## Deployment Health Assessments

U.S. Armed Forces

January 2012

(Data through December 2011)

Armed Forces Health Surveillance Center

Report Date: January 08, 2012

## Update: Deployment Health Assessments, U.S. Armed Forces, December 2011

Since January 2003, peaks and troughs in the numbers of pre- and post-deployment health assessment forms transmitted to the Armed Forces Health Surveillance Center generally corresponded to times of departure and return of large numbers of deployers. Between April 2006 and December 2011, the number of post-deployment reassessment (PDHRA) forms per month ranged from 15,309 to 36,845 (Table 1, Figure 1).

During the past 12 months, the proportions of returned deployers who rated their health as "fair" or "poor" were 8-10% on post-deployment health assessment questionnaires and 10-13% on PDHRA questionnaires (Figure 2).

In general, on post-deployment assessments and reassessments, deployers in the Marine Corps and in reserve components were more likely than their respective counterparts to report health and exposure-related concerns (Table 2, Figure 3). With the exception of Army and Air Force active component members, both active and reserve component members were more likely to report exposure concerns three to six months after, compared to the time of return from deployment (Table 2).

At the time of return from deployment, soldiers serving in the active component of the Army were the most likely of all deployers to receive mental health referrals; however, three to six months after returning, reservists were more likely than active component service members to receive mental health referrals (Table 2).

Finally, during the past three years, reserve component members have been more likely than active component service members to report "exposure concerns" on postdeployment assessments and reassessments (Figure 3).

**Table 1.** Deployment-related health assessment forms, by month, U.S. Armed Forces, January 2011-December 2011

assessi	ment	assessm	nent	Post-deployment reassessment DD2900			
No. %		No.	%	No.	%		
387,938	100	380,698	100	295,855	100		
42,524	11.0	24,941	6.6	28,619	9.7		
33,864	8.7	25,605	6.7	26,384	8.9		
37,891	9.8	33,136	8.7	29,056	9.8		
39,295	10.1	35,013	9.2	24,820	8.4		
34,254	8.8	30,573	8.0	21,436	7.2		
33,364	8.6	27,786	7.3	21,861	7.4		
27,746	7.2	29,167	7.7	23,654	8.0		
33,161	8.5	30,696	8.1	26,068	8.8		
31,615	8.1	33,707	8.9	24,009	8.1		
30,037	7.7	35,199	9.2	27,384	9.3		
24,949	6.4	37,648	9.9	23,334	7.9		
19,238	5.0	37,227	9.8	19,230	6.5		
	assessi DD27 No. 387,938 42,524 33,864 37,891 39,295 34,254 33,364 27,746 33,161 31,615 30,037 24,949	387,938 100  42,524 11.0 33,864 8.7 37,891 9.8 39,295 10.1 34,254 8.8 33,364 8.6 27,746 7.2 33,161 8.5 31,615 8.1 30,037 7.7 24,949 6.4	assessment DD2795         assessment DD2795           No.         %         No.           387,938         100         380,698           42,524         11.0         24,941           33,864         8.7         25,605           37,891         9.8         33,136           39,295         10.1         35,013           34,254         8.8         30,573           33,364         8.6         27,786           27,746         7.2         29,167           33,161         8.5         30,696           31,615         8.1         33,707           30,037         7.7         35,199           24,949         6.4         37,648	Assessment DD2795         assessment DD2796           No.         %         No.         %           387,938         100         380,698         100           42,524         11.0         24,941         6.6           33,864         8.7         25,605         6.7           37,891         9.8         33,136         8.7           39,295         10.1         35,013         9.2           34,254         8.8         30,573         8.0           33,364         8.6         27,786         7.3           27,746         7.2         29,167         7.7           33,161         8.5         30,696         8.1           31,615         8.1         33,707         8.9           30,037         7.7         35,199         9.2           24,949         6.4         37,648         9.9	assessment DD2795         assessment DD2796         reassess DD290           No.         %         No.         %         No.           387,938         100         380,698         100         295,855           42,524         11.0         24,941         6.6         28,619           33,864         8.7         25,605         6.7         26,384           37,891         9.8         33,136         8.7         29,056           39,295         10.1         35,013         9.2         24,820           34,254         8.8         30,573         8.0         21,436           33,364         8.6         27,786         7.3         21,861           27,746         7.2         29,167         7.7         23,654           33,161         8.5         30,696         8.1         26,068           31,615         8.1         33,707         8.9         24,009           30,037         7.7         35,199         9.2         27,384           24,949         6.4         37,648         9.9         23,334		

**Figure 2.** Proportion of deployment health assessment forms with self-assessed health status as "fair" or "poor", U.S. Armed Forces, January 2011-December 2011

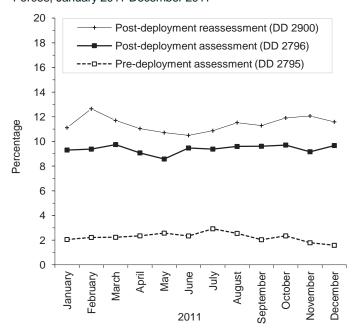
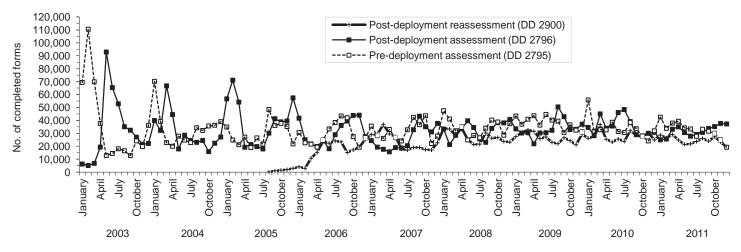


Figure 1. Total deployment health assessment and reassessment forms, by month, U.S. Armed Forces, January 2003-December 2011



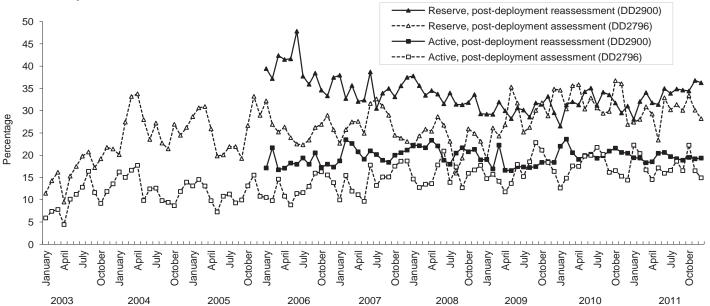
**Data Source: Defense Medical Surveillance System** 

**Table 2.** Percentage of service members who endorsed selected questions/received referrals on health assessment forms, U.S. Armed Forces, January 2011-December 2011

		Army			Navy			Air For	се	N	larine C	orps	All s	ervice m	embers
	Pre- deploy DD2795	Post- deploy DD2796	Reassessmt DD2900	Pre- deploy DD2795	aepioy	Reassessmt DD2900	Pre- deploy DD2795	Post- deploy DD2796	Reassessmt DD2900	deploy	Post- deploy DD2796	Reassessmt DD2900	Pre- deploy DD2795	Post- deploy DD2796	Reassessmt DD2900
Active component	n= 138,512 %	n= 2 134,099 %	n= 117,868 %	n= 16,802 %	n= 18,997 %	n= 18,910 %	n= 60,397 %	n= 55,259 %	n= 47,781 %	n= 38,209 %	n= 37,187 %	n= 33,185 %	n= 253,920 %	n= 245,542 %	n= 217,744 %
General health "fair" or "poor"	3.9	10.9	13.7	1.3	4.4	6.2	0.7	3.4	4.0	1.4	8.3	10.6	2.6	8.3	10.4
Health concerns, not wound or injury	14.7	25.2	24.0	3.2	12.1	14.6	2.7	7.1	11.3	2.8	13.9	22.0	9.3	18.4	20.1
Health worse now than before deployed	na	23.5	25.4	na	10.5	13.3	na	8.7	8.9	na	19.0	22.1	na	18.5	20.2
Exposure concerns	na	17.9	17.8	na	16.9	23.2	na	14.8	14.7	na	19.7	29.3	na	17.4	19.4
PTSD symptoms (2 or more)	na	11.7	12.7	na	5.0	8.5	na	2.7	2.9	na	8.5	13.2	na	8.7	10.3
Depression symptoms (any)	na	29.5	30.5	na	20.0	26.3	na	12.2	13.8	na	27.6	33.8	na	24.6	27.0
Referral indicated by provider (any)	5.4	39.0	26.8	3.1	19.0	16.7	1.9	17.9	8.7	2.5	25.2	23.5	4.0	30.6	21.4
Mental health referral indicated <sup>a</sup>	1.7	10.2	12.1	0.5	2.3	6.2	0.5	2.3	3.0	0.2	2.8	7.1	1.1	6.7	8.8
Medical visit following referral <sup>b</sup>	98.4	99.4	97.6	92.4	85.8	92.1	99.0	98.7	99.7	53.4	83.9	91.4	93.8	96.3	96.2
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siour voic rollowing rolloridi	00.1	Army		02.1	Navy	02	00.0	Air For	се	N	larine C	orps	All s	ervice m	embers
	Pre- deploy DD2795	Army Post-deploy		Pre- deploy DD2795	Navy	Reassessmt DD2900	Pro	Post- deploy DD2796	Reassessmi	Pre- deploy	Poet-	Reassessmt DD2900	Pre- deploy DD2795	Post- deploy DD2796	embers  Reassessmt DD2900
	Pre- deploy DD2795	Post- deploy DD2796	Reassessmt DD2900	Pre- deploy DD2795	Navy Post- deploy DD2796 n=	Reassessmt DD2900	Pre- deploy DD2795	Post- deploy DD2796	Reassessmi DD2900	Pre- deploy DD2795	Post- deploy DD2796	Reassessmt DD2900	Pre- deploy DD2795	Post- deploy DD2796	Reassessmt DD2900
Reserve component	Pre- deploy DD2795	Army Post- deploy DD2796	Reassessmt DD2900	Pre- deploy DD2795	Navy Post- deploy DD2796	Reassessmt DD2900	Pre- deploy DD2795	Post- deploy DD2796	Reassessmt DD2900	Pre- deploy DD2795	Post- deploy DD2796	Reassessmt DD2900	Pre- deploy DD2795	Post- deploy DD2796	Reassessmt DD2900
	Pre- deploy DD2795 n= 56,691	Post-deploy DD2796 n= 58,158	Reassessmt DD2900  n= 51,276	Predeploy DD2795 n= 3,830	Navy Post-deploy DD2796 n= 5,069	Reassessmt DD2900 n= 7,046	Predeploy DD2795 n= 15,046	Post- deploy DD2796 n= 12,559	Reassessmi DD2900 n= 13,870	Predeploy DD2795 n= 2,428	Post- deploy DD2796 n= 3,709	Reassessmt DD2900 n= 2,663	Predeploy DD2795 n= 77,995	Post- deploy DD2796 n= 79,495	Reassessmt DD2900 n= 74,855
Reserve component	Predeploy DD2795 n= 56,691 %	Army Post-deploy DD2796 n= 58,158 %	Reassessmt DD2900  n= 51,276 %	Predeploy DD2795 n= 3,830 %	Post-deploy DD2796 n= 5,069 %	Reassessmt DD2900 n= 7,046 %	Predeploy DD2795 n= 15,046 %	Post-deploy DD2796 n= 12,559	Reassessmt DD2900 n= 13,870 %	Predeploy DD2795 n= 2,428 %	Post-deploy DD2796 n= 3,709 %	Reassessmt DD2900 n= 2,663 %	Predeploy DD2795 n= 77,995 %	Post- deploy DD2796 n= 79,495 %	Reassessmt DD2900 n= 74,855 %
Reserve component  General health "fair" or "poor"  Health concerns, not wound or	Pre- deploy DD2795 n= 56,691 %	Post-deploy DD2796  n= 58,158 % 11.6	Reassessmt DD2900 n= 51,276 % 16.4	Pre- deploy DD2795 n= 3,830 %	Navy Post-deploy DD2796 n= 5,069 % 7.8	Reassessmt DD2900 n= 7,046 % 9.2	Pre- deploy DD2795 n= 15,046 % 0.3	Post-deploy DD2796 n= 12,559 % 5.5	Reassessmt DD2900  n= 13,870 % 5.8	Pre- deploy DD2795 n= 2,428 % 0.8	Post-deploy DD2796 n= 3,709 % 14.9	Reassessmt DD2900  n= 2,663 % 13.3	Pre- deploy DD2795 n= 77,995 % 0.8	Post-deploy DD2796 n= 79,495 %	Reassessmt DD2900  n= 74,855 % 13.6
Reserve component  General health "fair" or "poor"  Health concerns, not wound or injury  Health worse now than before	Pre- deploy DD2795 n= 56,691 % 0.9	Post-deploy DD2796 n= 58,158 % 11.6 35.9	Reassessmt DD2900  n= 51,276 %  16.4  43.0	Pre- deploy DD2795 n= 3,830 % 0.3	Post-deploy DD2796  n= 5,069 % 7.8	Reassessmt DD2900 n= 7,046 % 9.2 34.6	Pre- deploy DD2795 n= 15,046 % 0.3	Post-deploy DD2796 n= 12,559 % 5.5 9.5	Reassessmt DD2900  n= 13,870 % 5.8 17.8	Predeploy DD2795 n= 2,428 % 0.8 3.0	Post- deploy DD2796 n= 3,709 % 14.9 38.2	Reassessmt DD2900  n= 2,663 % 13.3 43.5	Pre- deploy DD2795 n= 77,995 % 0.8 10.7	Post-deploy DD2796 n= 79,495 % 10.6 31.3	Reassessmt DD2900  n= 74,855 %  13.6 37.5
Reserve component  General health "fair" or "poor"  Health concerns, not wound or injury  Health worse now than before deployed	Pre- deploy DD2795  n= 56,691 % 0.9  14.3	Post-deploy DD2796 n= 58,158 % 11.6 35.9 26.3	Reassessmt DD2900  n= 51,276 %  16.4  43.0  32.0	Pre- deploy DD2795 n= 3,830 % 0.3 1.6	Navy Post-deploy DD2796 n= 5,069 % 7.8 27.8	Reassessmt DD2900 n= 7,046 % 9.2 34.6 22.5	Pre- deploy DD2795 n= 15,046 % 0.3 0.8	Post-deploy DD2796 n= 12,559 % 5.5 9.5	Reassessmin DD2900 n= 13,870 % 5.8 17.8	Pre- deploy DD2795 n= 2,428 % 0.8 3.0	Post-deploy DD2796 n= 3,709 % 14.9 38.2 34.2	Reassessmt DD2900  n= 2,663 % 13.3 43.5 31.9	Pre- deploy DD2795 n= 77,995 % 0.8 10.7 na	Post-deploy DD2796  n= 79,495 % 10.6 31.3 24.4	Reassessmt DD2900  n= 74,855 %  13.6 37.5  27.5
Reserve component  General health "fair" or "poor" Health concerns, not wound or injury Health worse now than before deployed Exposure concerns PTSD symptoms (2 or more) Depression symptoms (any)	Pre-deploy DD2795  n= 56,691 % 0.9  14.3 na na	Army Post-deploy DD2796 n= 58,158 % 11.6 35.9 26.3 31.0	Reassessmt DD2900  n= 51,276 %  16.4  43.0  32.0  35.5	Predeploy DD2795 n= 3,830 % 0.3 1.6 na	Navy Post-deploy DD2796 n= 5,069 % 7.8 27.8 21.1 38.9	Reassessmt DD2900 n= 7,046 % 9.2 34.6 22.5 40.2	Pre- deploy DD2795 n= 15,046 % 0.3 0.8 na na	Post-deploy DD2796  n= 12,559 % 5.5 9.5 14.0	Reassessmin DD2900 n= 13,870 % 5.8 17.8 12.6 22.1	Pre- deploy DD2795  n= 2,428 %  0.8  3.0  na	Post-deploy DD2796 n= 3,709 % 14.9 38.2 34.2	Reassessmt DD2900  n= 2,663 % 13.3 43.5 31.9 35.7	Pre-deploy DD2795 n= 77,995 % 0.8 10.7 na na	Post-deploy DD2796 n= 79,495 % 10.6 31.3 24.4 29.6	Reassessmt DD2900  n= 74,855 %  13.6 37.5 27.5 33.4
Reserve component  General health "fair" or "poor" Health concerns, not wound or injury Health worse now than before deployed Exposure concerns PTSD symptoms (2 or more)	Pre- deploy DD2795  n= 56,691 % 0.9 14.3 na na	Army Post-deploy DD2796 n= 58,158 % 11.6 35.9 26.3 31.0 10.4	Reassessmt DD2900  n= 51,276 %  16.4  43.0  32.0  35.5  19.9	Pre- deploy DD2795  n= 3,830 %  0.3  1.6  na  na	Navy Post-deploy D02796 n= 5,069 % 7.8 27.8 21.1 38.9 7.6	Reassessmt DD2900  n= 7,046 % 9.2 34.6 22.5 40.2 13.8	Pre- deploy DD2795 n= 15,046 % 0.3 0.8 na na	Post-deploy DD2796  n= 12,559 % 5.5 9.5 14.0 19.5 3.5	Reassessmt DD2900  n= 13,870 % 5.8 17.8 12.6 22.1 3.9	Pre- deploy DD2795  n= 2,428 %  0.8  3.0  na  na	Post-deploy DD2796 n= 3,709 % 14.9 38.2 34.2 30.2 12.5	Reassessmt DD2900 n= 2,663 % 13.3 43.5 31.9 35.7 23.3	Pre-deploy DD2795 n= 77,995 % 0.8 10.7 na na	Post-deploy DD2796  n= 79,495 % 10.6 31.3 24.4 29.6 9.2	Reassessmt DD2900  n= 74,855 % 13.6 37.5 27.5 33.4 16.4
Reserve component  General health "fair" or "poor"  Health concerns, not wound or injury  Health worse now than before deployed  Exposure concerns  PTSD symptoms (2 or more)  Depression symptoms (any)  Referral indicated by provider	Pre-deploy DD2795  n= 56,691 % 0.9 14.3 na na na	Army Post-deploy DD2796 n= 58,158 % 11.6 35.9 26.3 31.0 10.4 27.8	Reassessmt DD2900  n= 51,276 %  16.4  43.0  32.0  35.5  19.9  33.3	Pre- deploy DD2795  n= 3,830 %  0.3  1.6  na  na  na	Navy Post-deploy DD2796  n= 5,069 % 7.8  27.8  21.1  38.9  7.6  25.8	Reassessmt DD2900  n= 7,046 % 9.2 34.6 22.5 40.2 13.8 29.0	Pre- deploy DD2795 n= 15,046 % 0.3 0.8 na na na	Post-deploy DD2796  n= 12,559 % 5.5 9.5 14.0 19.5 3.5 14.2	Reassessmin DD2900 n= 13,870 % 5.8 17.8 12.6 22.1 3.9 15.5	Predeploy DD2795  n= 2,428 %  0.8  3.0  na  na  na	Post-deploy DD2796 n= 3,709 % 14.9 38.2 34.2 30.2 12.5 37.7	Reassessmt DD2900  n= 2,663 % 13.3 43.5 31.9 35.7 23.3 35.0	Predeploy DD2795 n= 77,995 % 0.8 10.7 na na na	Post-deploy DD2796 n= 79,495 % 10.6 31.3 24.4 29.6 9.2 26.0	Reassessmt DD2900  n= 74,855 %  13.6 37.5  27.5 33.4 16.4 29.7

<sup>&</sup>lt;sup>a</sup>Includes behavioral health, combat stress and substance abuse referrals.

**Figure 3.** Proportion of service members who endorsed exposure concerns on post-deployment health assessments, U.S. Armed Forces, January 2003-December 2011



**Data Source: Defense Medical Surveillance System** 

<sup>&</sup>lt;sup>b</sup>Record of inpatient or outpatient visit within 6 months after referral.