

## Supplementary Online Content

Armed Forces Health Surveillance Center. Health of women after wartime deployments: correlates of risk for selected medical conditions among females after initial and repeat deployments to Afghanistan and Iraq, active component, U.S. Armed Forces. *Medical Surveillance Monthly Report (MSMR)*. 2012; 19(7):2-10.

**TABLE 3 a.** Diagnoses of mental disorders and headaches among female service members, after second OEF/OIF/OND deployments, active component, U.S. Armed Forces

**TABLE 3 b.** Diagnoses of musculoskeletal conditions, reproductive system disorders, and respiratory disorders among female service members, after second OEF/OIF/OND deployments, active component, U.S. Armed Forces

**TABLE 4 a.** Diagnoses of mental disorders and headaches among female service members, after third OEF/OIF/OND deployments, active component, U.S. Armed Forces

**TABLE 4 b.** Diagnoses of musculoskeletal conditions, reproductive system disorders, and respiratory disorders among female service members, after third OEF/OIF/OND deployments, active component, U.S. Armed Forces

**TABLE 3 a.** Diagnoses of mental disorders and headaches among female service members, after second OEF/OIF/OND deployments, active component, U.S. Armed Forces

	No. "at risk"	Mental disorders															
		Episodic mood				Anxiety, dissociative, somatoform				Adjustment reaction				PTSD			
		No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)
Total	47,848	1,331	2.78			2,454	5.13			3,064	6.40			983	2.05		
Age group (years)																	
<25	19,529	521	2.67	ref	ref	923	4.73	ref	ref	1,227	6.28	ref	ref	364	1.86	ref	ref
≥25	28,319	810	2.86	1.07	0.88 (0.78,0.99)	1,531	5.41	1.15	0.97 (0.88,1.05)	1,837	6.49	1.03	0.89 (0.83,0.96)	619	2.19	1.18	1.03 (0.90,1.18)
Military occupation																	
Health care	4,411	171	3.88	ref	ref	319	7.23	ref	ref	397	9.00	ref	ref	169	3.83	ref	ref
Other	43,437	1,160	2.67	0.68	0.79 (0.66,0.93)	2,135	4.92	0.66	0.78 (0.68,0.88)	2,667	6.14	0.66	0.75 (0.66,0.84)	814	1.87	0.48	0.51 (0.43,0.61)
Marital status																	
Married	20,475	633	3.09	ref	ref	1,154	5.64	ref	ref	1,475	7.20	ref	ref	457	2.23	ref	ref
Other/unk	27,373	698	2.55	0.82	0.89 (0.79,0.99)	1,300	4.75	0.83	0.91 (0.83,0.98)	1,589	5.80	0.79	0.85 (0.79,0.92)	526	1.92	0.86	0.91 (0.80,1.03)
Service																	
Army	18,916	697	3.68	ref	ref	1,265	6.69	ref	ref	1,823	9.64	ref	ref	631	3.34	ref	ref
Navy	11,309	196	1.73	0.46	0.48 (0.40,0.58)	351	3.10	0.45	0.50 (0.43,0.58)	358	3.17	0.31	0.35 (0.31,0.40)	110	0.97	0.28	0.34 (0.27,0.43)
Air Force	15,137	368	2.43	0.65	0.60 (0.51,0.71)	735	4.86	0.71	0.74 (0.65,0.83)	790	5.22	0.52	0.54 (0.49,0.61)	180	1.19	0.35	0.46 (0.38,0.57)
Marine Corps	2,470	70	2.83	0.76	0.83 (0.64,1.09)	103	4.17	0.61	0.71 (0.57,0.89)	92	3.72	0.36	0.41 (0.33,0.52)	62	2.51	0.75	0.84 (0.63,1.12)
Dwell time																	
<180 days	6,538	179	2.74	ref	ref	326	4.99	ref	ref	396	6.06	ref	ref	126	1.93	ref	ref
≥180 days	41,310	1,152	2.79	1.02	1.00 (0.84, 1.19)	2,128	5.15	1.03	0.95 (0.84, 1.09)	2,668	6.46	1.07	1.05 (0.93,1.18)	857	2.07	1.08	0.96 (0.78, 1.18)
History of condition																	
Ever prior diag	Varies by condition	391	16.35	9.25	9.15 (8.04,10.40)	846	18.37	5.83	5.65 (5.16,6.19)	974	16.25	3.69	3.32 (3.06,3.61)	137	15.39	9.92	8.85 (7.25,10.80)
Never prior diag		940	2.07	ref	ref	1,608	3.72	ref	ref	2,090	4.99	ref	ref	846	1.80	ref	ref
Deployment length																	
<4 mos	10,003	250	2.50	ref	ref	435	4.35	ref	ref	497	4.97	ref	ref	137	1.37	ref	ref
4-6 mos	12,965	323	2.49	1.00	1.03 (0.86,1.23)	593	4.57	1.05	1.08 (0.94,1.23)	656	5.06	1.02	1.13 (1.00,1.29)	138	1.06	0.77	0.92 (0.72,1.18)
6-9 mos	11,593	297	2.56	1.03	1.05 (0.88,1.26)	554	4.78	1.1	1.20 (1.05,1.38)	678	5.85	1.19	1.37 (1.21,1.56)	251	2.17	1.59	1.79 (1.43,2.23)
9-12 mos	6,763	219	3.24	1.31	0.92 (0.74,1.13)	414	6.12	1.43	1.11 (0.94,1.30)	593	8.77	1.84	1.14 (0.99,1.31)	215	3.18	2.36	1.50 (1.17,1.91)
>12 mos	6,524	242	3.71	1.50	1.07 (0.87,1.32)	458	7.02	1.66	1.32 (1.13,1.54)	640	9.81	2.08	1.38 (1.20,1.58)	242	3.71	2.77	1.81 (1.43,2.29)

TABLE 3 a. continued

	Mental disorders (continued)					Headaches							
	No."at risk"	Special symptoms or syndromes				Migraine				Headache			
		No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)
Total	47,848	1,379	2.88			2,815	5.88			3,552	7.42		
Age group (years)													
<25	19,529	532	2.72	ref	ref	936	4.79	ref	ref	1,382	7.08	ref	ref
≥25	28,319	847	2.99	1.10	0.94 (0.84,1.06)	1,879	6.64	1.41	0.98 (0.90,1.07)	2,170	7.66	1.09	0.90 (0.83,0.96)
Military occupation													
Health care	4,411	172	3.90	ref	ref	339	7.69	ref	ref	354	8.03	ref	ref
Other	43,437	1,207	2.78	0.70	0.80 (0.68,0.95)	2,476	5.70	0.73	0.96 (0.85,1.09)	3,198	7.36	0.91	1.03 (0.91,1.15)
Marital status													
Married	20,475	605	2.95	ref	ref	1,362	6.65	ref	ref	1,673	8.17	ref	ref
Other/unk	27,373	774	2.83	0.96	1.03 (0.93,1.15)	1,453	5.31	0.79	0.92 (0.84,0.99)	1,879	6.86	0.83	0.91 (0.85,0.98)
Service													
Army	18,916	758	4.01	ref	ref	1,279	6.76	ref	ref	1,802	9.53	ref	ref
Navy	11,309	160	1.41	0.34	0.36 (0.30,0.44)	485	4.29	0.62	0.75 (0.66,0.86)	508	4.49	0.45	0.49 (0.44,0.55)
Air Force	15,137	423	2.79	0.69	0.68 (0.58,0.79)	973	6.43	0.95	0.94 (0.83,1.05)	1,143	7.55	0.78	0.78 (0.71,0.86)
Marine Corps	2,470	37	1.50	0.36	0.39 (0.28,0.55)	78	3.16	0.45	0.61 (0.48,0.79)	99	4.01	0.40	0.44 (0.36,0.55)
Dwell time													
<180 days	6,538	184	2.81	ref	ref	330	5.05	ref	ref	454	6.94	ref	ref
≥180 days	41,310	1,195	2.89	1.03	1.00 (0.84,1.19)	2,485	6.02	1.20	0.95 (0.83,1.08)	3,098	7.50	1.09	1.06 (0.95,1.18)
History of condition													
Ever prior diag	Varies by condition	312	8.05	3.52	3.38 (2.96,3.86)	1,488	26.39	11.04	10.73 (9.88,11.66)	1,567	13.63	2.73	2.58 (2.40,2.77)
Never prior diag		1,067	2.43	ref	ref	1,327	3.14	ref	ref	1,985	5.46	ref	ref
Deployment length													
<4 mos	10,003	235	2.35	ref	ref	520	5.20	ref	ref	657	6.6	ref	ref
4-6 mos	12,965	332	2.56	1.09	1.17 (0.98,1.40)	742	5.72	1.11	1.02 (0.90,1.16)	900	6.9	1.06	1.07 (0.96,1.20)
6-9 mos	11,593	295	2.54	1.09	1.28 (1.07,1.53)	642	5.54	1.07	1.12 (0.98,1.28)	780	6.7	1.03	1.13 (1.01,1.26)
9-12 mos	6,763	280	4.14	1.80	1.30 (1.07,1.60)	454	6.71	1.31	1.15 (0.98,1.34)	584	8.6	1.34	0.99 (0.86,1.13)
>12 mos	6,524	237	3.63	1.57	1.15 (0.93,1.41)	457	7.00	1.37	1.18 (1.01,1.38)	631	9.7	1.52	1.16 (1.02,1.32)

**TABLE 3 b.** Diagnoses of musculoskeletal conditions, reproductive system disorders, and respiratory disorders among female service members, after second OEF/OIF/OND deployments, active component, U.S. Armed Forces

Musculoskeletal conditions																	
	No."at risk"	Intervertebral disk				Other disorders of cervical region				Other back				Other joint			
		No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)
Total	47,848	1,236	2.58			2,085	4.36			7,812	16.33			9,641	20.15		
Age group (years)																	
<25	19,529	238	1.22	ref	ref	530	2.71	ref	ref	2,836	14.52	ref	ref	3,171	16.24	ref	ref
≥25	28,319	998	3.52	2.96	1.49 (1.04,2.13)	1,555	5.49	2.08	1.63 (1.47,1.81)	4,976	17.57	1.25	0.99 (0.94,1.04)	6,470	22.85	1.53	1.32 (1.26,1.39)
Military occupation																	
Health care	4,411	176	3.99	ref	ref	264	5.99	ref	ref	778	17.64	ref	ref	953	21.61	ref	ref
Other	43,437	1,060	2.44	0.60	0.91 (0.67,1.22)	1,821	4.19	0.69	0.82 (0.72,0.94)	7,034	16.19	0.90	0.98 (0.90,1.07)	8,688	20.00	0.91	1.01 (0.94,1.09)
Marital status																	
Married	20,475	605	2.95	ref	ref	958	4.68	ref	ref	3,620	17.68	ref	ref	4,354	21.26	ref	ref
Other/unk	27,373	631	2.31	0.77	1.16 (0.93,1.44)	1,127	4.12	0.87	1.05 (0.96,1.15)	4,192	15.31	0.84	0.96 (0.91,1.01)	5,287	19.31	0.89	1.02 (0.98,1.07)
Service																	
Army	18,916	719	3.80	ref	ref	1,006	5.32	ref	ref	4,053	21.43	ref	ref	5,177	27.37	ref	ref
Navy	11,309	131	1.16	0.30	0.46 (0.32,0.68)	245	2.17	0.39	0.45 (0.38,0.53)	971	8.59	0.34	0.45 (0.41,0.49)	1,006	8.90	0.26	0.36 (0.33,0.40)
Air Force	15,137	347	2.29	0.59	0.77 (0.56,1.05)	773	5.11	0.96	0.93 (0.82,1.06)	2,525	16.68	0.73	0.86 (0.80,0.93)	3,089	20.41	0.68	0.87 (0.81,0.93)
Marine Corps	2,470	39	1.58	0.41	0.50 (0.23,1.09)	61	2.47	0.45	0.58 (0.44,0.76)	261	10.57	0.43	0.57 (0.50,0.66)	367	14.86	0.46	0.58 (0.51,0.66)
Dwell time																	
<180 days	6,538	143	2.19	ref	ref	226	3.46	ref	ref	1,053	16.11	ref	ref	1,278	19.55	ref	ref
≥180 days	41,310	1,093	2.65	1.22	1.12 (0.76,1.65)	1,859	4.50	1.32	1.20 (1.04,1.40)	6,759	16.36	1.02	0.94 (0.87,1.02)	8,363	20.24	1.04	0.96 (0.89,1.03)
History of condition																	
Ever prior diag	Varies by condition	460	25.43	19.89	15.66 (13.72,17.87)	701	13.84	4.81	4.07 (3.69,4.49)	4,781	26.19	3.11	2.80 (2.66,2.95)	6,795	28.61	2.99	2.44 (2.32,2.56)
Never prior diag		776	1.69	ref	ref	1,384	3.23	ref	ref	3,031	10.24	ref	ref	2,846	11.81	ref	ref
Deployment length																	
<4 mos	10,003	214	2.14	ref	ref	378	3.78	ref	ref	1,407	14.07	ref	ref	1,609	16.09	ref	ref
4-6 mos	12,965	260	2.01	0.94	0.93 (0.64,1.34)	547	4.22	1.12	1.05 (0.91,1.21)	1,917	14.79	1.06	1.09 (1.01,1.18)	2,333	17.99	1.14	1.22 (1.13,1.31)
6-9 mos	11,593	275	2.37	1.11	1.03 (0.71,1.48)	455	3.92	1.04	1.13 (0.98,1.31)	1,674	14.44	1.03	1.19 (1.10,1.29)	2,094	18.06	1.15	1.35 (1.25,1.46)
9-12 mos	6,763	228	3.37	1.60	1.12 (0.76,1.65)	329	4.86	1.30	0.99 (0.84,1.18)	1,391	20.57	1.58	1.16 (1.06,1.28)	1,842	27.24	1.95	1.33 (1.22,1.46)
>12 mos	6,524	259	3.97	1.89	1.32 (0.91,1.92)	376	5.76	1.56	1.18 (1.00,1.40)	1,423	21.81	1.70	1.29 (1.18,1.42)	1,763	27.02	1.93	1.34 (1.23,1.47)

TABLE 3 b. continued

	Musculoskeletal continued					Reproductive system disorders								Respiratory disorders							
	No. "at risk"	Peripheral enthesopathy				Menstruation				Infertility				Sinusitis				Asthma			
	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	
Total	47,848	3,216	6.72		3,639	7.61			1,203	2.51			1,560	3.26			1,335	2.79			
Age group (years)																					
<25	19,529	870	4.45	ref	ref	1,388	7.11	ref	ref	334	1.71	ref	ref	451	2.31	ref	ref	511	2.62	ref	ref
≥25	28,319	2,346	8.28	1.94	(1.55,1.82)	2,251	7.95	1.13	(0.97,1.04)	869	3.07	1.82	(1.03,0.90,1.19)	1,109	3.92	1.72	(1.42,1.27,1.60)	824	2.91	1.12	(0.85,0.76,0.96)
Military occupation																					
Health care	4,411	352	7.98	ref	ref	356	8.07	ref	ref	122	2.77	ref	ref	176	3.99	ref	ref	120	2.72	ref	ref
Other	43,437	2,864	6.59	0.81	(0.84,1.06)	3,283	7.56	0.93	(0.99,0.88,1.12)	1,081	2.49	0.90	(1.04,0.85,1.27)	1,384	3.19	0.79	(0.96,0.81,1.13)	1,215	2.80	1.03	(1.18,0.97,1.45)
Marital status																					
Married	20,475	1,485	7.25	ref	ref	1,726	8.43	ref	ref	848	4.14	ref	ref	754	3.68	ref	ref	602	2.94	ref	ref
Other/unk	27,373	1,731	6.32	0.86	(0.99,0.92,1.07)	1,913	6.99	0.82	(0.91,0.84,0.97)	355	1.30	0.30	(0.43,0.38,0.49)	806	2.94	0.79	(0.92,0.83,1.02)	733	2.68	0.91	(0.99,0.88,1.11)
Service																					
Army	18,916	1,574	8.32	ref	ref	1,610	8.51	ref	ref	634	3.35	ref	ref	649	3.43	ref	ref	892	4.72	ref	ref
Navy	11,309	390	3.45	0.39	(0.49,0.43,0.56)	564	4.99	0.56	(0.63,0.56,0.70)	223	1.97	0.58	(0.86,0.71,1.05)	206	1.82	0.52	(0.60,0.50,0.72)	199	1.76	0.36	(0.44,0.37,0.53)
Air Force	15,137	1,112	7.35	0.87	(1.01,0.91,1.12)	1,339	8.85	1.04	(1.05,0.95,1.15)	311	2.05	0.60	(0.75,0.62,0.90)	662	4.37	1.29	(1.32,1.14,1.53)	204	1.35	0.28	(0.42,0.35,0.51)
Marine Corps	2,470	140	5.67	0.66	(0.77,0.63,0.93)	123	4.98	0.56	(0.63,0.51,0.76)	35	1.42	0.41	(0.67,0.47,0.96)	42	1.70	0.49	(0.59,0.43,0.82)	40	1.62	0.33	(0.42,0.30,0.59)
Dwell time																					
<180 days	6,538	443	6.78	ref	ref	489	7.48	ref	ref	126	1.93	ref	ref	176	2.69	ref	ref	186	2.84	ref	ref
≥180 days	41,310	2,773	6.71	0.99	(0.90,0.80,1.00)	3,150	7.63	1.02	(0.95,0.85,1.06)	1,077	2.61	1.36	(1.04,0.85,1.27)	1,384	3.35	1.25	(1.13,0.96,1.34)	1,149	2.78	0.98	(0.90,0.75,1.08)
History of condition																					
Ever prior diag	Varies by condition	1,457	12.11	2.67	(2.35,2.18,2.53)	1,650	13.03	2.50	(2.38,2.22,2.56)	498	19.61	15.43	(12.14,10.65,13.84)	434	9.11	3.74	(3.24,2.88,3.65)	719	21.52	19.54	(17.11,15.20,19.25)
Never prior diag		1,759	4.91	ref	ref	1,989	5.65	ref	ref	705	1.56	ref	ref	1,126	2.61	ref	ref	616	1.38	ref	ref
Deployment length																					
<4 mos	10,003	563	5.63	ref	ref	685	6.85	ref	ref	185	1.85	ref	ref	283	2.83	ref	ref	206	2.06	ref	ref
4-6 mos	12,965	836	6.45	1.16	(1.19,1.06,1.34)	989	7.63	1.12	(1.08,0.98,1.21)	290	2.24	1.21	(1.25,1.02,1.52)	458	3.53	1.26	(1.12,0.96,1.32)	272	2.10	1.02	(1.31,1.08,1.60)
6-9 mos	11,593	723	6.24	1.12	(1.27,1.12,1.43)	838	7.23	1.06	(1.16,1.04,1.30)	256	2.21	1.2	(1.23,1.00,1.50)	354	3.05	1.08	(1.16,0.98,1.37)	281	2.42	1.18	(1.41,1.16,1.71)
9-12 mos	6,763	564	8.34	1.53	(1.26,1.09,1.45)	556	8.22	1.22	(1.12,0.98,1.28)	217	3.21	1.76	(1.48,1.17,1.87)	222	3.28	1.17	(1.11,0.91,1.37)	289	4.27	2.12	(1.19,0.97,1.47)
>12 mos	6,524	530	8.12	1.48	(1.21,1.05,1.39)	571	8.75	1.3	(1.20,1.06,1.37)	255	3.91	2.16	(1.78,1.42,2.23)	243	3.72	1.33	(1.21,0.99,1.48)	287	4.40	2.19	(1.28,1.04,1.58)

**TABLE 4a.** Diagnoses of mental disorders and headaches among female service members, after third OEF/OIF/OND deployments, active component, U.S. Armed Forces

	No. "at risk"	Mental disorders															
		Episodic mood				Anxiety, dissociative, somatoform				Adjustment reaction				PTSD			
	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	
Total	11,220	289	2.58		589	5.25			725	6.46			262	2.34			
Age group																	
<25	3,051	68	2.23	ref	ref	154	5.05	ref	ref	191	6.26	ref	ref	60	1.97	ref	ref
≥25	8,169	221	2.71	1.22	0.95 (0.71,1.26)	435	5.33	1.06	0.87 (0.72,1.06)	534	6.54	1.05	0.87 (0.73,1.04)	202	2.47	1.26	1.11 (0.82,1.50)
Military occupation																	
Health care	787	33	4.19	ref	ref	43	5.46	ref	ref	68	8.64	ref	ref	26	3.30	ref	ref
Other	10,433	256	2.45	0.57	0.60 (0.41,0.88)	546	5.23	0.96	1.08 (0.77,1.50)	657	6.30	0.71	0.78 (0.59,1.02)	236	2.26	0.68	0.70 (0.46, 1.07)
Marital status																	
Married	4,730	126	2.66	ref	ref	246	5.20	ref	ref	329	6.96	ref	ref	102	2.16	ref	ref
Other/unk	6,490	163	2.51	0.94	1.01 (0.79,1.29)	343	5.29	1.02	1.11 (0.93,1.32)	396	6.10	0.87	0.94 (0.80,1.09)	160	2.47	1.15	1.20 (0.93, 1.55)
Service																	
Army	3,741	142	3.80	ref	ref	256	6.84	ref	ref	365	9.76	ref	ref	136	3.64	ref	ref
Navy	2,088	33	1.58	0.40	0.45 (0.29,0.70)	68	3.26	0.46	0.58 (0.42,0.79)	81	3.88	0.37	0.50 (0.38,0.67)	30	1.44	0.39	0.52 (0.33, 0.83)
Air Force	4,963	103	2.08	0.51	0.61 (0.43,0.86)	249	5.02	0.72	0.91 (0.71,1.17)	265	5.34	0.52	0.67 (0.53,0.83)	82	1.65	0.45	0.74 (0.51, 1.07)
Marine Corps	423	10	2.36	0.58	0.72 (0.36,1.44)	16	3.78	0.54	0.68 (0.40,1.18)	14	3.31	0.32	0.45 (0.26,0.80)	14	3.31	0.91	1.11 (0.60, 2.04)
Dwell time																	
<180 days	2,108	37	1.76	ref	ref	77	3.65	ref	ref	98	4.65	ref	ref	33	1.57	ref	ref
≥180 days	9,112	252	2.77	1.59	1.20 (0.82,1.74)	512	5.62	1.57	1.27 (0.98,1.65)	627	6.88	1.52	1.20 (0.95,1.52)	229	2.51	1.62	1.21 (0.82, 1.78)
History of condition																	
Ever prior diag	Varies by condition	93	14.49	8.97	8.71 (6.67,11.36)	227	18.67	6.11	6.02 (5.02,7.21)	252	15.94	3.67	3.36 (2.85,3.97)	37	15.35	8.67	7.13 (4.86,10.46)
Never prior diag		196	1.85	ref	ref	362	3.62	ref	ref	473	4.91	ref	ref	225	2.05	ref	ref
Deployment length																	
<4 mos	2,697	41	1.52	ref	ref	97	3.60	ref	ref	115	4.26	ref	ref	29	1.08	ref	ref
4-6 mos	3,358	74	2.20	1.46	1.41 (0.94,2.12)	156	4.65	1.31	1.18 (0.90,1.54)	190	5.66	1.35	1.33 (1.04,1.71)	42	1.25	1.16	1.11 (0.68, 1.81)
6-9 mos	2,489	68	2.73	1.82	1.74 (1.15,2.63)	134	5.38	1.53	1.41 (1.06,1.87)	137	5.50	1.31	1.30 (1.00,1.70)	78	3.13	2.98	2.76 (1.76, 4.30)
9-12 mos	1,120	43	3.84	2.59	1.73 (1.05,2.87)	81	7.23	2.09	1.63 (1.14,2.33)	115	10.27	2.57	1.70 (1.24,2.32)	50	4.46	4.30	2.88 (1.70, 4.89)
>12 mos	1,556	63	4.05	2.73	1.89 (1.19,3.01)	121	7.78	2.26	1.84 (1.32,2.56)	168	10.80	2.72	1.83 (1.37,2.45)	63	4.05	3.88	2.64 (1.59, 4.40)

TABLE 4a. continued

Mental disorders continued						Headaches							
	No. "at risk"	Special symptoms or syndromes				Migraine				Headache			
		No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)
Total	11,220	359	3.20			708	6.31			858	7.65		
Age group													
<25	3,051	70	2.29	ref	ref	167	5.47	ref	ref	218	7.15	ref	ref
≥25	8,169	289	3.54	1.56	1.35 (1.03,1.77)	541	6.62	1.22	0.84 (0.69,1.02)	640	7.83	1.10	0.89 (0.75,1.05)
Military occupation													
Health care	787	49	6.23	ref	ref	60	7.62	ref	ref	79	10.04	ref	ref
Other	10,433	310	2.97	0.46	0.50 (0.36,0.68)	648	6.21	0.80	0.96 (0.71,1.29)	779	7.47	0.72	0.77 (0.60,0.99)
Marital status													
Married	4,730	134	2.83	ref	ref	316	6.68	ref	ref	401	8.48	ref	ref
Other/unk	6,490	225	3.47	1.23	1.34 (1.08,1.68)	392	6.04	0.90	0.99 (0.84,1.17)	457	7.04	0.82	0.89 (0.77,1.02)
Service													
Army	3,741	176	4.70	ref	ref	287	7.67	ref	ref	366	9.78	ref	ref
Navy	2,088	40	1.92	0.40	0.44 (0.30,0.65)	100	4.79	0.61	0.87 (0.65,1.15)	108	5.17	0.50	0.58 (0.45,0.75)
Air Force	4,963	137	2.76	0.58	0.65 (0.48,0.87)	308	6.21	0.80	0.96 (0.76,1.22)	363	7.31	0.73	0.81 (0.66,0.99)
Marine Corps	423	6	1.42	0.29	0.35 (0.15,0.80)	13	3.07	0.38	0.60 (0.33,1.09)	21	4.96	0.48	0.58 (0.36,0.93)
Dwell time													
<180 days	2,108	65	3.08	ref	ref	99	4.70	ref	ref	134	6.36	ref	ref
≥180 days	9,112	294	3.23	1.05	0.89 (0.66,1.19)	609	6.68	1.45	1.17 (0.92,1.50)	724	7.95	1.27	1.09 (0.89,1.34)
History of condition													
Ever prior diag	Varies by condition	75	7.16	2.69	2.46 (1.89,3.22)	418	27.04	11.99	11.93 (10.11,14.08)	418	13.91	2.85	2.68 (2.32,3.10)
Never prior diag		284	2.79	ref	ref	290	3.00	ref	ref	440	5.36	ref	ref
Deployment length													
<4 mos	2,697	64	2.37	ref	ref	130	4.82	ref	ref	155	5.7	ref	ref
4-6 mos	3,358	86	2.56	1.08	1.14 (0.81,1.61)	217	6.46	1.36	1.09 (0.86,1.40)	243	7.2	1.28	1.21 (0.98,1.51)
6-9 mos	2,489	83	3.33	1.42	1.56 (1.11,2.21)	143	5.75	1.2	1.03 (0.79,1.34)	200	8.0	1.43	1.41 (1.13,1.77)
9-12 mos	1,120	51	4.55	1.96	1.42 (0.93,2.19)	93	8.30	1.79	1.48 (1.05,2.07)	108	9.6	1.75	1.28 (0.95,1.72)
>12 mos	1,556	75	4.82	2.08	1.55 (1.04,2.30)	125	8.03	1.72	1.41 (1.03,1.93)	152	9.8	1.78	1.34 (1.02,1.76)

**TABLE 4b.** Diagnoses of musculoskeletal conditions, reproductive system disorders, and respiratory disorders among female service members, after second OEF/OIF/OND deployments, active component, U.S. Armed Forces

Musculoskeletal disorders																	
	No. "at risk"	Intervertebral disk				Other disorders of cervical region				Other back				Other joint			
		No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No. with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)
Total	11,220	371	3.31			576	5.13			1,971	17.57			2,479	22.09		
Age group																	
<25	3,051	54	1.77	ref	ref	95	3.11	ref	ref	480	15.73	ref	ref	556	18.22	ref	ref
≥25	8,169	317	3.88	2.24	(1.12, 2.19)	481	5.89	1.95	(1.17, 1.86)	1,491	18.25	1.20	(0.82, 1.04)	1,923	23.54	1.38	(1.01, 1.26)
Military occupation																	
Health care	787	32	4.07	ref	ref	50	6.35	ref	ref	137	17.41	ref	ref	168	21.35	ref	ref
Other	10,433	339	3.25	0.79	(1.14, 0.57, 2.28)	526	5.04	0.78	(0.65, 1.21)	1,834	17.58	1.01	(0.85, 1.26)	2,311	22.15	1.05	(0.89, 1.28)
Marital status																	
Married	4,730	165	3.49	ref	ref	242	5.12	ref	ref	908	19.20	ref	ref	1,098	23.21	ref	ref
Other/unk	6,490	206	3.17	0.91	(1.25, 0.85, 1.85)	334	5.15	1.01	(1.14, 0.96, 1.36)	1,063	16.38	0.82	(0.93, 0.84, 1.03)	1,381	21.28	0.89	(0.98, 0.89, 1.07)
Service																	
Army	3,741	197	5.27	ref	ref	237	6.34	ref	ref	869	23.23	ref	ref	1,134	30.31	ref	ref
Navy	2,088	36	1.72	0.32	(0.47, 0.21, 1.03)	41	1.96	0.30	(0.36, 0.25, 0.52)	202	9.67	0.35	(0.48, 0.40, 0.58)	224	10.73	0.28	(0.42, 0.35, 0.51)
Air Force	4,963	130	2.62	0.48	(0.72, 0.44, 1.18)	287	5.78	0.91	(0.96, 0.76, 1.22)	842	16.97	0.68	(0.82, 0.71, 0.95)	1,050	21.16	0.62	(0.87, 0.77, 1.00)
Marine Corps	423	8	1.89	0.35	(0.26, 0.03, 2.15)	10	2.36	0.36	(0.49, 0.25, 0.96)	58	13.71	0.53	(0.73, 0.54, 0.99)	70	16.55	0.46	(0.62, 0.47, 0.82)
Dwell time																	
<180 days	2,108	60	2.85	ref	ref	91	4.32	ref	ref	298	14.14	ref	ref	371	17.60	ref	ref
≥180 days	9,112	311	3.41	1.21	(0.87, 0.51, 1.49)	485	5.32	1.25	(1.00, 0.78, 1.28)	1,673	18.36	1.37	(1.14, 0.99, 1.32)	2,108	23.13	1.41	(1.16, 1.01, 1.32)
History of condition																	
Ever prior diag	Varies by condition	146	26.21	16.48	(14.14, 11.16, 17.93)	248	16.39	5.61	(4.92, 4.12, 5.89)	1,318	27.36	3.32	(2.98, 2.68, 3.31)	1,833	30.58	3.12	(2.62, 2.36, 2.90)
Never prior diag		225	2.11	ref	ref	328	3.38	ref	ref	653	10.20	ref	ref	646	12.36	ref	ref
Deployment length																	
<4 mos	2,697	67	2.48	ref	ref	98	3.63	ref	ref	340	12.61	ref	ref	450	16.69	ref	ref
4-6 mos	3,358	88	2.62	1.06	(1.24, 0.69, 2.26)	179	5.33	1.49	(1.46, 1.12, 1.91)	558	16.62	1.38	(1.32, 1.13, 1.54)	657	19.57	1.21	(1.23, 1.07, 1.42)
6-9 mos	2,489	87	3.50	1.42	(1.31, 0.70, 2.47)	131	5.26	1.47	(1.56, 1.18, 2.08)	458	18.40	1.56	(1.52, 1.29, 1.79)	551	22.14	1.42	(1.44, 1.24, 1.67)
9-12 mos	1,120	59	5.27	2.18	(1.84, 0.94, 3.61)	71	6.34	1.79	(1.48, 1.03, 2.14)	256	22.86	2.05	(1.37, 1.11, 1.68)	362	32.32	2.38	(1.62, 1.34, 1.95)
>12 mos	1,556	70	4.50	1.85	(1.50, 0.79, 2.84)	97	6.23	1.76	(1.45, 1.03, 2.03)	359	23.07	2.08	(1.46, 1.21, 1.78)	459	29.50	2.09	(1.44, 1.21, 1.72)



TABLE 4b. continued

	Musculoskeletal disorders continued					Reproductive system disorders								Respiratory disorders							
	No."at risk"	Peripheral enthesopathy				Menstruation				Infertility				Sinusitis				Asthma			
	No.with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No.with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No.with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No.with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	No.with diag	% with diag	Rel % (vs ref)	Adj OR (95% CI)	
Total	11,220	810	7.22		867	7.73			308	2.75			427	3.81			291	2.59			
Age group																					
<25	3,051	153	5.01	ref	ref	214	7.01	ref	ref	58	1.90	ref	ref	78	2.56	ref	ref	68	2.23	ref	ref
≥25	8,169	657	8.04	1.66	(1.17,1.70)	653	7.99	1.15	(0.83,1.16)	250	3.06	1.63	(0.73,1.34)	349	4.27	1.70	(1.03,1.71)	223	2.73	1.23	(0.96,1.29)
Military occupation																					
Health care	787	47	5.97	ref	ref	58	7.37	ref	ref	16	2.03	ref	ref	45	5.72	ref	ref	22	2.80	ref	ref
Other	10,433	763	7.31	1.24	(1.03,1.92)	809	7.75	1.06	(0.85,1.50)	292	2.80	1.39	(0.88,2.52)	382	3.66	0.63	(0.52,0.99)	269	2.58	0.92	(1.02,1.63)
Marital status																					
Married	4,730	358	7.57	ref	ref	406	8.58	ref	ref	219	4.63	ref	ref	202	4.27	ref	ref	120	2.54	ref	ref
Other/unk	6,490	452	6.96	0.91	(0.85,1.15)	461	7.10	0.81	(0.78,1.03)	89	1.37	0.29	(0.30,0.50)	225	3.47	0.81	(0.74,1.10)	171	2.63	1.04	(1.11,1.43)
Service																					
Army	3,741	335	8.95	ref	ref	334	8.93	ref	ref	145	3.88	ref	ref	174	4.65	ref	ref	173	4.62	ref	ref
Navy	2,088	95	4.55	0.48	(0.52,0.90)	115	5.51	0.59	(0.56,0.93)	49	2.35	0.60	(0.81,1.82)	37	1.77	0.37	(0.30,0.67)	52	2.49	0.53	(0.87,1.27)
Air Force	4,963	356	7.17	0.79	(0.88,1.33)	395	7.96	0.88	(0.80,1.19)	103	2.08	0.53	(0.74,1.51)	211	4.25	0.91	(0.77,1.33)	57	1.15	0.24	(0.50,0.74)
Marine Corps	423	24	5.67	0.61	(0.47,1.17)	23	5.44	0.59	(0.45,1.13)	11	2.60	0.66	(0.69,2.67)	4	0.95	0.20	(0.10,0.72)	9	2.13	0.45	(0.95,1.97)
Dwell time																					
<180 days	2,108	139	6.59	ref	ref	141	6.69	ref	ref	31	1.47	ref	ref	69	3.27	ref	ref	46	2.18	ref	ref
≥180 days	9,112	671	7.36	1.13	(0.76,1.14)	726	7.97	1.21	(0.86,1.28)	277	3.04	2.10	(1.00,2.23)	358	3.93	1.21	(0.79,1.38)	245	2.69	1.24	(1.01,1.44)
History of condition																					
Ever prior diag	Varies by condition	409	13.16	2.92	(2.34,3.15)	465	13.25	2.78	(2.33,3.09)	135	18.19	13.25	(8.32,13.78)	138	10.62	3.96	(2.87,4.42)	154	19.15	17.78	(14.91,19.21)
Never prior diag		401	4.94	ref	ref	402	5.21	ref	ref	173	1.65	ref	ref	289	2.91	ref	ref	137	1.32	ref	ref
Deployment length																					
<4 mos	2,697	150	5.56	ref	ref	175	6.49	ref	ref	50	1.85	ref	ref	85	3.15	ref	ref	53	1.97	ref	ref
4-6 mos	3,358	226	6.73	1.23	(1.00,1.56)	252	7.50	1.17	(0.90,1.37)	64	1.91	1.03	(0.58,1.28)	131	3.90	1.25	(0.96,1.72)	60	1.79	0.91	(1.13,1.69)
6-9 mos	2,489	186	7.47	1.37	(1.13,1.80)	195	7.83	1.23	(0.97,1.51)	68	2.73	1.49	(0.87,1.91)	86	3.46	1.1	(0.92,1.74)	50	2.01	1.02	(0.99,1.51)
9-12 mos	1,120	109	9.73	1.83	(1.21,2.20)	116	10.36	1.67	(1.12,2.00)	55	4.91	2.73	(1.34,3.43)	49	4.38	1.41	(0.82,1.89)	50	4.46	2.33	(1.36,2.16)
>12 mos	1,556	139	8.93	1.67	(1.11,1.95)	129	8.29	1.3	(0.91,1.58)	71	4.56	2.53	(1.41,3.41)	76	4.88	1.58	(1.00,2.10)	78	5.01	2.63	(1.65,2.53)