

Zamorski MA, Rusu C, Garber BG. Prevalence and correlates of mental health problems in Canadian Forces personnel who deployed in support of the mission in Afghanistan: findings from postdeployment screenings, 2009–2012. *Can J Psychiatry*. 2014;59(6):319–326.

Table 3: Risk Factors for Any of Six Post-deployment Mental Health Problems (Overall N = 16193)

Variable		Any of six mental health problems present					Unadjusted OR (95% CI) ^d	p value for unadjusted OR	Adjusted OR (95% CI) ^e	P value for adjusted OR
		No		Yes		Total				
		Count	%	Count	%	Count				
Factors acting across the deployment cycle										
Sex	Male	12822	90.2%	1400	9.8%	14222	-- ^f	--	--	--
	Female	1244	86.1%	201	13.9%	1445	1.48 (1.26 – 1.73)	<0.001	1.25 (1.03 – 1.51)	0.024
	Total	14066	89.8%	1601	10.2%	15667				
Age at time of questionnaire	24 years or less	2799	91.2%	270	8.8%	3069	0.85 (0.74 – 0.99)	0.034	0.89 (0.75 – 1.035)	0.174
	25 to 35 years	6177	89.8%	700	10.2%	6877	--	--	--	--
	35 to 44 years	3471	88.7%	440	11.3%	3911	1.12 (0.99 – 1.27)	0.077	1.20 (1.02 – 1.40)	0.027
	45 years or more	1611	89.3%	192	10.7%	1803	1.05 (0.89 – 1.25)	0.544	1.53 (1.23 – 1.90)	0.001
	Total	14058	89.8%	1602	10.2%	15660				
Language	English	10169	88.6%	1304	11.4%	11473	--	--	--	--
	French	3776	92.9%	288	7.1%	4064	0.60 (0.52 – 0.68)	<0.001	0.63 (0.54 – 0.74)	<0.001
	Other	74	94.9%	4	5.1%	78	0.42 (0.15 – 1.15)	0.093	0.57 (0.20 – 1.65)	0.302
	Total	14019	89.8%	1596	10.2%	15615				

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Marital status	Married or living with partner	7786	89.8%	881	10.2%	8667	--	--	--	--
	Single (never married)	5280	90.9%	526	9.1%	5806	0.88 (0.79 – 0.99)	0.027	1.00 (0.87 – 1.16)	0.955
	Widowed, divorced, or separated	1000	83.7%	194	16.3%	1194	1.71 (1.45 – 2.03)	<0.001	1.25 (1.03 – 1.52)	0.022
	Total	14066	89.8%	1601	10.0%	15667				
Component	Regular Force	11985	89.5%	1401	10.5%	13386	--	--	--	--
	Reserve Force	2083	91.2%	201	8.8%	2284	0.83 (0.71 – 0.96)	0.015	0.94 (0.79 – 1.12)	0.491
	Total	14068	89.8%	1602	10.2%	15670				
Element	Army	11139	89.4%	1325	10.6%	12464	--	--	--	--
	Navy	829	90.3%	89	9.7%	918	0.90 (0.72 – 1.13)	0.378	1.04 (0.80 – 1.35)	0.791
	Air Force	2074	91.8%	186	8.2%	2260	0.75 (0.64 – 0.89)	0.0006	0.82 (0.67 – 0.99)	0.036
	Total	14042	89.8%	1600	10.2%	15642				
Rank	Officer	2116	94.0%	136	6.0%	2252	0.53 (0.44 – 0.63)	<0.001	0.54 (0.44 – 0.67)	<0.001
	Senior non-commissioned member	2453	88.8%	309	11.2%	2762	1.03 (0.91 – 1.18)	0.613	0.85 (0.72 – 1.01)	0.069
	Junior non-commissioned member	9484	89.1%	1156	10.9%	10640	--	--	--	--
	Total	14053	89.8%	1601	10.2%	15654				
Years of military	5 years or less	4614	90.3%	497	9.7%	5111	--	--		

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service	6 to 15 years	5443	89.8%	620	10.2%	6063	1.06 (0.93 – 1.20)	0.375		
	16 years or more	4011	89.2%	485	10.8%	4496	1.12 (0.98 – 1.28)	0.085		
	Total	14068	89.8%	1602	10.2%	15670				
Pre-deployment factors										
Number of previous deployments	None	6577	89.8%	747	10.2%	7324	--	--		
	One or two	4380	90.3%	468	9.7%	4848	0.94 (0.83 – 1.06)	0.298		
	Three or more	2985	89.0%	370	11.0%	3355	1.09 (0.95 – 1.24)	0.209		
	Total	13942	90.2%	1585	9.8%	15527				
Mental health care history	Never	11528	94.1%	722	5.9%	12250	--	--	--	--
	Past care only	1711	84.4%	315	15.6%	2026	2.90 (2.51 – 3.33)	<0.001	2.89 (2.49 – 3.35)	<0.001
	Current care	644	54.3%	542	45.7%	1186	13.23 (11.55 – 15.16)	<0.001	12.52 (10.82 – 14.49)	<0.001
	Total	13883	89.8%	1579	10.2%	15462				
Intra-deployment factors										
Deployment length	Less than 2 months	290	90.9%	29	9.1%	319	0.88 (0.60 – 1.30)	0.532		
	2 to 5 months	1709	89.6%	198	10.4%	1907	1.02 (0.87 – 1.20)	0.767		
	6 to 8 months	10995	89.8%	1242	10.2%	12237	--	--		
	9 months or more	1065	89.1%	130	10.9%	1195	1.08 (0.89 – 1.31)	0.436		
	Total	14059	89.8%	1599	10.2%	15658				
Combat exposure	First	4121	93.6%	280	6.4%	4401	--	--	--	--

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tertile	Second	5612	90.4%	597	9.6%	6209	1.47 (1.28 – 1.70)	<0.001	1.59 (1.35 – 1.87)	<0.001
	Third	4192	85.7%	697	14.3%	4886	2.30 (2.00 – 2.65)	<0.001	2.57 (2.16 – 3.06)	<0.001
	Total	13925	89.8%	1574	10.2%	15499				
Post-deployment factor										
Lag time between return from deployment and questionnaire completion	Less than 90 days	1916	92.6%	152	7.4%	2068	0.65 (0.54 – 0.77)	<0.001	0.75 (0.62 – 0.92)	0.005
	Between 90 and 180 days	8116	89.1%	997	10.9%	9113	--	--	--	--
	Between 181 and 365 days	3121	89.9%	351	10.1%	3472	0.92 (0.81 – 1.04)	0.180	0.88 (0.77 – 1.02)	0.095
	366 days or more	716	90.2%	78	9.8%	794	0.89 (0.70 – 1.13)	0.335	0.87 (0.67 – 1.15)	0.329
	Total	13869	89.8%	1578	10.2%	15447				

a. Sergeant or equivalent and above

b. Master Corporal and equivalent or below

c. Tertiles were determined with respect to a larger reference population, accounting for the unequal distribution.

d. OR = odds ratio; CI = confidence interval; **bold** indicates statistically significant findings ($p < 0.05$)

e. OR = odds ratio; CI = confidence interval; OR is adjusted for sex, age, language, marital status, component, element, rank, combat exposure, lag time between return from deployment and questionnaire completion, and mental health care history; **bold** indicates statistically significant findings ($p < 0.05$)

f. -- indicates reference category