

**Characteristics and Gender Differences of Headache in the Veterans Health Administration: A National Cohort Study, Fiscal Year 2008–2019 – eTables 1-3**

eTable 1 – *ICD-9/10-CM* Diagnostic Codes for Headache Crosswalk

eTable 2 – Veterans Health Administration Commonly Used Clinic Stop Codes

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**eTable 1. ICD-9/10-CM Diagnostic Codes for Headache Crosswalk<sup>a</sup>**

	<i>ICD-9-CM</i>	<i>ICD-10-CM</i>
<b>Headache, NOS</b>	784.0	R51.
<b>Migraine</b>	346.XX	G43.XXX, G43.BX
<i>Migraine, without aura</i>	346.1X	G43.0XX
<i>Migraine, with aura</i>	346.0X	G43.1XX
<i>Chronic Migraine</i>	346.7X	G43.7XX
<b>Tension Headache</b>	307.81, 339.1X	G44.2XX
<b>TAC</b>	339.0X, 339.41	G44.0XX, G44.51
<i>Cluster Headache</i>	339.00, 339.01, 339.02	G44.00X, G44.01X, G44.02X
<i>Hemicrania</i>	339.03, 339.04, 339.41	G44.03X, G44.04X, G44.51
<b>Other Primary Headache Disorders</b>	339.42, 339.43, 339.44, 339.8X	G43.CX, G44.52, G44.53, G44.54, G44.59, G44.8X
<b>Post-Traumatic Headache</b>	339.2X	G44.3XX
<b>Post-Whiplash Headache</b>	847.0	S13.4XXX, S13.8XXX, S13.9XXX
<b>Other Secondary Headache Disorders</b>	339.3	G44.1, G44.4X
<i>Vascular Headache</i>	-	G44.1
<i>Drug-Induced Headache</i>	339.3	G44.4X

<sup>a</sup> Abbreviations: International Classification of Diseases (ICD); Clinical Modification (CM); Not-otherwise-specified (NOS); trigeminal autonomic cephalalgia (TAC).

**eTable 2. Veterans Health Administration Clinic Stop Codes <sup>a</sup>**

<b>Department</b>	<b>Primary Stop Code</b>	<b>Secondary Stop Code</b>	<b>Description</b>
Neurology	106	-	EEG
	128	-	Video EEG
	212	-	EMG
	315	-	General Neurology
	325	-	Neurology Telephone
	345	-	Epilepsy Center of Excellence
PM&R	201	-	PM&R physician
	197	-	Polytrauma/TBI, Individual
	210	-	Spinal Cord Injury
	219	-	TBI
Pain Clinic	420	-	Pain Clinic
Psychiatry	509	509	Primary or Secondary
	502	185/186/187/188/509	Mental Health Clinic
	533	185/186/187/188/509	Mental Health Intervention Biomedical Care
ED	130	-	Emergency Department
	131	-	Urgent Care
Primary Care	323	-	Primary Care
	27	-	General Medicine
	301	-	Internal Medicine
	310	-	Infectious Disease
	338	-	Telephone Primary Care
	348	-	Primary Care group
	318	-	Geriatrics
	319	-	Geriatrics Evaluation
	350	-	Geriatric Primary
	324	-	Telephone Medicine
	326	-	Telephone Geriatrics
	172	-	HBPC NP PA
	170	-	HBPC physician
	349	-	Sleep Medicine
	534	-	Mental Health Integrated
Women's Care	322	-	Women's Primary Care
	404	-	Gynecology
	704	-	Women's Gender-Specific Preventive Care

<sup>a</sup> Abbreviations: Electroencephalogram (EEG); Electromyography (EMG); Physical Medicine and Rehabilitation

(PM&R); TBI (traumatic brain injury); PTSD (post-traumatic stress disorder); Emergency Department (ED); HBPC

(home-based primary care); NP (nurse practitioner); PA (physician assistant).

**eTable 3. Medically Diagnosed Headache Disorders Stratified by Gender and Veterans Integrated Service Networks within the Veterans Health Administration (N=1,523,960) <sup>a,b</sup>**

Geography		Gender		
VISN	Name	Women (n=262,505)	Men (n=1,262,455)	Total (N=1,524,960)
1	New England Health Care System	7121 (2.7%)	48952 (3.9%)	56073 (3.7%)
2	VA Health Care Network Upstate New York	9596 (3.7%)	57072 (4.5%)	66668 (4.4%)
4	VA Stars & Stripes Health Care Network	8254 (3.1%)	47423 (3.8%)	55677 (3.7%)
5	VA Capitol Health Care Network	10697 (4.1%)	43609 (3.5%)	54306 (3.6%)
6	VA Mid-Atlantic Health Care Network	23791 (9.1%)	80785 (6.4%)	104576 (6.9%)
7	The Southeast Network	27020 (10.3%)	90683 (7.2%)	117703 (7.7%)
8	VA Sunshine Health Care Network	22996 (8.8%)	110885 (8.8%)	133881 (8.8%)
9	VA Mid-South Health Care Network	10499 (4.0%)	58935 (4.7%)	69434 (4.6%)
10	VA Health Care System	15557 (5.9%)	98218 (7.8%)	113775 (7.5%)
12	VA Great Lakes Health Care System	9573 (3.6%)	55577 (4.4%)	65150 (4.3%)
15	VA Heartland Network	8509 (3.2%)	51369 (4.1%)	59878 (3.9%)
16	South Central VA Health Care Network	18760 (7.1%)	82712 (6.6%)	101472 (6.7%)
17	VA Heart of Texas Health Care Network	23434 (8.9%)	85948 (6.8%)	109382 (7.2%)
19	Rocky Mountain Network	12498 (4.8%)	63920 (5.1%)	76418 (5.0%)

20	Northwest Network	12686 (4.8%)	61081 (4.8%)	73767 (4.8%)
21	Sierra Pacific Network	11994 (4.6%)	65131 (5.2%)	77125 (5.1%)
22	Desert Pacific Health Care Network	20601 (7.8%)	104196 (8.3%)	124797 (8.2%)
23	VA Midwest Health Care Network	8919 (3.4%)	55959 (4.4%)	64878 (4.3%)

<sup>a</sup> Abbreviations: Veterans Integrated Service Network (VISN); Veterans Affairs (VA).

<sup>b</sup> P value less than 0.001 across all gender comparisons, stratified by VISN.