

Dataset Integrity Check for the Multidisciplinary Approach to the Study of Chronic Pelvis Pain (MAPP) Baseline Data Files

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Contents

1 Standard Disclaimer	2
2 Study Background	2
3 Archived Datasets	2
4 Statistical Methods	3
5 Results	3
6 Conclusions	3
7 References	3
Table A: Variables used to replicate Table 1: Baseline Demographics and Symptom Duration of MAPP Participants with Chronic Pelvic Pain by Non-urological Associated Syndrome (NUAS) Criteria	4
Table B: Comparison of values computed in integrity check to reference article Table 1 values	4
Table C: Variables used to replicate Table 2: Baseline Medical History and Non-urological Associated Syndrome (NUAS) in MAPP Participants with Urological Chronic Pelvic Pain by NUAS Criteria	7
Table D: Comparison of values computed in integrity check to reference article Table 2 values	7
Table E: Variables used to replicate Table 3: Mean (SD) of Urological Symptoms of MAPP Participants with Urological Chronic Pelvic Pain by Non-urological Associated Syndrome Criteria	8
Table F: Comparison of values computed in integrity check to reference article Table 3 values	9
Table G: Variables used to replicate Table 4: Psychological Symptoms of MAPP Participants with Urological Chronic Pelvic Pain by Non-urological Associated Syndrome Criteria	11
Table H: Comparison of values computed in integrity check to reference article Table 4 values	12
Appendix A: SAS Code	14

1 Standard Disclaimer

The intent of this DSIC is to provide confidence that the data distributed by the NIDDK repository is a true copy of the study data. Our intent is not to assess the integrity of the statistical analyses reported by study investigators. As with all statistical analyses of complex datasets, complete replication of a set of statistical results should not be expected in secondary analysis. This occurs for a number of reasons including differences in the handling of missing data, restrictions on cases included in samples for a particular analysis, software coding used to define complex variables, etc. Experience suggests that most discrepancies can ordinarily be resolved by consultation with the study data coordinating center (DCC), however this process is labor-intensive for both DCC and Repository staff. It is thus not our policy to resolve every discrepancy that is observed in an integrity check. Specifically, we do not attempt to resolve minor or inconsequential discrepancies with published results or discrepancies that involve complex analyses, unless NIDDK Repository staff suspect that the observed discrepancy suggests that the dataset may have been corrupted in storage, transmission, or processing by repository staff. We do, however, document in footnotes to the integrity check those instances in which our secondary analyses produced results that were not fully consistent with those reported in the target publication.

2 Study Background

The Multidisciplinary Approach to the Study of Chronic Pelvic Pain (MAPP) Research Network was established to focus on a broader approach to the study of Interstitial Cystitis (IC)/Painful Bladder Syndrome (PBS) in men and women, and Chronic Prostatitis (CP)/Chronic Pelvic Pain Syndrome (CPPS) in men, than previously undertaken. Participants with some form or symptoms of IC or CP were asked to join the Trans-MAPP Epidemiology and Phenotyping (EP) Study. Participants with no Urologic Pelvic Pain Syndromes as well as participants with specific conditions (Fibromyalgia (FM), Irritable Bowel Syndrome (IBS), Chronic Fatigue Syndrome (CFS)) were recruited for the Trans-MAPP Control Study. These participants were a reference/control group for the Trans-MAPP Epidemiology & Phenotyping (EP) Study.

As with many chronic pain disorders, IC and CP are poorly understood, and treatment is often not helpful. The goal of this study was to better understand how pain is felt in people with IC or CP. The MAPP Study was an observational study that enrolled participants from 6 Discovery Sites and 3 Satellite Sites across the U.S. Questions were asked and information was gathered about the health and life of the participants for research purposes. No study treatment or interventions was given to participants in MAPP. The study aimed to improve the treatment of IC and CP.

3 Archived Datasets

All SAS data files, as provided by the Data Coordinating Center (DCC), are located in the MAPP data package. For this replication, variables were taken from the “mappniddkdata_bsl_21jan2016.sas7bdat” dataset.

4 Statistical Methods

Analyses were performed to duplicate results for the data published by Krieger et al. in The Journal of Urology in April 2015 [1].

To verify the integrity of the datasets, descriptive statistics were computed.

5 Results

For Table 1 in the publication [1], Baseline Demographics and Symptom Duration of MAPP Participants with Chronic Pelvic Pain by Non-urological Associated Syndrome (NUAS) Criteria, Table A lists the variables that were used in the replication and Table B compares the results calculated from the archived data file to the results published in Table 1. The results of the replication are almost an exact match.

For Table 2 in the publication [1], Baseline Medical History and Non-urological Associated Syndrome (NUAS) in MAPP Participants with Urological Chronic Pelvic Pain by NUAS Criteria, Table C lists the variables that were used in the replication and Table D compares the results calculated from the archived data file to the results published in Table 2. The results of the replication are an exact match.

For Table 3 in the publication [1], Mean (SD) of Urological Symptoms of MAPP Participants with Urological Chronic Pelvic Pain by Non-urological Associated Syndrome Criteria, Table E lists the variables that were used in the replication and Table F compares the results calculated from the archived data file to the results published in Table 3. The results of the replication are an exact match.

For Table 4 in the publication [1], Psychological Symptoms of MAPP Participants with Urological Chronic Pelvic Pain by Non-urological Associated Syndrome Criteria, Table G lists the variables that were used in the replication and Table H compares the results calculated from the archived data file to the results published in Table 4. The results of the replication are an exact match.

6 Conclusions

The NIDDK repository is confident that the MAPP data files to be distributed are a true copy to the manuscript data.

7 References

[1] Krieger, J.N., Stephens, A.J., Landis, J. R., Clemens, J. Q., Kreder, K., Lai, H.H., Afari, N., Rodrigues, L., Schaeffer, A., Mackey, S., Andriole, G.L., and Williams, D.A. for the MAPP Research Network. Relationship between Chronic Non-Urological Associated Somatic Syndromes (NUAS) and Symptom Severity in Urological Chronic Pelvic Pain Syndromes: Baseline Evaluation of the Multidisciplinary Approach to the Study of Chronic Pelvic Pain (MAPP) Study. J Urol. 2015 April; 193 (4): 1254-1262.

Table A: Variables used to replicate Table 1: Baseline Demographics and Symptom Duration of MAPP Participants with Chronic Pelvic Pain by Non-urological Associated Syndrome (NUAS) Criteria

Characteristic	Variable
Clinical Site	sitenum
Duration of Symptoms	dursym_yrs
Age	age
Age Group	agegrp
Race	racecat
Gender	sex
Ethnicity	ethnicat
Employment	job
Income	income
Number of Participants	cohorttype = 1
UCPPS Only vs. UCPPS with Syndromes	nuas

Table B: Comparison of values computed in integrity check to reference article Table 1 values

		All Manuscript	All DSIC	Diff.	UCPPS Only Manuscript	UCPPS Only DSIC	Diff.
Number of Participants		424	424	0	262	262	0
Clinical Site	Northwestern U	58 (13.7%)	58 (13.7%)	0 (0%)	35 (13.4%)	35 (13.4%)	0 (0%)
	UCLA	66 (15.6%)	66 (15.6%)	0 (0%)	43 (16.4%)	43 (16.4%)	0 (0%)
	U of Iowa	61 (14.4%)	61 (14.4%)	0 (0%)	34 (13.0%)	34 (13.0%)	0 (0%)
	U of Michigan	70 (16.5%)	70 (16.5%)	0 (0%)	45 (17.2%)	45 (17.2%)	0 (0%)
	U of Washington	71 (16.7%)	71 (16.8%)	0 (0.1%)	44 (16.8%)	44 (16.8%)	0 (0%)
	WashU St. Louis	75 (17.7%)	75 (17.7%)	0 (0%)	46 (17.6%)	46 (17.6%)	0 (0%)
	Stanford U	23 (5.4%)	23 (5.4%)	0 (0%)	15 (5.7%)	15 (5.7%)	0 (0%)
Duration of Symptoms		8.5 (10.6)	8.5 (10.6)	0 (0)	7.8 +/- 9.8	7.8 +/- 9.8	0 +/- 0
Age		43.4 (15.1)	43.4 (15.1)	0 (0)	44.4 +/- 15.2	44.4 +/- 15.2	0 +/- 0
Age Group	<35 years	160 (37.7%)	160 (37.7%)	0 (0%)	89 (34.0%)	89 (34.0%)	0 (0%)
	35-50 Years	122 (28.8%)	122 (28.8%)	0 (0%)	80 (30.5%)	80 (30.5%)	0 (0%)
	50+ Years	142 (33.5%)	142 (33.5%)	0 (0%)	93 (35.5%)	93 (35.5%)	0 (0%)
Race	White	374 (88.2%)	374 (88.2%)	0 (0%)	234 (89.3%)	234 (89.3%)	0 (0%)
	Black	16 (3.8%)	16 (3.8%)	0 (0%)	9 (3.4%)	9 (3.4%)	0 (0%)
	Other	34 (8.0%)	34 (8.0%)	0 (0%)	19 (17.3%)	19 (17.3%)	0 (0%)

		All Manuscript	All DSIC	Diff.	UCPPS Only Manuscript	UCPPS Only DSIC	Diff.
Gender	Male	191 (45.0%)	191 (45.0%)	0 (0%)	132 (50.4%)	132 (50.4%)	0 (0%)
	Female	233 (55.0%)	233 (55.0%)	0 (0%)	130 (49.6%)	130 (49.6%)	0 (0%)
Ethnicity	Hispanic	28 (6.6%)	28 (6.6%)	0 (0%)	15 (5.7%)	15 (5.7%)	0 (0%)
	Non-Hispanic	395 (93.2%)	395 (93.2%)	0 (0%)	247 (94.3%)	247 (94.3%)	0 (0%)
	Unknown	1 (0.2%)	1 (0.2%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Employment	Employed	278 (65.6%)	278 (65.6%)	0 (0%)	182 (69.5%)	182 (69.5%)	0 (0%)
	Unemployed	58 (13.7%)	58 (13.7%)	0 (0%)	37 (14.1%)	37 (14.1%)	0 (0%)
	Retired	43 (10.1%)	43 (10.1%)	0 (0%)	28 (10.7%)	28 (10.7%)	0 (0%)
	Full-time homemaker	12 (2.8%)	12 (2.8%)	0 (0%)	6 (2.3%)	6 (2.3%)	0 (0%)
	Disabled	32 (7.5%)	32 (7.5%)	0 (0%)	8 (3.1%)	8 (3.1%)	0 (0%)
	Missing	1 (0.2%)	1 (0.2%)	0 (0%)	1 (0.4%)	1 (0.4%)	0 (0%)
	Income	\$10,000 or less	40 (9.4%)	40 (9.4%)	0 (0%)	17 (6.5%)	17 (6.5%)
	\$10,001 to \$25,001	34 (8.0%)	34 (8.0%)	0 (0%)	22 (8.4%)	22 (8.4%)	0 (0%)
	\$25,001 to \$50,000	69 (16.3%)	69 (16.3%)	0 (0%)	43 (16.4%)	43 (16.4%)	0 (0%)
	\$50,001 to \$100,000	122 (28.8%)	122 (28.8%)	0 (0%)	72 (27.5%)	72 (27.5%)	0 (0%)
	More than \$100,000	120 (28.3%)	120 (28.3%)	0 (0%)	86 (32.8%)	86 (32.8%)	0 (0%)
	Prefer not to answer	37 (8.7%)	37 (8.7%)	0 (0%)	21 (8.0%)	21 (8.0%)	0 (0%)
	Missing	2 (0.5%)	2 (0.5%)	0 (0%)	1 (0.4%)	1 (0.4%)	0 (0%)

		UCPPS with Syndromes Manuscript	UCPPS with Syndromes DSIC	Diff.
Number of Participants		162	162	0
Clinical Site	Northwestern U	23 (14.2%)	23 (14.2%)	0 (0%)
	UCLA	23 (14.2%)	23 (14.2%)	0 (0%)
	U of Iowa	27 (16.7%)	27 (16.7%)	0 (0%)
	U of Michigan	25 (15.4%)	25 (15.4%)	0 (0%)
	U of Washington	27 (16.7%)	27 (16.7%)	0 (0%)
	WashU St.	29 (17.9%)	29 (17.9%)	0 (0%)

		UCPPS with Syndromes Manuscript	UCPPS with Syndromes DSIC	Diff.
	Louis			
	Stanford U	8 (4.9%)	8 (4.9%)	0 (0%)
Duration of Symptoms		9.7 +/- 11.8	9.7 +/- 11.8	0 +/- 0
Age		41.7 +/- 14.8	41.7 +/- 14.8	0 +/- 0
Age Group	<35 years	71 (43.8%)	71 (43.8%)	0 (0%)
	35-50 Years	42 (25.9%)	42 (25.9%)	0 (0%)
	50+ Years	49 (30.2%)	49 (30.3%)	0 (0.1%)
Race	White	140 (86.4%)	140 (86.4%)	0 (0%)
	Black	7 (4.3%)	7 (4.3%)	0 (0%)
	Other	15 (9.3%)	15 (9.3%)	0 (0%)
Gender	Male	59 (36.4%)	59 (36.4%)	0 (0%)
	Female	103 (63.6%)	103 (63.6%)	0 (0%)
Ethnicity	Hispanic	13 (8.0%)	13 (8.0%)	0 (0%)
	Non-Hispanic	148 (91.4%)	148 (91.4%)	0 (0%)
	Unknown	1 (0.6%)	1 (0.6%)	0 (0%)
Employment	Employed	96 (59.3%)	96 (59.3%)	0 (0%)
	Unemployed	21 (13.0%)	21 (13.0%)	0 (0%)
	Retired	15 (9.3%)	15 (9.3%)	0 (0%)
	Full-time homemaker	6 (3.7%)	6 (3.7%)	0 (0%)
	Disabled	24 (14.8%)	24 (14.8%)	0 (0%)
	Missing	0 (0%)	0 (0%)	0 (0%)
Income	\$10,000 or less	23 (14.2%)	23 (14.2%)	0 (0%)
	\$10,001 to \$25,001	12 (7.4%)	12 (7.4%)	0 (0%)
	\$25,001 to \$50,000	26 (16.0%)	26 (16.1%)	0 (0.1%)
	\$50,001 to \$100,000	50 (30.9%)	50 (30.9%)	0 (0%)
	More than \$100,000	34 (21.0%)	34 (21.0%)	0 (0%)
	Prefer not to answer	16 (9.9%)	16 (9.9%)	0 (0%)
	Missing	1 (0.6%)	1 (0.6%)	0 (0%)

Table C: Variables used to replicate Table 2: Baseline Medical History and Non-urological Associated Syndrome (NUAS) in MAPP Participants with Urological Chronic Pelvic Pain by NUAS Criteria

Characteristic	Variable
Presence of Types of NUAS	cmsigrp
IC/PBS Diagnosis from RICE	ricecase
Met MAPP IC/PBS Criteria	icpbs_elig
Taking Medication for Urologic or Pelvic Pain Symptoms	cmed4urop_bsl

Table D: Comparison of values computed in integrity check to reference article Table 2 values

		All N (%) Manuscript	All N (%) DSIC	Diff.	UCPPS Only N (%) Manuscript	UCPPS Only N (%) DSIC	Diff.
Number of Participants		424	424	0	262	262	0
Presence of Types of NUAS	None	262 (61.8%)	262 (61.8%)	0 (0%)	262 (100.0%)	262 (100.0%)	0 (0%)
	FM Only	15 (3.5%)	15 (3.5%)	0 (0%)	-	-	-
	IBS Only	93 (21.9%)	93 (21.9%)	0 (0%)	-	-	-
	CFS Only	13 (3.1%)	13 (3.1%)	0 (0%)	-	-	-
	>1 Dx	41 (9.7%)	41 (9.7%)	0 (0%)	-	-	-
IC/PBS Diagnosis from RICE	Yes	228 (53.8%)	228 (53.8%)	0 (0%)	120 (45.8%)	120 (45.8%)	0 (0%)
	No	196 (46.2%)	196 (46.2%)	0 (0%)	142 (54.2%)	142 (54.2%)	0 (0%)
Met MAPP IC/PBS Criteria	Yes	376 (88.7%)	376 (88.7%)	0 (0%)	224 (85.5%)	224 (85.5%)	0 (0%)
	No	48 (11.3%)	48 (11.3%)	0 (0%)	38 (14.5%)	38 (14.5%)	0 (0%)
Taking Medication for Urologic or Pelvic Pain Symptoms	Yes	307 (72.4%)	307 (72.4%)	0 (0%)	183 (69.8%)	183 (69.9%)	0 (0.1%)
	No	117 (27.6%)	117 (27.6%)	0 (0%)	79 (30.2%)	79 (30.2%)	0 (0%)

		UCPPS with Syndromes N (%) Manuscript	UCPPS with Syndromes N (%) DSIC	Diff.
Number of Participants		162	162	0
Presence of Types of NUAS	None	0 (0%)	0 (0%)	0 (0%)
	FM Only	15 (9.3%)	15 (9.3%)	0 (0%)
	IBS Only	93 (57.4%)	93 (57.4%)	0 (0%)
	CFS Only	13 (8.0%)	13 (8.0%)	0 (0%)
	>1 Dx	41 (25.3%)	41 (25.3%)	0 (0%)
IC/PBS Diagnosis from RICE	Yes	108 (66.7%)	108 (66.7%)	0 (0%)
	No	54 (33.3%)	54 (33.3%)	0 (0%)
Met MAPP IC/PBS Criteria	Yes	152 (93.8%)	152 (93.8%)	0 (0%)
	No	10 (6.2%)	10 (6.2%)	0 (0%)
Taking Medication for Urologic or Pelvic Pain Symptoms	Yes	124 (76.5%)	124 (76.5%)	0 (0%)
	No	38 (23.5%)	38 (23.5%)	0 (0%)

Table E: Variables used to replicate Table 3: Mean (SD) of Urological Symptoms of MAPP Participants with Urological Chronic Pelvic Pain by Non-urological Associated Syndrome Criteria

Characteristic	Variable
SYM-Q1: Baseline Pain (0-10)	symq1_bsl
SYM-Q2: Baseline Urgency (0-10)	symq2_bsl
SYM-Q3: Baseline Frequency (0-10)	symq3_bsl
SYM-Q4: Baseline Void (1-4)	symq4_bsl
SYM-Q5: Baseline Uro-Symptoms (0-10)	symq5_bsl
SYM-Q6: Baseline NonUro-Symptoms (0-10)	symq6_bsl
Baseline GUPI Pain Score (0-23)	gupiscorepain_bsl
Baseline GUPI Urinary Subscale (0-10)	gupiscoreurin_bsl
Baseline GUPI QOL Impact Subscore (0-12)	gupiscoreqol_bsl
Baseline GUPI Total Score (0-45)	gupiscoretotal_bsl
Baseline ICINDEX-Symptoms (0-20)	ICSItot_bsl
Baseline ICINDEX-Problem (0-16)	ICPItot_bsl

Characteristic	Variable
AUA Symptom Score Index over the Past Month (0-35)	AUASItot_bsl
BPI Pain Severity Score (0-10)	bpisevs_bsl
BPI Pain Interference Score (0-10)	bpiifs_bsl
BPI: Reported # of Sites Checked (0-45)	bpisiten_bsl
BPI: % of Sites Checked (out of 45)	bpisitepct_bsl
BPI: Reported # of Sites Checked, incl. Gender-Specific (0-49)	bpisiten2_bsl
BPI: % of Sites Checked (out of 49), incl. Gender-Specific	bpisitepct2_bsl
FSFI (Female) (0-36)	FSFI_total_bsl
IIEF-6 (Male) (0-30)	iieftot_bsl

Table F: Comparison of values computed in integrity check to reference article Table 3 values

	UCPPS Only (n=262) Manuscript		UCPPS Only (n=262) DSIC		Diff. (n=0)	
	N	Mean +/- s.d.	N	Mean +/- s.d.	N	Mean +/- s.d.
SYM-Q1: Baseline Pain (0-10)	262	4.7 +/- 2.1	262	4.7 +/- 2.1	0	0 +/- 0
SYM-Q2: Baseline Urgency (0-10)	262	4.8 +/- 2.5	262	4.8 +/- 2.5	0	0 +/- 0
SYM-Q3: Baseline Frequency (0-10)	262	4.6 +/- 2.6	262	4.6 +/- 2.6	0	0 +/- 0
SYM-Q4: Baseline Void (1-4)	260	2.4 +/- 0.9	260	2.4 +/- 0.9	0	0 +/- 0
SYM-Q5: Baseline Uro-Symptoms (0-10)	262	4.8 +/- 2.3	262	4.8 +/- 2.3	0	0 +/- 0
SYM-Q6: Baseline NonUro-Symptoms (0-10)	262	2.5 +/- 2.5	262	2.5 +/- 2.5	0	0 +/- 0
Baseline GUPI Pain Score (0-23)	261	11.7 +/- 4.1	261	11.7 +/- 4.1	0	0 +/- 0
Baseline GUPI Urinary Subscale (0-10)	262	4.9 +/- 2.8	262	4.9 +/- 2.8	0	0 +/- 0
Baseline GUPI QOL Impact Subscore (0-12)	262	7.4 +/- 2.9	262	7.4 +/- 2.9	0	0 +/- 0
Baseline GUPI Total Score (0-45)	261	24.0 +/- 8.1	261	24.0 +/- 8.1	0	0 +/- 0
Baseline ICINDEX-Symptoms (0-20)	261	9.0 +/- 4.6	261	9.0 +/- 4.6	0	0 +/- 0

	UCPPS Only (n=262) Manuscript		UCPPS Only (n=262) DSIC		Diff. (n=0)	
Baseline ICINDEX-Problem (0-16)	260	7.9 +/- 4.4	260	7.9 +/- 4.4	0	0 +/- 0
AUA Symptom Score Index over the Past Month (0-35)	262	14.0 +/- 7.8	262	14.0 +/- 7.8	0	0 +/- 0
BPI Pain Severity Score (0-10)	256	3.7 +/- 1.9	256	3.7 +/- 1.9	0	0 +/- 0
BPI Pain Interference Score (0-10)	260	3.2 +/- 2.5	160	3.2 +/- 2.5	0	0 +/- 0
BPI: Reported # of Sites Checked (0-45)	262	3.8 +/- 3.5	262	3.8 +/- 3.5	0	0 +/- 0
BPI: % of Sites Checked (out of 45)	262	8.5 +/- 7.8	262	8.5 +/- 7.8	0	0 +/- 0
BPI: Reported # of Sites Checked, incl. Gender-Specific (0-49)	262	5.4 +/- 3.8	262	5.4 +/- 3.8	0	0 +/- 0
BPI: % of Sites Checked (out of 49), incl. Gender-Specific	262	11.1 +/- 7.7	262	11.1 +/- 7.7	0	0 +/- 0
FSFI (Female) (0-36)	128	17.8 +/- 9.9	128	17.8 +/- 9.9	0	0 +/- 0
IIEF-6 (Male) (0-30)	132	21.4 +/- 9.2	132	21.4 +/- 9.2	0	0 +/- 0

	UCPPS with Syndromes (n=162) Manuscript		UCPPS with Syndromes (n=162) DSIC		Diff. (n=0)	
	N	Mean +/- s.d.	N	Mean +/- s.d.	N	Mean +/- s.d.
SYM-Q1: Baseline Pain (0-10)	162	5.6 +/- 2.2	162	5.6 +/- 2.2	0	0 +/- 0
SYM-Q2: Baseline Urgency (0-10)	162	5.4 +/- 2.6	162	5.4 +/- 2.6	0	0 +/- 0
SYM-Q3: Baseline Frequency (0-10)	162	5.5 +/- 2.6	162	5.5 +/- 2.6	0	0 +/- 0
SYM-Q4: Baseline Void (1-4)	161	2.6 +/- 1.0	161	2.6 +/- 1.0	0	0 +/- 0
SYM-Q5: Baseline Uro-Symptoms (0-10)	161	5.8 +/- 2.3	161	5.8 +/- 2.3	0	0 +/- 0
SYM-Q6: Baseline NonUro-Symptoms (0-10)	162	4.4 +/- 2.7	162	4.4 +/- 2.7	0	0 +/- 0

	UCPPS with Syndromes (n=162) Manuscript		UCPPS with Syndromes (n=162) DSIC		Diff. (n=0)	
Baseline GUPI Pain Score (0-23)	161	13.9 +/- 4.6	161	13.9 +/- 4.6	0	0 +/- 0
Baseline GUPI Urinary Subscale (0-10)	162	6.0 +/- 3.1	162	6.0 +/- 3.1	0	0 +/- 0
Baseline GUPI QOL Impact Subscore (0-12)	162	8.3 +/- 2.8	162	8.3 +/- 2.8	0	0 +/- 0
Baseline GUPI Total Score (0-45)	161	28.2 +/- 8.8	161	28.2 +/- 8.8	0	0 +/- 0
Baseline ICINDEX-Symptoms (0-20)	160	11.0 +/- 4.6	160	11.0 +/- 4.6	0	0 +/- 0
Baseline ICINDEX-Problem (0-16)	159	9.6 +/- 4.2	159	9.6 +/- 4.2	0	0 +/- 0
AUA Symptom Score Index over the Past Month (0-35)	162	17.8 +/- 9.1	162	17.8 +/- 9.1	0	0 +/- 0
BPI Pain Severity Score (0-10)	158	4.6 +/- 2.0	158	4.6 +/- 2.0	0	0 +/- 0
BPI Pain Interference Score (0-10)	160	4.7 +/- 2.9	160	4.7 +/- 2.9	0	0 +/- 0
BPI: Reported # of Sites Checked (0-45)	162	9.0 +/- 8.6	162	9.0 +/- 8.6	0	0 +/- 0
BPI: % of Sites Checked (out of 45)	162	20.1 +/- 19.1	162	20.1 +/- 19.1	0	0 +/- 0
BPI: Reported # of Sites Checked, incl. Gender-Specific (0-49)	162	10.7 +/- 9.0	162	10.7 +/- 9.0	0	0 +/- 0
BPI: % of Sites Checked (out of 49), incl. Gender-Specific	162	21.9 +/- 18.3	162	21.9 +/- 18.3	0	0 +/- 0
FSFI (Female) (0-36)	103	16.4 +/- 9.9	103	16.4 +/- 9.9	0	0 +/- 0
IIEF-6 (Male) (0-30)	59	20.5 +/- 9.9	59	20.5 +/- 9.9	0	0 +/- 0

Table G: Variables used to replicate Table 4: Psychological Symptoms of MAPP Participants with Urological Chronic Pelvic Pain by Non-urological Associated Syndrome Criteria

Characteristic	Variable
SYM-Q7: Baseline Mood (0-10)	symq7_bsl
HADS-Anxiety (0-21)	hadsanxtot_bsl
HADS-Depression (0-21)	hadsdeptot_bsl

Characteristic	Variable
PANAS Positive Affect (5-50)	panaspos_bsl
PANAS Negative Affect (5-50)	panasneg_bsl
Perceived Stress Scale (PSS) (0-40)	PSS_bsl
IPIP: Neuroticism (24-120)	IPIP_N
IPIP: Extraversion (24-120)	IPIP_E
IPIP: Openness (24-120)	IPIP_O
IPIP: Agreeableness (24-120)	IPIP_A
IPIP: Conscientiousness (24-120)	IPIP_C
CSQ: CAT (0-36)	csqsum1to6_bsl
CSQ: Baseline Average of Questions 1 to 6 (0-6)	csqavg1to6_bsl
CSQ: Ability to Control Pain with Coping (0-6)	CSQ_Q7
CSQ: Ability to Decrease Pain with Coping (0-6)	CSQ_Q8

Table H: Comparison of values computed in integrity check to reference article Table 4 values

	UCPPS Only (n=262) Manuscript		UCPPS Only (n=262) DSIC		Diff. (n=0)	
	N	Mean +/- s.d.	N	Mean +/- s.d.	N	Mean +/- s.d.
SYM-Q7: Baseline Mood (0-10)	262	3.8 +/- 2.1	262	3.8 +/- 2.1	0	0 +/- 0
HADS-Anxiety (0-21)	261	6.9 +/- 4.3	261	6.9 +/- 4.3	0	0 +/- 0
HADS-Depression (0-21)	260	4.6 +/- 3.7	260	4.6 +/- 3.7	0	0 +/- 0
PANAS Positive Affect (5-50)	261	30.9 +/- 7.4	261	30.9 +/- 7.4	0	0 +/- 0
PANAS Negative Affect (5-50)	262	19.6 +/- 7.2	262	19.6 +/- 7.2	0	0 +/- 0
Perceived Stress Scale (PSS) (0-40)	260	14.9 +/- 7.2	260	14.9 +/- 7.2	0	0 +/- 0
IPIP: Neuroticism (24-120)	256	60.1 +/- 15.6	256	60.1 +/- 15.6	0	0 +/- 0
IPIP: Extraversion (24-120)	259	81.4 +/- 13.9	259	81.4 +/- 13.9	0	0 +/- 0
IPIP: Openness (24-120)	256	83.1 +/- 12.7	256	83.1 +/- 12.7	0	0 +/- 0
IPIP: Agreeableness (24-120)	260	96.1 +/- 10.1	260	96.1 +/- 10.1	0	0 +/- 0
IPIP: Conscientiousness (24-120)	259	97.4 +/- 13.3	259	97.4 +/- 13.3	0	0 +/- 0
CSQ: CAT (0-36)	261	11.4 +/- 8.4	261	11.4 +/- 8.4	0	0 +/- 0
CSQ: Baseline Average of Questions 1 to 6 (0-6)	261	1.9 +/- 1.4	261	1.9 +/- 1.4	0	0 +/- 0
CSQ: Ability to Control Pain with Coping (0-6)	249	3.1 +/- 1.5	249	3.1 +/- 1.5	0	0 +/- 0
CSQ: Ability to Decrease Pain with Coping (0-6)	261	2.7 +/- 1.5	261	2.7 +/- 1.5	0	0 +/- 0

	UCPPS with Syndromes (n=162) Manuscript		UCPPS with Syndromes (n=162) DSIC		Diff. (n=0)	
	N	Mean +/- s.d.	N	Mean +/- s.d.	N	Mean +/- s.d.
SYM-Q7: Baseline Mood (0-10)	162	4.9 +/- 2.3	162	4.9 +/- 2.3	0	0 +/- 0
HADS-Anxiety (0-21)	161	8.9 +/- 4.7	161	8.9 +/- 4.7	0	0 +/- 0
HADS-Depression (0-21)	162	6.6 +/- 4.6	162	6.6 +/- 4.6	0	0 +/- 0
PANAS Positive Affect (5-50)	161	28.1 +/- 7.7	161	28.1 +/- 7.7	0	0 +/- 0
PANAS Negative Affect (5-50)	162	23.6 +/- 8.8	162	23.6 +/- 8.8	0	0 +/- 0
Percieved Stress Scale (PSS) (0-40)	161	19.0 +/- 8.4	161	19.0 +/- 8.4	0	0 +/- 0
IPIP: Neuroticism (24-120)	160	67.1 +/- 17.8	160	67.1 +/- 17.8	0	0 +/- 0
IPIP: Extraversion (24-120)	160	78.7 +/- 13.6	160	78.7 +/- 13.6	0	0 +/- 0
IPIP: Openness (24-120)	157	83.1 +/- 11.9	157	83.1 +/- 11.9	0	0 +/- 0
IPIP: Agreeableness (24-120)	160	95.3 +/- 10.4	160	95.3 +/- 10.4	0	0 +/- 0
IPIP: Conscientiousness (24-120)	160	94.4 +/- 13.2	160	94.4 +/- 13.2	0	0 +/- 0
CSQ: CAT (0-36)	161	14.4 +/- 9.2	161	14.4 +/- 9.2	0	0 +/- 0
CSQ: Baseline Average of Questions 1 to 6 (0-6)	161	2.4 +/- 1.5	161	2.4 +/- 1.5	0	0 +/- 0
CSQ: Ability to Control Pain with Coping (0-6)	157	3.0 +/- 1.4	157	3.0 +/- 1.4	0	0 +/- 0
CSQ: Ability to Decrease Pain with Coping (0-6)	157	2.9 +/- 1.3	157	2.9 +/- 1.3	0	0 +/- 0

Appendix A: SAS Code

```
**** Dataset integrity check for the MAPP study baseline data;
****
**** Programmer: Allyson Mateja
**** Date: January 25, 2016
```

```
title "%sysfunc(getoption(sysin))";
title2 " ";
```

```
proc format;
  value siteidf 1 = 'Northwestern U'
              2 = 'UCLA'
              3 = 'U of Iowa'
              4 = 'U of Michigan'
              5 = 'U of Washington'
              6 = 'WashU St. Louis'
              7 = 'Stanford U';

  value agef 1 = '<35 years'
            2 = '35-50 years'
            3 = '50+ years';

  value racef 1 = 'White'
            2 = 'Black'
            3-8 = 'Other';

  value sexf 1 = 'Male'
            2 = 'Female';

  value ethnicf 1 = 'Hispanic'
               2 = 'Non-Hispanic'
               3 = 'Unknown';

  value jobf 1 = 'Employed'
            2 = 'Unemployed'
            3 = 'Retired'
            4 = 'Full-time homemaker'
            5 = 'Disabled'
            . = 'Missing';

  value incomef 1 = '$10,000 or less'
               2 = '$10,001 to $25,000'
               3 = '$25,001 to $50,000'
               4 = '$50,001 to $100,000'
               5 = 'More than $100,000'
               99 = 'Prefer not to Answer'
               . = 'Missing';

  value cmsif 1 = 'None'
            2 = 'CFS Only'
            3 = 'IBS Only'
            4, 6, 7, 8 = '>1 Dx'
            5 = 'FM Only';
```

```

libname sas_data '/prj/niddk/ims_analysis/MAPP/private_orig_data/MAPP_Updated_Files for Repository_20160123/Files for Repository/';

options nofmterr;

data baseline;
    set sas_data.mappniddkdata_bsl_21jan2016;

proc contents data=baseline;

proc freq data=baseline;
    tables cohorttype nuas cohorttype*nuas /list missing;

data ucpps;
    set baseline;
    if cohorttype = 1;

**** Table 1;

proc freq data=ucpps;
    tables nuas;
    title3 'Table 1 - Overall Population';

proc sort data=ucpps;
    by nuas;

proc freq data=ucpps;
    tables sitenum;
    format sitenum siteidf.;
    title3 ' Table 1 - Clinical Site';

proc freq data=ucpps;
    tables sitenum;
    format sitenum siteidf.;
    by nuas;

proc means data=ucpps mean std;
    var dursym_yrs;
    title3 'Table 1 - Duration of Symptoms';

proc means data=ucpps mean std;
    var dursym_yrs;
    class nuas;

proc means data=ucpps mean std;
    var age;
    title3 'Table 1 - Age';

proc means data=ucpps mean std;
    var age;
    class nuas;

proc freq data=ucpps;
    tables agegrp;
    format agegrp agef.;
    title3 'Table 1 - Age Group';

```



```

proc freq data=ucpps;
  tables agegrp;
  format agegrp agef.;
  by nuas;

proc freq data=ucpps;
  tables racecat;
  format racecat racef.;
  title3 'Table 1 - Race';

proc freq data=ucpps;
  tables racecat;
  format racecat racef.;
  by nuas;

proc freq data=ucpps;
  tables sex;
  format sex sexf.;
  title3 'Table 1 - Gender';

proc freq data=ucpps;
  tables sex;
  format sex sexf.;
  by nuas;

proc freq data=ucpps;
  tables ethnicat;
  format ethnicat ethnicf.;
  title3 'Table 1 - Ethnicity';

proc freq data=ucpps;
  tables ethnicat;
  format ethnicat ethnicf.;
  by nuas;

proc freq data=ucpps;
  tables job /missing;
  format job jobf.;
  title3 'Table 1 - Employment';

proc freq data=ucpps;
  tables job /missing;
  format job jobf.;
  by nuas;

proc freq data=ucpps;
  tables income /missing;
  format income incomef.;
  title3 'Table 1 - Employment';

proc freq data=ucpps;
  tables income /missing;
  format income incomef.;
  by nuas;

```

```

**** Table 2;

proc freq data=ucpps;
  tables cmsigrp /list missing;
  format cmsigrp cmsif.;
  title3 'Table 2 - Presence of Types of NUAS';

proc freq data=ucpps;
  tables cmsigrp /list missing;
  format cmsigrp cmsif.;
  by nuas;

proc freq data=ucpps;
  tables ricecase;
  title3 'Table 2 - IC/PBS Diagnosis from RICE';

proc freq data=ucpps;
  tables ricecase;
  by nuas;

proc freq data=ucpps;
  tables icpbs_elig;
  title3 'Table 2 - Met MAPP IC/PBS Criteria';

proc freq data=ucpps;
  tables icpbs_elig;
  by nuas;

**** Table 3;

proc means data=ucpps n mean std;
  var symq1_bsl;
  class nuas;
  title3 'Table 3 - SYM-Q1: Baseline Pain (0-10)';

proc means data=ucpps n mean std;
  var symq2_bsl;
  class nuas;
  title3 'Table 3 - SYM-Q2: Baseline Urgency (0-10)';

proc means data=ucpps n mean std;
  var symq3_bsl;
  class nuas;
  title3 'Table 3 - SYM-Q3: Baseline Frequency (0-10)';

proc means data=ucpps n mean std;
  var symq4_bsl;
  class nuas;
  title3 'Table 3 - SYM-Q4: Baseline Void (1-4)';

proc means data=ucpps n mean std;
  var symq5_bsl;
  class nuas;
  title3 'Table 3 - SYM-Q5: Baseline Uro-Symptoms (0-10)';

proc means data=ucpps n mean std;

```

```

var symq6_bsl;
class nuas;
title3 'Table 3 - SYM-Q6: Baseline NonUro-Symptoms (0-10)';

proc means data=ucpps n mean std;
var gupiscorepain_bsl;
class nuas;
title3 'Table 3 - Baseline GUPI Pain Score (0-23)';

proc means data=ucpps n mean std;
var gupiscoreurin_bsl;
class nuas;
title3 'Table 3 - Baseline GUPI Urinary Subscale (0-10)';

proc means data=ucpps n mean std;
var gupiscoreqol_bsl;
class nuas;
title3 'Table 3 - Baseline GUPI QOL Impact Subscale (0-12)';

proc means data=ucpps n mean std;
var gupiscoretotal_bsl;
class nuas;
title3 'Table 3 - Baseline GUPI Total Score (0-45)';

proc means data=ucpps n mean std;
var ICSItot_bsl;
class nuas;
title3 'Table 3 - ICINDEX-Symptom (0-20)';

proc means data=ucpps n mean std;
var ICPItot_bsl;
class nuas;
title3 'Table 3 - ICINDEX-Problem (0-16)';

proc means data=ucpps n mean std;
var AUASItot_bsl;
class nuas;
title3 'Table 3 - AUA Symptom Score Index over the Past Month (0-35)';

proc means data=ucpps n mean std;
var bpisevs_bsl;
class nuas;
title3 'Table 3 - BPI Pain Severity Score (0-10)';

proc means data=ucpps n mean std;
var bpiifs_bsl;
class nuas;
title3 'Table 3 - BPI Pain Interference Score (0-10)';

proc means data=ucpps n mean std;
var bpsiten_bsl;
class nuas;
title3 'Table 3 - BPI: Reported # of Sites Checked (0-45)';

proc means data=ucpps n mean std;
var bpsitepct_bsl;

```

```

class nuas;
title3 'Table 3 - BPI: % of Sites Checked (out of 45)';

proc means data=ucpps n mean std;
var bpsiten2_bsl;
class nuas;
title3 'Table 3 - BPI: Reported # of Sites Checked, incl. Gender-Specific (0-49)';

proc means data=ucpps n mean std;
var bpsitepct2_bsl;
class nuas;
title3 'Table 3 - BPI: % of Sites Checked (out of 49), incl. Gender-Specific';

proc means data=ucpps n mean std;
var FSFI_total_bsl;
class nuas;
title3 'Table 3 - FSFI(Female ) (0-36)';

proc means data=ucpps n mean std;
var iieftot_bsl;
class nuas;
title3 'Table 3 - IIEF-6(Male) (0-30)';

proc freq data=ucpps;
tables cmed4urop_bsl;
title3 'Table 3 - Taking Medications for Urologic or Pelvic Pain Symptoms';

proc freq data=ucpps;
tables cmed4urop_bsl;
by nuas;

**** Table 4;

proc means data=ucpps n mean std;
var symq7_bsl;
class nuas;
title3 'Table 4 - SYM-Q7: Baseline Mood (0-10)';

proc means data=ucpps n mean std;
var hadsanxtot_bsl;
class nuas;
title3 'Table 4 - HADS-Anxiety (0-21)';

proc means data=ucpps n mean std;
var hadsdeptot_bsl;
class nuas;
title3 'Table 4 - HADS-Depression (0-21)';

proc means data=ucpps n mean std;
var panaspos_bsl;
class nuas;
title3 'Table 4 - PANAS Positive Affect (5-50)';

proc means data=ucpps n mean std;
var panasneg_bsl;
class nuas;

```

```

title3 'Table 4 - PANAS Negative Affect (5-50)';

proc means data=ucpps n mean std;
  var PSS_bsl;
  class nuas;
  title3 'Table 4 - Percieved Stress Scale (PSS) (0-40)';

proc means data=ucpps n mean std;
  var IPIP_N;
  class nuas;
  title3 'Table 4 - IPIP:Neuroticism (24-120)';

proc means data=ucpps n mean std;
  var IPIP_E;
  class nuas;
  title3 'Table 4 - IPIP:Extraversion (24-120)';

proc means data=ucpps n mean std;
  var IPIP_O;
  class nuas;
  title3 'Table 4 - IPIP:Openness (24-120)';

proc means data=ucpps n mean std;
  var IPIP_A;
  class nuas;
  title3 'Table 4 - IPIP:Agreeableness (24-120)';

proc means data=ucpps n mean std;
  var IPIP_C;
  class nuas;
  title3 'Table 4 - IPIP:Conscientiousness (24-120)';

proc means data=ucpps n mean std;
  var csqsumlto6_bsl;
  class nuas;
  title3 'Table 4 - CSQ: CAT (0-36)';

proc means data=ucpps n mean std;
  var csqavglto6_bsl;
  class nuas;
  title3 'Table 4 - CSQ: Baseline Average of Questions 1 to 6 (0-6)';

proc means data=ucpps n mean std;
  var CSQ_Q7;
  class nuas;
  title3 'Table 4 - CSQ: Ability to Control Pain with Coping (0-6)';

proc means data=ucpps n mean std;
  var CSQ_Q8;
  class nuas;
  title3 'Table 4 - CSQ: Ability to Decrease Pain with Coping (0-6)';

```