
```

```
. tabulate time2 time_integer
```

Months:	time_integer							Total
0, .01 to 2.99, 3.00 to 5.99, 6.00 to 8.99 ...	0	1	2	3	4	5	6	
0	405	0	0	0	0	0	0	405
3	415	446	360	0	0	0	0	1,221
6	0	0	0	424	221	223	0	868
9	0	0	0	0	0	0	338	723
12	0	0	0	0	0	0	0	720
15	0	0	0	0	0	0	0	665
18	0	0	0	0	0	0	0	481
21	0	0	0	0	0	0	0	469
24	0	0	0	0	0	0	0	453
27	0	0	0	0	0	0	0	446
30	0	0	0	0	0	0	0	325
33	0	0	0	0	0	0	0	295
36	0	0	0	0	0	0	0	285
39	0	0	0	0	0	0	0	264
42	0	0	0	0	0	0	0	145
45	0	0	0	0	0	0	0	84
48	0	0	0	0	0	0	0	91
51	0	0	0	0	0	0	0	55
54	0	0	0	0	0	0	0	2
Total	820	446	360	424	221	223	338	7,997

Months:	time_integer							Total
0, .01 to 2.99, 3.00 to 5.99, 6.00 to 8.99 ...	7	8	9	10	11	12	13	
0	0	0	0	0	0	0	0	405
3	0	0	0	0	0	0	0	1,221
6	0	0	0	0	0	0	0	868
9	185	200	0	0	0	0	0	723
12	0	0	290	162	268	0	0	720
15	0	0	0	0	0	287	166	665
18	0	0	0	0	0	0	0	481
21	0	0	0	0	0	0	0	469
24	0	0	0	0	0	0	0	453
27	0	0	0	0	0	0	0	446
30	0	0	0	0	0	0	0	325
33	0	0	0	0	0	0	0	295
36	0	0	0	0	0	0	0	285
39	0	0	0	0	0	0	0	264
42	0	0	0	0	0	0	0	145
45	0	0	0	0	0	0	0	84
48	0	0	0	0	0	0	0	91
51	0	0	0	0	0	0	0	55
54	0	0	0	0	0	0	0	2
Total	185	200	290	162	268	287	166	7,997

Months:	time_integer							Total
0, .01 to 2.99, 3.00 to 5.99, 6.00 to 8.99 ...	14	15	16	17	18	19	20	
0	0	0	0	0	0	0	0	405
3	0	0	0	0	0	0	0	1,221
6	0	0	0	0	0	0	0	868
9	0	0	0	0	0	0	0	723
12	0	0	0	0	0	0	0	720
15	212	0	0	0	0	0	0	665

18	0	214	105	162	0	0	0	481	
21	0	0	0	0	230	94	145	469	
24	0	0	0	0	0	0	0	453	
27	0	0	0	0	0	0	0	446	
30	0	0	0	0	0	0	0	325	
33	0	0	0	0	0	0	0	295	
36	0	0	0	0	0	0	0	285	
39	0	0	0	0	0	0	0	264	
42	0	0	0	0	0	0	0	145	
45	0	0	0	0	0	0	0	84	
48	0	0	0	0	0	0	0	91	
51	0	0	0	0	0	0	0	55	
54	0	0	0	0	0	0	0	2	
Total		212	214	105	162	230	94	145	7,997

Months:
0, .01 to
2.99, 3.00
to 5.99,
6.00 to
8.99 ...

				time_integer					
		21	22	23	24	25	26	27	Total
0	0	0	0	0	0	0	0	0	405
3	0	0	0	0	0	0	0	0	1,221
6	0	0	0	0	0	0	0	0	868
9	0	0	0	0	0	0	0	0	723
12	0	0	0	0	0	0	0	0	720
15	0	0	0	0	0	0	0	0	665
18	0	0	0	0	0	0	0	0	481
21	0	0	0	0	0	0	0	0	469
24	189	103	161	0	0	0	0	0	453
27	0	0	0	220	105	121	0	0	446
30	0	0	0	0	0	0	0	154	325
33	0	0	0	0	0	0	0	0	295
36	0	0	0	0	0	0	0	0	285
39	0	0	0	0	0	0	0	0	264
42	0	0	0	0	0	0	0	0	145
45	0	0	0	0	0	0	0	0	84
48	0	0	0	0	0	0	0	0	91
51	0	0	0	0	0	0	0	0	55
54	0	0	0	0	0	0	0	0	2
Total		189	103	161	220	105	121	154	7,997

Months:
0, .01 to
2.99, 3.00
to 5.99,
6.00 to
8.99 ...

				time_integer					
		28	29	30	31	32	33	34	Total
0	0	0	0	0	0	0	0	0	405
3	0	0	0	0	0	0	0	0	1,221
6	0	0	0	0	0	0	0	0	868
9	0	0	0	0	0	0	0	0	723
12	0	0	0	0	0	0	0	0	720
15	0	0	0	0	0	0	0	0	665
18	0	0	0	0	0	0	0	0	481
21	0	0	0	0	0	0	0	0	469
24	0	0	0	0	0	0	0	0	453
27	0	0	0	0	0	0	0	0	446
30	68	103	0	0	0	0	0	0	325
33	0	0	131	55	109	0	0	0	295
36	0	0	0	0	0	0	102	69	285
39	0	0	0	0	0	0	0	0	264
42	0	0	0	0	0	0	0	0	145
45	0	0	0	0	0	0	0	0	84
48	0	0	0	0	0	0	0	0	91
51	0	0	0	0	0	0	0	0	55
54	0	0	0	0	0	0	0	0	2
Total		68	103	131	55	109	102	69	7,997

Months:
0, .01 to
2.99, 3.00
to 5.99,
6.00 to
8.99 ...

				time_integer					
		35	36	37	38	39	40	41	Total
0	0	0	0	0	0	0	0	0	405
3	0	0	0	0	0	0	0	0	1,221
6	0	0	0	0	0	0	0	0	868
9	0	0	0	0	0	0	0	0	723
12	0	0	0	0	0	0	0	0	720
15	0	0	0	0	0	0	0	0	665
18	0	0	0	0	0	0	0	0	481
21	0	0	0	0	0	0	0	0	469
24	0	0	0	0	0	0	0	0	453
27	0	0	0	0	0	0	0	0	446
30	0	0	0	0	0	0	0	0	325
33	0	0	0	0	0	0	0	0	295

36	114	0	0	0	0	0	0	285
39	0	124	55	85	0	0	0	264
42	0	0	0	0	66	26	53	145
45	0	0	0	0	0	0	0	84
48	0	0	0	0	0	0	0	91
51	0	0	0	0	0	0	0	55
54	0	0	0	0	0	0	0	2

Total | 114 124 55 85 66 26 53 | 7,997

Months:								
0, .01 to 2.99, 3.00 to 5.99, 6.00 to 8.99 ...								
	42	43	44	time_integer 45	46	47	48	Total
0	0	0	0	0	0	0	0	405
3	0	0	0	0	0	0	0	1,221
6	0	0	0	0	0	0	0	868
9	0	0	0	0	0	0	0	723
12	0	0	0	0	0	0	0	720
15	0	0	0	0	0	0	0	665
18	0	0	0	0	0	0	0	481
21	0	0	0	0	0	0	0	469
24	0	0	0	0	0	0	0	453
27	0	0	0	0	0	0	0	446
30	0	0	0	0	0	0	0	325
33	0	0	0	0	0	0	0	295
36	0	0	0	0	0	0	0	285
39	0	0	0	0	0	0	0	264
42	0	0	0	0	0	0	0	145
45	40	18	26	0	0	0	0	84
48	0	0	0	13	18	60	0	91
51	0	0	0	0	0	0	40	55
54	0	0	0	0	0	0	0	2

Total | 40 18 26 13 18 60 40 | 7,997

Months:				
0, .01 to 2.99, 3.00 to 5.99, 6.00 to 8.99 ...				
	49	50	52	Total
0	0	0	0	405
3	0	0	0	1,221
6	0	0	0	868
9	0	0	0	723
12	0	0	0	720
15	0	0	0	665
18	0	0	0	481
21	0	0	0	469
24	0	0	0	453
27	0	0	0	446
30	0	0	0	325
33	0	0	0	295
36	0	0	0	285
39	0	0	0	264
42	0	0	0	145
45	0	0	0	84
48	0	0	0	91
51	7	8	0	55
54	0	0	2	2

Total | 7 8 2 | 7,997

.
. tab purg1c3b

baseline pain score	Freq.	Percent	Cum.
-- 3 levels	2,259	27.61	27.61

2	4,093	50.03	77.64
3	1,829	22.36	100.00
Total	8,181	100.00	

. generate Paintime2 = (100*purg1c3b) + time2
(184 missing values generated)

. tab Paintime2 time2, missing

Paintime2	Months:								18	Total
	0	3	6	9	12	15	18	...		
100	107	0	0	0	0	0	0	0	0	107
103	0	316	0	0	0	0	0	0	0	316
106	0	0	232	0	0	0	0	0	0	232
109	0	0	0	190	0	0	0	0	0	190
112	0	0	0	0	199	0	0	0	0	199
115	0	0	0	0	0	170	0	0	0	170
118	0	0	0	0	0	0	136	0	0	136
121	0	0	0	0	0	0	0	0	0	143
124	0	0	0	0	0	0	0	0	0	131
127	0	0	0	0	0	0	0	0	0	128
130	0	0	0	0	0	0	0	0	0	97
133	0	0	0	0	0	0	0	0	0	83
136	0	0	0	0	0	0	0	0	0	89
139	0	0	0	0	0	0	0	0	0	79
142	0	0	0	0	0	0	0	0	0	44
145	0	0	0	0	0	0	0	0	0	24
148	0	0	0	0	0	0	0	0	0	24
151	0	0	0	0	0	0	0	0	0	16
200	208	0	0	0	0	0	0	0	0	208
203	0	621	0	0	0	0	0	0	0	621
206	0	0	442	0	0	0	0	0	0	442
209	0	0	0	372	0	0	0	0	0	372
212	0	0	0	0	358	0	0	0	0	358
215	0	0	0	0	0	328	0	0	0	328
218	0	0	0	0	0	0	240	0	0	240
221	0	0	0	0	0	0	0	0	0	230
224	0	0	0	0	0	0	0	0	0	216
227	0	0	0	0	0	0	0	0	0	223
230	0	0	0	0	0	0	0	0	0	168
233	0	0	0	0	0	0	0	0	0	146
236	0	0	0	0	0	0	0	0	0	143
239	0	0	0	0	0	0	0	0	0	127
242	0	0	0	0	0	0	0	0	0	69
245	0	0	0	0	0	0	0	0	0	39
248	0	0	0	0	0	0	0	0	0	38
251	0	0	0	0	0	0	0	0	0	27
254	0	0	0	0	0	0	0	0	0	2
300	90	0	0	0	0	0	0	0	0	90
303	0	284	0	0	0	0	0	0	0	284
306	0	0	194	0	0	0	0	0	0	194
309	0	0	0	161	0	0	0	0	0	161
312	0	0	0	0	163	0	0	0	0	163
315	0	0	0	0	0	167	0	0	0	167
318	0	0	0	0	0	0	105	0	0	105
321	0	0	0	0	0	0	0	0	0	96
324	0	0	0	0	0	0	0	0	0	106
327	0	0	0	0	0	0	0	0	0	95
330	0	0	0	0	0	0	0	0	0	60
333	0	0	0	0	0	0	0	0	0	66
336	0	0	0	0	0	0	0	0	0	53
339	0	0	0	0	0	0	0	0	0	58
342	0	0	0	0	0	0	0	0	0	32
345	0	0	0	0	0	0	0	0	0	21
348	0	0	0	0	0	0	0	0	0	29
351	0	0	0	0	0	0	0	0	0	12
.	0	0	0	0	0	0	0	0	0	184
Total	405	1,221	868	723	720	665	481	0	8,181	

Paintime2	Months:								39	Total
	21	24	27	30	33	36	39	...		
100	0	0	0	0	0	0	0	0	0	107
103	0	0	0	0	0	0	0	0	0	316
106	0	0	0	0	0	0	0	0	0	232
109	0	0	0	0	0	0	0	0	0	190
112	0	0	0	0	0	0	0	0	0	199
115	0	0	0	0	0	0	0	0	0	170
118	0	0	0	0	0	0	0	0	0	136
121	143	0	0	0	0	0	0	0	0	143
124	0	131	0	0	0	0	0	0	0	131
127	0	0	128	0	0	0	0	0	0	128
130	0	0	0	97	0	0	0	0	0	97
133	0	0	0	0	83	0	0	0	0	83
136	0	0	0	0	0	89	0	0	0	89
139	0	0	0	0	0	0	79	0	0	79
142	0	0	0	0	0	0	0	0	0	44
145	0	0	0	0	0	0	0	0	0	24

148	0	0	0	0	0	0	0	0	24
151	0	0	0	0	0	0	0	0	16
200	0	0	0	0	0	0	0	0	208
203	0	0	0	0	0	0	0	0	621
206	0	0	0	0	0	0	0	0	442
209	0	0	0	0	0	0	0	0	372
212	0	0	0	0	0	0	0	0	358
215	0	0	0	0	0	0	0	0	328
218	0	0	0	0	0	0	0	0	240
221	230	0	0	0	0	0	0	0	230
224	0	216	0	0	0	0	0	0	216
227	0	0	223	0	0	0	0	0	223
230	0	0	0	168	0	0	0	0	168
233	0	0	0	0	146	0	0	0	146
236	0	0	0	0	0	143	0	0	143
239	0	0	0	0	0	0	127	0	127
242	0	0	0	0	0	0	0	0	69
245	0	0	0	0	0	0	0	0	39
248	0	0	0	0	0	0	0	0	38
251	0	0	0	0	0	0	0	0	27
254	0	0	0	0	0	0	0	0	2
300	0	0	0	0	0	0	0	0	90
303	0	0	0	0	0	0	0	0	284
306	0	0	0	0	0	0	0	0	194
309	0	0	0	0	0	0	0	0	161
312	0	0	0	0	0	0	0	0	163
315	0	0	0	0	0	0	0	0	167
318	0	0	0	0	0	0	0	0	105
321	96	0	0	0	0	0	0	0	96
324	0	106	0	0	0	0	0	0	106
327	0	0	95	0	0	0	0	0	95
330	0	0	0	60	0	0	0	0	60
333	0	0	0	0	66	0	0	0	66
336	0	0	0	0	0	53	0	0	53
339	0	0	0	0	0	0	58	0	58
342	0	0	0	0	0	0	0	0	32
345	0	0	0	0	0	0	0	0	21
348	0	0	0	0	0	0	0	0	29
351	0	0	0	0	0	0	0	0	12
.	0	0	0	0	0	0	0	0	184

Total | 469 453 446 325 295 285 264 | 8,181

Paintime2	Months: 0, .01 to 2.99, 3.00 to 5.99, 6.00 to 8.99 ...					Total	
	42	45	48	51	54		
100	0	0	0	0	0	0	107
103	0	0	0	0	0	0	316
106	0	0	0	0	0	0	232
109	0	0	0	0	0	0	190
112	0	0	0	0	0	0	199
115	0	0	0	0	0	0	170
118	0	0	0	0	0	0	136
121	0	0	0	0	0	0	143
124	0	0	0	0	0	0	131
127	0	0	0	0	0	0	128
130	0	0	0	0	0	0	97
133	0	0	0	0	0	0	83
136	0	0	0	0	0	0	89
139	0	0	0	0	0	0	79
142	44	0	0	0	0	0	44
145	0	24	0	0	0	0	24
148	0	0	24	0	0	0	24
151	0	0	0	16	0	0	16
200	0	0	0	0	0	0	208
203	0	0	0	0	0	0	621
206	0	0	0	0	0	0	442
209	0	0	0	0	0	0	372
212	0	0	0	0	0	0	358
215	0	0	0	0	0	0	328
218	0	0	0	0	0	0	240
221	0	0	0	0	0	0	230
224	0	0	0	0	0	0	216
227	0	0	0	0	0	0	223
230	0	0	0	0	0	0	168
233	0	0	0	0	0	0	146
236	0	0	0	0	0	0	143
239	0	0	0	0	0	0	127
242	69	0	0	0	0	0	69
245	0	39	0	0	0	0	39
248	0	0	38	0	0	0	38
251	0	0	0	27	0	0	27
254	0	0	0	0	2	0	2
300	0	0	0	0	0	0	90
303	0	0	0	0	0	0	284
306	0	0	0	0	0	0	194
309	0	0	0	0	0	0	161
312	0	0	0	0	0	0	163
315	0	0	0	0	0	0	167
318	0	0	0	0	0	0	105
321	0	0	0	0	0	0	96
324	0	0	0	0	0	0	106
327	0	0	0	0	0	0	95
330	0	0	0	0	0	0	60
333	0	0	0	0	0	0	66

336	0	0	0	0	0	0	53
339	0	0	0	0	0	0	58
342	32	0	0	0	0	0	32
345	0	21	0	0	0	0	21
348	0	0	29	0	0	0	29
351	0	0	0	12	0	0	12
.	0	0	0	0	0	184	184
Total	145	84	91	55	2	184	8,181

. tab Paintime2 purglc3b, missing

Paintime2	baseline pain score -- 3 levels			Total
	1	2	3	
100	107	0	0	107
103	316	0	0	316
106	232	0	0	232
109	190	0	0	190
112	199	0	0	199
115	170	0	0	170
118	136	0	0	136
121	143	0	0	143
124	131	0	0	131
127	128	0	0	128
130	97	0	0	97
133	83	0	0	83
136	89	0	0	89
139	79	0	0	79
142	44	0	0	44
145	24	0	0	24
148	24	0	0	24
151	16	0	0	16
200	0	208	0	208
203	0	621	0	621
206	0	442	0	442
209	0	372	0	372
212	0	358	0	358
215	0	328	0	328
218	0	240	0	240
221	0	230	0	230
224	0	216	0	216
227	0	223	0	223
230	0	168	0	168
233	0	146	0	146
236	0	143	0	143
239	0	127	0	127
242	0	69	0	69
245	0	39	0	39
248	0	38	0	38
251	0	27	0	27
254	0	2	0	2
300	0	0	90	90
303	0	0	284	284
306	0	0	194	194
309	0	0	161	161
312	0	0	163	163
315	0	0	167	167
318	0	0	105	105
321	0	0	96	96
324	0	0	106	106
327	0	0	95	95
330	0	0	60	60
333	0	0	66	66
336	0	0	53	53
339	0	0	58	58
342	0	0	32	32
345	0	0	21	21
348	0	0	29	29

351	0	0	12	12
.	51	96	37	184
Total	2,259	4,093	1,829	8,181

```
. sort Paintime2
. *by Paintime2: summarize purg_1
. oneway purg_1 Paintime2, tabulate
```

Paintime2	Summary of pain score over last 4 weeks		
	Mean	Std. Dev.	Freq.
100	1.635514	1.0585904	107
103	2.93	2.266377	100
106	2.3813559	1.9738439	118
109	2.592233	2.1757888	103
112	2.3434343	2.0660601	99
115	2.5581395	2.2886145	86
118	2.5135135	2.2098363	74
121	2.4647887	2.2604107	71
124	2.5	2.0778499	64
127	2.40625	2.2090632	64
130	1.9	1.7172593	50
133	1.6585366	1.6372195	41
136	1.8837209	1.8924575	43
139	2.7142857	2.5015675	42
142	1.2857143	1.4880476	21
145	2.5	1.9903614	14
148	2.1666667	2.7906771	12
151	2.1111111	2.1473498	9
200	5.125	.79475941	208
203	4.715	2.0431956	200
206	4.3333333	2.1609356	225
209	3.7883598	2.0776603	189
212	3.973262	2.2056456	187
215	4.2742857	1.9635095	175
218	3.9596774	2.2100995	124
221	3.8559322	2.3288434	118
224	3.7522936	2.1651959	109
227	3.973913	2.3300511	115
230	3.7125	2.1060116	80
233	3.7228916	2.2213666	83
236	3.4029851	2.3998718	67
239	3.3768116	2.2102798	69
242	3.1714286	2.0791078	35
245	3.4090909	2.0391196	22
248	3.05	2.3946212	20
251	3.0714286	2.0555473	14
254	5	0	1
300	7.5555556	.75119547	90
303	5.8444444	2.0274028	90
306	5.5979381	2.4051152	97
309	5.3896104	2.5810842	77
312	5.4819277	2.3235877	83
315	5.4615385	2.4689525	91
318	4.9433962	2.3730465	53
321	5.3	2.719919	50
324	5.3018868	2.6427325	53
327	5.2	2.3386722	50
330	4.90625	2.6683253	32
333	4.9714286	2.8541581	35
336	4.8148148	2.61706	27
339	4.9677419	2.7262168	31
342	5.1666667	1.9174125	18

345	5.3333333	2.348436	12
348	6.5	1.6984156	14
351	4.4285714	3.1547394	7
Total	3.9447039	2.4622298	4069

Analysis of Variance					
Source	SS	df	MS	F	Prob > F
Between groups	6566.92692	54	121.609758	26.98	0.0000
Within groups	18095.6314	4014	4.50812941		
Total	24662.5584	4068	6.0625758		

Bartlett's test for equal variances: chi2(53) = 487.0457 Prob>chi2 = 0.000

note: Bartlett's test performed on cells with positive variance:
1 single-observation cells not used

. * pause

.

```
log: P:\NIDDK\ICDB\ICDB_CD\SAS derived_data\longitudianl_add.txt
log type: text
opened on: 18 Nov 2005, 14:30:25
```

.

. generate time_integer = int(timeseen)

. tab time_integer

time_integer	r	Freq.	Percent	Cum.
-2		1	0.01	0.01
-1		16	0.15	0.16
0		1,546	14.51	14.67
1		658	6.17	20.84
2		536	5.03	25.87
3		602	5.65	31.52
4		332	3.12	34.64
5		314	2.95	37.58
6		434	4.07	41.66
7		270	2.53	44.19
8		268	2.52	46.71
9		386	3.62	50.33
10		228	2.14	52.47
11		327	3.07	55.54
12		341	3.20	58.74
13		216	2.03	60.76
14		263	2.47	63.23
15		260	2.44	65.67
16		148	1.39	67.06
17		202	1.90	68.96
18		272	2.55	71.51
19		123	1.15	72.66
20		188	1.76	74.43
21		224	2.10	76.53
22		126	1.18	77.71
23		186	1.75	79.46
24		241	2.26	81.72
25		120	1.13	82.85
26		139	1.30	84.15
27		185	1.74	85.89
28		76	0.71	86.60
29		113	1.06	87.66

30	153	1.44	89.10
31	68	0.64	89.73
32	117	1.10	90.83
33	118	1.11	91.94
34	76	0.71	92.65
35	119	1.12	93.77
36	128	1.20	94.97
37	57	0.53	95.50
38	89	0.84	96.34
39	70	0.66	97.00
40	28	0.26	97.26
41	56	0.53	97.79
42	42	0.39	98.18
43	20	0.19	98.37
44	26	0.24	98.61
45	13	0.12	98.73
46	18	0.17	98.90
47	60	0.56	99.47
48	40	0.38	99.84
49	7	0.07	99.91
50	8	0.08	99.98
52	2	0.02	100.00
<hr/>			
Total	10,656	100.00	

```
. label define status 1"active" 2"lost to followup" 3"withdrawn"
. label values fup_stat status
. tab fup_stat if timeseen==0.00
```

follow-up status	Freq.	Percent	Cum.
active	405	63.58	63.58
lost to followup	109	17.11	80.69
withdrawn	123	19.31	100.00
Total	637	100.00	

```
. * pause
. *tab max_fup fup_stat if timeseen==0.00, missing
. *tab max_fup fup_stat
. tab subj fup_stat if subj <= 110100
```

subj	follow-up status			Total
	active	lost to f	withdrawn	
110027	0	27	0	27
110029	0	32	0	32
110039	0	27	0	27
110040	25	0	0	25
110045	0	28	0	28
110049	28	0	0	28
110051	0	20	0	20
110052	0	27	0	27
110053	23	0	0	23
110055	0	21	0	21
110057	26	0	0	26
110058	0	0	24	24
110059	0	22	0	22
110060	0	9	0	9
110062	25	0	0	25
110065	0	6	0	6
110066	0	0	12	12

110067	0	15	0	15
110068	0	6	0	6
110069	0	8	0	8
110070	0	19	0	19
110074	0	0	5	5
110075	0	0	17	17
110076	0	0	6	6
110077	0	21	0	21
110078	26	0	0	26
110080	0	25	0	25
110081	14	0	0	14
110082	27	0	0	27
110083	0	0	5	5
110084	0	0	6	6
110085	0	0	2	2
110086	24	0	0	24
110087	21	0	0	21
110088	0	0	5	5
110091	19	0	0	19
110092	0	18	0	18
110093	0	11	0	11
110094	17	0	0	17
110095	16	0	0	16
110096	0	7	0	7
110097	0	0	15	15
110099	0	0	12	12
110100	18	0	0	18
<hr/>				
Total	309	349	109	767

```

. keep if fup_stat ==1
(2475 observations deleted)

. * pause

. generate time3 = .
(8181 missing values generated)

. label var time3 "Integer Months: 0-2, 3-5, 6-8 ... "

. replace time3 = . if time_integer< 0
(0 real changes made)

. replace time3 = 0 if time_integer >= 0 & time_integer< 3
(1796 real changes made)

. replace time3 = 3 if time_integer >= 3 & time_integer< 6
(868 real changes made)

. replace time3 = 6 if time_integer >= 6 & time_integer< 9
(723 real changes made)

. replace time3 = 9 if time_integer>= 9 & time_integer< 12
(720 real changes made)

. replace time3 = 12 if time_integer>= 12 & time_integer< 15
(665 real changes made)

. replace time3 = 15 if time_integer>= 15 & time_integer< 18
(481 real changes made)

. replace time3 = 18 if time_integer>= 18 & time_integer< 21
(469 real changes made)

```

```

. replace time3 = 21 if time_integer>= 21 & time_integer< 24
(453 real changes made)

. replace time3 = 24 if time_integer>= 24 & time_integer< 27
(446 real changes made)

.

. replace time3 = 27 if time_integer>= 27 & time_integer< 30
(325 real changes made)

. replace time3 = 30 if time_integer>= 30 & time_integer< 33
(295 real changes made)

. replace time3 = 33 if time_integer>= 33 & time_integer< 36
(285 real changes made)

. replace time3 = 36 if time_integer>= 36 & time_integer< 39
(264 real changes made)

.

. replace time3 = 39 if time_integer>= 39 & time_integer< 42
(145 real changes made)

. replace time3 = 42 if time_integer>= 42 & time_integer< 45
(84 real changes made)

. replace time3 = 45 if time_integer>= 45 & time_integer< 48
(91 real changes made)

. replace time3 = 48 if time_integer>= 48 & time_integer< 51
(55 real changes made)

.

. replace time3 = 51 if time_integer>= 51 & time_integer< 54
(2 real changes made)

. replace time3 = 54 if time_integer>= 54 & time_integer< 57
(0 real changes made)

. replace time3 = 57 if time_integer>= 57 & time_integer< 60
(0 real changes made)

.

. tabulate time3 time_integer

```

Integer Months: 0-2, 3-5, 6-8 ...	time_integer							Total
	0	1	2	3	4	5	6	
0	990	446	360	0	0	0	0	1,796
3	0	0	0	424	221	223	0	868
6	0	0	0	0	0	0	338	723
9	0	0	0	0	0	0	0	720
12	0	0	0	0	0	0	0	665
15	0	0	0	0	0	0	0	481
18	0	0	0	0	0	0	0	469
21	0	0	0	0	0	0	0	453
24	0	0	0	0	0	0	0	446
27	0	0	0	0	0	0	0	325
30	0	0	0	0	0	0	0	295
33	0	0	0	0	0	0	0	285
36	0	0	0	0	0	0	0	264
39	0	0	0	0	0	0	0	145
42	0	0	0	0	0	0	0	84
45	0	0	0	0	0	0	0	91
48	0	0	0	0	0	0	0	55
51	0	0	0	0	0	0	0	2
Total	990	446	360	424	221	223	338	8,167

Integer |

Months: 0-2, 3-5, 6-8 ...	7	8	9	time_integer	10	11	12	13	Total
0	0	0	0	0	0	0	0	0	1,796
3	0	0	0	0	0	0	0	0	868
6	185	200	0	0	0	0	0	0	723
9	0	0	290	162	268	0	0	0	720
12	0	0	0	0	0	287	166	665	
15	0	0	0	0	0	0	0	0	481
18	0	0	0	0	0	0	0	0	469
21	0	0	0	0	0	0	0	0	453
24	0	0	0	0	0	0	0	0	446
27	0	0	0	0	0	0	0	0	325
30	0	0	0	0	0	0	0	0	295
33	0	0	0	0	0	0	0	0	285
36	0	0	0	0	0	0	0	0	264
39	0	0	0	0	0	0	0	0	145
42	0	0	0	0	0	0	0	0	84
45	0	0	0	0	0	0	0	0	91
48	0	0	0	0	0	0	0	0	55
51	0	0	0	0	0	0	0	0	2
Total	185	200	290	162	268	287	166		8,167

Integer Months: 0-2, 3-5, 6-8 ...	14	15	16	time_integer	17	18	19	20	Total
0	0	0	0	0	0	0	0	0	1,796
3	0	0	0	0	0	0	0	0	868
6	0	0	0	0	0	0	0	0	723
9	0	0	0	0	0	0	0	0	720
12	212	0	0	0	0	0	0	0	665
15	0	214	105	162	0	0	0	0	481
18	0	0	0	0	230	94	145	0	469
21	0	0	0	0	0	0	0	0	453
24	0	0	0	0	0	0	0	0	446
27	0	0	0	0	0	0	0	0	325
30	0	0	0	0	0	0	0	0	295
33	0	0	0	0	0	0	0	0	285
36	0	0	0	0	0	0	0	0	264
39	0	0	0	0	0	0	0	0	145
42	0	0	0	0	0	0	0	0	84
45	0	0	0	0	0	0	0	0	91
48	0	0	0	0	0	0	0	0	55
51	0	0	0	0	0	0	0	0	2
Total	212	214	105	162	230	94	145		8,167

Integer Months: 0-2, 3-5, 6-8 ...	21	22	23	time_integer	24	25	26	27	Total
0	0	0	0	0	0	0	0	0	1,796
3	0	0	0	0	0	0	0	0	868
6	0	0	0	0	0	0	0	0	723
9	0	0	0	0	0	0	0	0	720
12	0	0	0	0	0	0	0	0	665
15	0	0	0	0	0	0	0	0	481
18	0	0	0	0	0	0	0	0	469
21	189	103	161	0	0	0	0	0	453
24	0	0	0	220	105	121	0	0	446
27	0	0	0	0	0	0	0	154	325
30	0	0	0	0	0	0	0	0	295
33	0	0	0	0	0	0	0	0	285
36	0	0	0	0	0	0	0	0	264
39	0	0	0	0	0	0	0	0	145
42	0	0	0	0	0	0	0	0	84
45	0	0	0	0	0	0	0	0	91
48	0	0	0	0	0	0	0	0	55
51	0	0	0	0	0	0	0	0	2
Total	189	103	161	220	105	121	154		8,167

Integer Months: 0-2, 3-5,	time_integer

6-8 ...	28	29	30	31	32	33	34	Total
0	0	0	0	0	0	0	0	1,796
3	0	0	0	0	0	0	0	868
6	0	0	0	0	0	0	0	723
9	0	0	0	0	0	0	0	720
12	0	0	0	0	0	0	0	665
15	0	0	0	0	0	0	0	481
18	0	0	0	0	0	0	0	469
21	0	0	0	0	0	0	0	453
24	0	0	0	0	0	0	0	446
27	68	103	0	0	0	0	0	325
30	0	0	131	55	109	0	0	295
33	0	0	0	0	0	102	69	285
36	0	0	0	0	0	0	0	264
39	0	0	0	0	0	0	0	145
42	0	0	0	0	0	0	0	84
45	0	0	0	0	0	0	0	91
48	0	0	0	0	0	0	0	55
51	0	0	0	0	0	0	0	2
Total	68	103	131	55	109	102	69	8,167

Integer Months: 0-2, 3-5, 6-8 ...	35	36	37	time_integer	38	39	40	41	Total
0	0	0	0	0	0	0	0	0	1,796
3	0	0	0	0	0	0	0	0	868
6	0	0	0	0	0	0	0	0	723
9	0	0	0	0	0	0	0	0	720
12	0	0	0	0	0	0	0	0	665
15	0	0	0	0	0	0	0	0	481
18	0	0	0	0	0	0	0	0	469
21	0	0	0	0	0	0	0	0	453
24	0	0	0	0	0	0	0	0	446
27	0	0	0	0	0	0	0	0	325
30	0	0	0	0	0	0	0	0	295
33	114	0	0	0	0	0	0	0	285
36	0	124	55	85	0	0	0	0	264
39	0	0	0	0	66	26	53	0	145
42	0	0	0	0	0	0	0	0	84
45	0	0	0	0	0	0	0	0	91
48	0	0	0	0	0	0	0	0	55
51	0	0	0	0	0	0	0	0	2
Total	114	124	55	85	66	26	53	0	8,167

Integer Months: 0-2, 3-5, 6-8 ...	42	43	44	time_integer	45	46	47	48	Total
0	0	0	0	0	0	0	0	0	1,796
3	0	0	0	0	0	0	0	0	868
6	0	0	0	0	0	0	0	0	723
9	0	0	0	0	0	0	0	0	720
12	0	0	0	0	0	0	0	0	665
15	0	0	0	0	0	0	0	0	481
18	0	0	0	0	0	0	0	0	469
21	0	0	0	0	0	0	0	0	453
24	0	0	0	0	0	0	0	0	446
27	0	0	0	0	0	0	0	0	325
30	0	0	0	0	0	0	0	0	295
33	0	0	0	0	0	0	0	0	285
36	0	0	0	0	0	0	0	0	264
39	0	0	0	0	0	0	0	0	145
42	40	18	26	0	0	0	0	0	84
45	0	0	0	13	18	60	0	0	91
48	0	0	0	0	0	0	40	0	55
51	0	0	0	0	0	0	0	0	2
Total	40	18	26	13	18	60	40	0	8,167

Integer Months: 0-2, 3-5, 6-8 ...	49	50	52	Total

0	0	0	0	1,796
3	0	0	0	868
6	0	0	0	723
9	0	0	0	720
12	0	0	0	665
15	0	0	0	481
18	0	0	0	469
21	0	0	0	453
24	0	0	0	446
27	0	0	0	325
30	0	0	0	295
33	0	0	0	285
36	0	0	0	264
39	0	0	0	145
42	0	0	0	84
45	0	0	0	91
48	7	8	0	55
51	0	0	2	2
Total	7	8	2	8,167

. tab purg1c3b

baseline				
pain score		Freq.	Percent	Cum.
--	3 levels			
1		2,259	27.61	27.61
2		4,093	50.03	77.64
3		1,829	22.36	100.00
Total		8,181	100.00	

. generate Paintime3 = (100*purg1c3b) + time3
(14 missing values generated)

. label var Paintime3 "Integer Months: 0-2, 3-5, 6-8 ... "

. tab Paintime3 time3, missing

Integer Months: 0-2, 3-5, 6-8 ...	Integer Months: 0-2, 3-5, 6-8 ...						Total
	0	3	6	9	12	15	
100	471	0	0	0	0	0	471
103	0	232	0	0	0	0	232
106	0	0	190	0	0	0	190
109	0	0	0	199	0	0	199
112	0	0	0	0	170	0	170
115	0	0	0	0	0	136	136
118	0	0	0	0	0	0	143
121	0	0	0	0	0	0	131
124	0	0	0	0	0	0	128
127	0	0	0	0	0	0	97
130	0	0	0	0	0	0	83
133	0	0	0	0	0	0	89
136	0	0	0	0	0	0	79
139	0	0	0	0	0	0	44
142	0	0	0	0	0	0	24
145	0	0	0	0	0	0	24
148	0	0	0	0	0	0	16
200	916	0	0	0	0	0	916
203	0	442	0	0	0	0	442
206	0	0	372	0	0	0	372
209	0	0	0	358	0	0	358
212	0	0	0	0	328	0	328
215	0	0	0	0	0	240	240
218	0	0	0	0	0	0	230
221	0	0	0	0	0	0	216
224	0	0	0	0	0	0	223
227	0	0	0	0	0	0	168
230	0	0	0	0	0	0	146
233	0	0	0	0	0	0	143
236	0	0	0	0	0	0	127
239	0	0	0	0	0	0	69
242	0	0	0	0	0	0	39

245	0	0	0	0	0	0	0	0	38
248	0	0	0	0	0	0	0	0	27
251	0	0	0	0	0	0	0	0	2
300	409	0	0	0	0	0	0	0	409
303	0	194	0	0	0	0	0	0	194
306	0	0	161	0	0	0	0	0	161
309	0	0	0	163	0	0	0	0	163
312	0	0	0	0	167	0	0	0	167
315	0	0	0	0	0	105	0	0	105
318	0	0	0	0	0	0	96	0	96
321	0	0	0	0	0	0	0	0	106
324	0	0	0	0	0	0	0	0	95
327	0	0	0	0	0	0	0	0	60
330	0	0	0	0	0	0	0	0	66
333	0	0	0	0	0	0	0	0	53
336	0	0	0	0	0	0	0	0	58
339	0	0	0	0	0	0	0	0	32
342	0	0	0	0	0	0	0	0	21
345	0	0	0	0	0	0	0	0	29
348	0	0	0	0	0	0	0	0	12
.	0	0	0	0	0	0	0	0	14
Total	1,796	868	723	720	665	481	469	8,181	

Integer Months: 0-2, 3-5, 6-8 ...	Integer Months: 0-2, 3-5, 6-8 ...							Total
	21	24	27	30	33	36	39	
100	0	0	0	0	0	0	0	471
103	0	0	0	0	0	0	0	232
106	0	0	0	0	0	0	0	190
109	0	0	0	0	0	0	0	199
112	0	0	0	0	0	0	0	170
115	0	0	0	0	0	0	0	136
118	0	0	0	0	0	0	0	143
121	131	0	0	0	0	0	0	131
124	0	128	0	0	0	0	0	128
127	0	0	97	0	0	0	0	97
130	0	0	0	83	0	0	0	83
133	0	0	0	0	89	0	0	89
136	0	0	0	0	0	79	0	79
139	0	0	0	0	0	0	44	44
142	0	0	0	0	0	0	0	24
145	0	0	0	0	0	0	0	24
148	0	0	0	0	0	0	0	16
200	0	0	0	0	0	0	0	916
203	0	0	0	0	0	0	0	442
206	0	0	0	0	0	0	0	372
209	0	0	0	0	0	0	0	358
212	0	0	0	0	0	0	0	328
215	0	0	0	0	0	0	0	240
218	0	0	0	0	0	0	0	230
221	216	0	0	0	0	0	0	216
224	0	223	0	0	0	0	0	223
227	0	0	168	0	0	0	0	168
230	0	0	0	146	0	0	0	146
233	0	0	0	0	143	0	0	143
236	0	0	0	0	0	127	0	127
239	0	0	0	0	0	0	69	69
242	0	0	0	0	0	0	0	39
245	0	0	0	0	0	0	0	38
248	0	0	0	0	0	0	0	27
251	0	0	0	0	0	0	0	2
300	0	0	0	0	0	0	0	409
303	0	0	0	0	0	0	0	194
306	0	0	0	0	0	0	0	161
309	0	0	0	0	0	0	0	163
312	0	0	0	0	0	0	0	167
315	0	0	0	0	0	0	0	105
318	0	0	0	0	0	0	0	96
321	106	0	0	0	0	0	0	106
324	0	95	0	0	0	0	0	95
327	0	0	60	0	0	0	0	60
330	0	0	0	66	0	0	0	66
333	0	0	0	0	53	0	0	53
336	0	0	0	0	0	58	0	58
339	0	0	0	0	0	0	32	32
342	0	0	0	0	0	0	0	21
345	0	0	0	0	0	0	0	29
348	0	0	0	0	0	0	0	12
.	0	0	0	0	0	0	0	14

Total	453	446	325	295	285	264	145	8,181
Integer Months:								
0-2, 3-5, 6-8 ...	42	45	48	51	.		Total	
100	0	0	0	0	0	471		
103	0	0	0	0	0	232		
106	0	0	0	0	0	190		
109	0	0	0	0	0	199		
112	0	0	0	0	0	170		
115	0	0	0	0	0	136		
118	0	0	0	0	0	143		
121	0	0	0	0	0	131		
124	0	0	0	0	0	128		
127	0	0	0	0	0	97		
130	0	0	0	0	0	83		
133	0	0	0	0	0	89		
136	0	0	0	0	0	79		
139	0	0	0	0	0	44		
142	24	0	0	0	0	24		
145	0	24	0	0	0	24		
148	0	0	16	0	0	16		
200	0	0	0	0	0	916		
203	0	0	0	0	0	442		
206	0	0	0	0	0	372		
209	0	0	0	0	0	358		
212	0	0	0	0	0	328		
215	0	0	0	0	0	240		
218	0	0	0	0	0	230		
221	0	0	0	0	0	216		
224	0	0	0	0	0	223		
227	0	0	0	0	0	168		
230	0	0	0	0	0	146		
233	0	0	0	0	0	143		
236	0	0	0	0	0	127		
239	0	0	0	0	0	69		
242	39	0	0	0	0	39		
245	0	38	0	0	0	38		
248	0	0	27	0	0	27		
251	0	0	0	2	0	2		
300	0	0	0	0	0	409		
303	0	0	0	0	0	194		
306	0	0	0	0	0	161		
309	0	0	0	0	0	163		
312	0	0	0	0	0	167		
315	0	0	0	0	0	105		
318	0	0	0	0	0	96		
321	0	0	0	0	0	106		
324	0	0	0	0	0	95		
327	0	0	0	0	0	60		
330	0	0	0	0	0	66		
333	0	0	0	0	0	53		
336	0	0	0	0	0	58		
339	0	0	0	0	0	32		
342	21	0	0	0	0	21		
345	0	29	0	0	0	29		
348	0	0	12	0	0	12		
.	0	0	0	0	14	14		
Total	84	91	55	2	14		8,181	

. tab Paintime3 purglc3b, missing

Integer Months:		baseline pain score -- 3 levels			Total
0-2, 3-5, 6-8 ...	1	2	3	.	
100	471	0	0		471
103	232	0	0		232
106	190	0	0		190
109	199	0	0		199
112	170	0	0		170
115	136	0	0		136

118	143	0	0	143
121	131	0	0	131
124	128	0	0	128
127	97	0	0	97
130	83	0	0	83
133	89	0	0	89
136	79	0	0	79
139	44	0	0	44
142	24	0	0	24
145	24	0	0	24
148	16	0	0	16
200	0	916	0	916
203	0	442	0	442
206	0	372	0	372
209	0	358	0	358
212	0	328	0	328
215	0	240	0	240
218	0	230	0	230
221	0	216	0	216
224	0	223	0	223
227	0	168	0	168
230	0	146	0	146
233	0	143	0	143
236	0	127	0	127
239	0	69	0	69
242	0	39	0	39
245	0	38	0	38
248	0	27	0	27
251	0	2	0	2
300	0	0	409	409
303	0	0	194	194
306	0	0	161	161
309	0	0	163	163
312	0	0	167	167
315	0	0	105	105
318	0	0	96	96
321	0	0	106	106
324	0	0	95	95
327	0	0	60	60
330	0	0	66	66
333	0	0	53	53
336	0	0	58	58
339	0	0	32	32
342	0	0	21	21
345	0	0	29	29
348	0	0	12	12
.	3	9	2	14
Total	2,259	4,093	1,829	8,181

```
. sort Paintime3

. *by Paintime3: summarize purg_1
. oneway purg_1 Paintime3, tabulate
```

Integer Months: 0-2, 3-5, 6-8 ...	Summary of pain score over last 4 weeks		
	Mean	Std. Dev.	Freq.
100	2.2608696	1.8616115	207
103	2.3813559	1.9738439	118
106	2.592233	2.1757888	103
109	2.3434343	2.0660601	99
112	2.5581395	2.2886145	86
115	2.5135135	2.2098363	74

118	2.4647887	2.2604107	71
121	2.5	2.0778499	64
124	2.40625	2.2090632	64
127	1.9	1.7172593	50
130	1.6585366	1.6372195	41
133	1.8837209	1.8924575	43
136	2.7142857	2.5015675	42
139	1.2857143	1.4880476	21
142	2.5	1.9903614	14
145	2.1666667	2.7906771	12
148	2.1111111	2.1473498	9
200	4.9240196	1.5506554	408
203	4.3333333	2.1609356	225
206	3.7883598	2.0776603	189
209	3.973262	2.2056456	187
212	4.2742857	1.9635095	175
215	3.9596774	2.2100995	124
218	3.8559322	2.3288434	118
221	3.7522936	2.1651959	109
224	3.973913	2.3300511	115
227	3.7125	2.1060116	80
230	3.7228916	2.2213666	83
233	3.4029851	2.3998718	67
236	3.3768116	2.2102798	69
239	3.1714286	2.0791078	35
242	3.4090909	2.0391196	22
245	3.05	2.3946212	20
248	3.0714286	2.0555473	14
251	5	0	1
300	6.7	1.7493814	180
303	5.5979381	2.4051152	97
306	5.3896104	2.5810842	77
309	5.4819277	2.3235877	83
312	5.4615385	2.4689525	91
315	4.9433962	2.3730465	53
318	5.3	2.719919	50
321	5.3018868	2.6427325	53
324	5.2	2.3386722	50
327	4.90625	2.6683253	32
330	4.9714286	2.8541581	35
333	4.8148148	2.61706	27
336	4.9677419	2.7262168	31
339	5.1666667	1.9174125	18
342	5.3333333	2.348436	12
345	6.5	1.6984156	14
348	4.4285714	3.1547394	7
<hr/>			
Total	3.9447039	2.4622298	4069

Source	Analysis of Variance				
	SS	df	MS	F	Prob > F
Between groups	6331.41376	51	124.145368	27.20	0.0000
Within groups	18331.1446	4017	4.56339174		
Total	24662.5584	4068	6.0625758		

Bartlett's test for equal variances: chi2(50) = 168.4627 Prob>chi2 = 0.000

note: Bartlett's test performed on cells with positive variance:
1 single-observation cells not used

.
. end of do-file

. log close

log: P:\NIDDK\ICDB\ICDB_CD\SAS derived_data\longitudianl_add.txt
log type: text
closed on: 18 Nov 2005, 14:30:55

ATTACHMENT 4

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

Propert KJ, Schaeffer AJ, Brensinger CM, Kusek JW, Nyberg LM, Landis JR and the ICDB Study Group. A prospective study of interstitial cystitis: results of longitudinal followup of the interstitial cystitis data base cohort. **J of Urology**. 2000 May;163(5):1434-9.

ATTACHMENT 5

Longitudinal Analysis of 1-Month Pain Symptoms using Methods 2 and 3 to Calculate Time

FIGURE 3: ICDB Archive Data, Method 2

Monthly Pain for 3 Baseline Pain Groupings

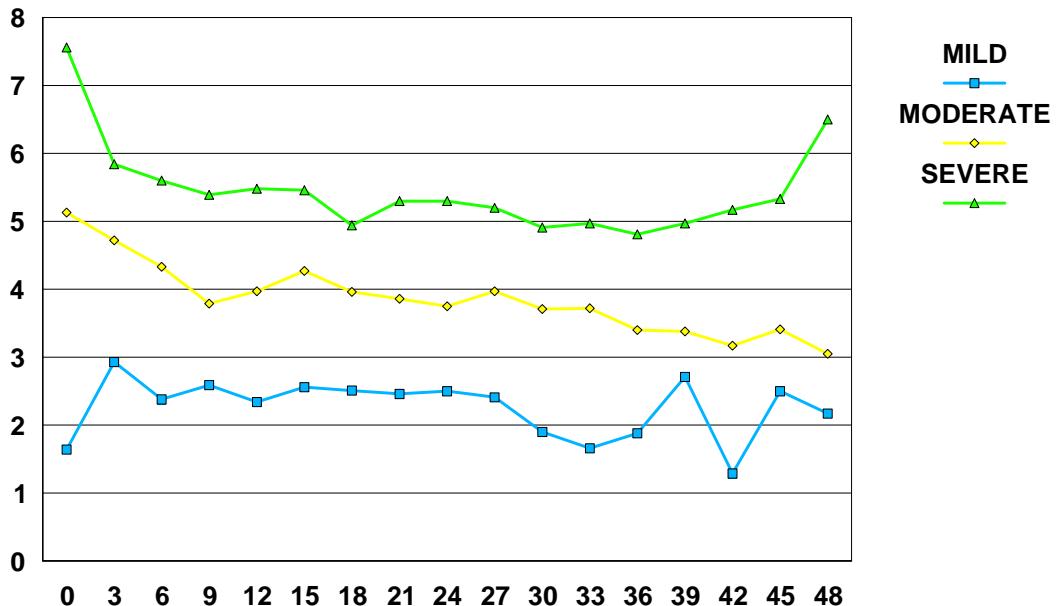


FIGURE 4: ICDB Archive Data, Method 3

Monthly Pain for 3 Baseline Pain Groupings

