



The Middle East Area of Operations (MEAO) Health Study:

Prospective Study Report Volume Three

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Veterans' Health**

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Appendix L

Chapter Five

Chapter Five- Psychological Distress

Table 5.1: Comparison between mean K10 scores at pre-deployment for respondents completing only pre-deployment and respondents completing both pre- and post-deployment

Characteristics	Sub groups	Pre Deployment N	Pre Deployment Mean at Pre	Pre Post Deployment N	Pre Post Deployment Mean at Pre	Difference
						Mean (CI)
Total Sample		533	13.8	1257	13.2	-0.6 (-1.1, -0.2)
Gender	Female	43	14.6	121	13.9	-0.7 (-2.3, 0.9)
	Male	490	13.7	1136	13.1	-0.6 (-1.1, -0.2)
Age	16-24	199	15.0	376	13.4	-1.6 (-2.5, -0.7)
	25-34	254	13.3	498	13.4	0.1 (-0.6, 0.7)
	35-44	69	12.4	260	12.7	0.3 (-0.6, 1.3)
	45-54	11	13.6	105	12.5	-1.1 (-3.3, 1.2)
Service	Navy	32	15.7	65	13.4	-2.3 (-4.4, -0.2)
	Army	388	13.9	873	13.2	-0.7 (-1.2, -0.1)
	Air Force	113	13.0	319	12.9	-0.1 (-0.9, 0.7)
Rank	Officer	63	13.0	235	12.9	-0.1 (-1.2, 1.0)
	NCO	212	13.2	499	13.1	-0.1 (-0.7, 0.6)
	Other ranks	258	14.5	523	13.3	-1.2 (-1.9, -0.5)
Duty	Regular	452	13.9	1222	13.2	-0.7 (-1.2, -0.3)
	Reservist	79	12.9	35	12.7	-0.2 (-1.9, 1.5)
Prior	No Prior Deployments	177	14.9	409	13.3	-1.6 (-2.4, -0.8)

Deployments	1 - 2 Prior Deployments	177	13.1	412	13.0	-0.1 (-0.9, 0.6)
	3 - 4 Prior Deployments	60	13.6	161	13.1	-0.5 (-1.9, 0.8)
	5+ Prior Deployments	64	12.3	155	12.8	0.5 (-0.6, 1.6)
	Missing No Prior Deployments	55	14.3	120	13.6	-0.7 (-2.2, 0.7)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 5.2: Change in mean K10 Scores for respondents completing the K10 measure at both time points

Characteristics	Sub groups	Pre-Post Deployment	Pre Deployment	Post Deployment	Change
		N	Mean	Mean	mean (CI)
Total Sample		1257	13.2	13.9	0.7 (0.5, 1.0)
Gender	Female	121	13.9	14.5	0.6 (-0.3, 1.5)
	Male	1136	13.1	13.9	0.8 (0.5, 1.1)
Age	16-24	376	13.4	13.8	0.4 (-0.1, 0.9)
	25-34	498	13.4	14.0	0.7 (0.2, 1.1)
	35-44	260	12.7	14.1	1.4 (0.7, 2.0)
	45-54	105	12.5	13.3	0.8 (-0.2, 1.7)
	55 and over	18	12.6	14.5	1.9 (-0.1, 3.8)
Service	Navy	65	13.4	13.3	-0.1 (-1.4, 1.2)
	Army	873	13.2	14.1	0.9 (0.5, 1.2)
	Air Force	319	12.9	13.5	0.6 (0.1, 1.1)
Rank	Officer	235	12.9	13.6	0.7 (0.1, 1.3)
	NCO	499	13.1	13.8	0.7 (0.2, 1.1)
	Other ranks	523	13.3	14.1	0.8 (0.4, 1.3)

Locations	In country	937	13.2	14.1	0.9 (0.6, 1.3)
	Out country	320	13.2	13.4	0.2 (-0.3, 0.7)
Roles	Combat Afghan & Outside MSB	644	13.1	14.3	1.2 (0.7, 1.6)
	Inside MSB	289	13.3	13.8	0.5 (-0.1, 1.0)
	Outside Afghan	324	13.1	13.3	0.2 (-0.3, 0.7)
Duty	Regular	1222	13.2	13.9	0.7 (0.4, 1.0)
	Reservist	35	12.7	15.5	2.8 (1.0, 4.5)
Prior Deployments	No Prior Deployments	409	13.3	13.9	0.6 (0.0, 1.0)
	1 - 2 Prior Deployments	412	13.0	13.9	0.9 (0.4, 1.4)
	3 - 4 Prior Deployments	161	13.1	13.7	0.6 (-0.2, 1.3)
	5+ Prior Deployments	155	12.8	13.5	0.7 (-0.1, 1.5)
	Missing Prior Deployments	120	13.6	14.9	1.3 (0.3, 2.4)

Table 5.4: Percentage of participants in each K10 band at pre- and post-deployment, for those who completed the K10 measure at both time points

Characteristics	Sub groups	Total N	Pre-Deployment			Post-Deployment		
			Low %	Moderate %	High %	Low %	Moderate %	High %
Total Sample		1257	75.6%	16.5%	7.9%	70.7%	17.8%	11.5%
Gender	Female	121	68.6%	19.0%	12.4%	61.2%	25.6%	13.2%
	Male	1136	76.3%	16.2%	7.5%	71.6%	17.0%	11.4%
Age	16-24	376	72.6%	18.9%	8.5%	71.8%	16.5%	11.7%
	25-34	498	74.3%	16.7%	9.0%	69.1%	19.3%	11.6%
	35-44	260	81.1%	12.7%	6.2%	70.8%	16.9%	12.3%

	45-54	105	79.1%	15.2%	5.7%	74.3%	17.1%	8.6%
	55 and over	18	72.2%	22.2%	5.6%	66.7%	22.2%	11.1%
Service	Navy	65	66.1%	26.2%	7.7%	75.4%	13.8%	10.8%
	Army	873	75.0%	16.7%	8.3%	69.9%	17.7%	12.4%
	Air Force	319	79.0%	13.8%	7.2%	71.8%	18.8%	9.4%
Rank	Com Officer	235	79.2%	14.0%	6.8%	75.7%	16.2%	8.1%
	NCO	499	75.2%	16.6%	8.2%	70.0%	18.4%	11.6%
	Other ranks	523	74.4%	17.4%	8.2%	69.0%	18.0%	13.0%
Locations	In country	937	74.9%	17.0%	8.1%	69.9%	17.4%	12.7%
	Out country	320	77.5%	15.0%	7.5%	72.8%	19.1%	8.1%
Roles	Combat Afghan & Outside MSB	644	76.1%	16.0%	7.9%	69.7%	16.6%	13.7%
	Inside MSB	289	72.3%	19.0%	8.7%	69.9%	19.4%	10.7%
	Outside Afghan	324	77.5%	15.1%	7.4%	73.2%	18.8%	8.0%
Duty	Regular	1222	75.4%	16.4%	8.2%	70.9%	17.7%	11.4%
	Reservist	35	82.9%	17.1%	0.0%	62.9%	20.0%	17.1%
Prior Deployments	No Prior Deployments	409	72.6%	19.6%	7.8%	70.2%	19.8%	10.0%
	1 - 2 Prior Deployments	412	77.4%	13.8%	8.8%	72.1%	14.3%	13.6%
	3 - 4 Prior Deployments	161	76.4%	16.8%	6.8%	72.7%	16.8%	10.5%
	5+ Prior Deployments	155	80.0%	12.3%	7.7%	72.3%	18.7%	9.0%
	Missing	120	72.5%	20.0%	7.5%	62.5%	23.3%	14.2%

Table 5.5: Change in K10 Bands for respondents completing the K10 measure at both time points

Characteristics	Sub groups	Total N	Change				
			No Change %	Increasing symptom		Decreasing symptom	
				One Step %	Two Steps %	One Step %	Two Steps %
Total Sample		1257	69.0%	13.8%	4.8%	9.9%	2.5%
Gender	Female	121	66.9%	16.5%	4.2%	8.3%	4.1%
	Male	1136	69.2%	13.6%	4.8%	10.1%	2.3%
Age	16-24	376	67.8%	13.8%	4.0%	10.9%	3.5%
	25-34	498	69.7%	13.7%	4.2%	10.6%	1.8%
	35-44	260	70.4%	14.2%	6.6%	6.9%	1.9%
	45-54	105	66.7%	15.2%	4.8%	9.5%	3.8%
	55 and over	18	66.7%	5.5%	11.1%	16.7%	0.0%
Service	Navy	65	60.0%	9.2%	6.2%	21.5%	3.1%
	Army	873	68.7%	14.4%	4.7%	9.8%	2.4%
	Air Force	319	71.5%	13.2%	4.7%	8.1%	2.5%
Rank	Officer	235	72.4%	11.5%	3.8%	10.2%	2.1%
	NCO	499	69.8%	13.8%	4.6%	9.2%	2.6%
	Other ranks	523	66.7%	14.9%	5.4%	10.5%	2.5%
Locations	In country	937	68.8%	14.0%	5.0%	9.9%	2.3%
	Out country	320	69.4%	13.4%	4.1%	10.0%	3.1%
Roles	Combat Afghan & Outside MSB	644	68.0%	14.3%	6.1%	9.0%	2.6%
	Inside MSB	289	70.6%	13.5%	2.8%	11.8%	1.3%
	Outside Afghan	324	69.4%	13.3%	4.0%	10.2%	3.1%

Duty	Regular	1222	69.1%	13.7%	4.6%	10.1%	2.5%
	Reservist	35	62.9%	20.0%	11.4%	5.7%	0.0%
Prior Deployments	No Prior Deployments	409	67.2%	14.2%	3.9%	12.0%	2.7%
	1 - 2 Prior Deployments	412	71.1%	12.1%	5.6%	9.2%	2.0%
	3 - 4 Prior Deployments	161	73.3%	9.9%	5.6%	8.7%	2.5%
	5+ Prior Deployments	155	67.7%	16.8%	3.9%	7.7%	3.9%
	Missing	120	63.3%	20.0%	5.0%	10.0%	1.7%

Table 5.7: Mean (95% CI) K10 Score for length of current deployment

Length of current deployment (months)	N	Pre-deployment (95% CI)	Post-deployment (95% CI)	Change (95% CI)
≤5 months	385	13.38 (12.85, 13.91)	13.73 (13.11, 14.35)	0.35 (-0.15, 0.86)
6 or 7 months	387	13.94 (13.36, 14.52)	14.78 (14.12, 15.44)	0.84 (0.33, 1.34)
8 months	273	13.20 (12.54, 13.86)	14.00 (13.24, 14.77)	0.80 (0.20, 1.40)
9-12 months	212	13.32 (12.61, 14.03)	14.61 (13.78, 15.44)	1.29 (0.61, 1.97)

(p=0.17)

Table 5.10: Proportion of participants in each K10 change category by role on most recent deployment.

Role on recent deployment	N	K10 Increase	K10 Decrease	K10 No change
Combat Afghan & Outside MSB	644	18.0%	9.8%	72.2%
Inside MSB	289	15.9%	12.5%	71.6%
Outside Afghan	324	14.5%	11.4%	74.1%

(p=0.2)

Table 5.15: Mean (95% CI) K10 score for total time on prior deployments in previous three years

Total time on prior deployments	N	Pre-deployment (95% CI)	Post-deployment (95% CI)	Change (95% CI)
None	409	13.68 (13.08, 14.27)	14.22 (13.56, 14.89)	0.54 (0.06, 1.03)
1-6 months	220	13.06 (12.33, 13.80)	13.99 (13.15, 14.84)	0.93 (0.27, 1.59)
7-12 months	246	13.53 (12.80, 14.27)	14.18 (13.35, 15.01)	0.65 (0.02, 1.27)
>12 months	58	13.51 (12.32, 14.69)	14.70 (13.27, 16.13)	1.19 (-0.09, 2.47)

(p=0.69)

Table 5.16: Proportion of participants in each K10 change category by total time on prior deployments in previous three years

Total Time on Prior Deployments	N	K10 Increase	K10 Decrease	K10 No change
None	409	17.8%	12.0%	70.2%
1-6 Months	220	14.6 %	8.1%	77.3%
7-12 Months	246	16.3%	11.0%	72.7%
> 12 Months	58	13.8%	12.1%	74.1%

(p=0.7)

Table 5.17: Mean (95% CI) K10 score for number of prior deployments.

Number of prior deployments	N	Pre-deployment (95% CI)	Post-deployment (95% CI)	Change (95% CI)
None	409	13.55 (13.00, 14.10)	14.10 (13.47, 14.72)	0.54 (0.06, 1.03)
1-2 times	412	13.25 (12.67, 13.84)	14.15 (13.50, 14.80)	0.90 (0.42, 1.38)
3-4 times	161	13.46 (12.69, 14.23)	14.04 (13.14, 14.95)	0.58 (-0.18, 1.35)
5+ times	155	13.30 (12.51, 14.09)	13.99 (13.07, 14.92)	0.69 (-0.09, 1.47)

(p=0.77)

Table 5.18: Proportion of participants in each K10 change category by number of prior deployments

Number of Prior Deployments	N	K10 Increase	K10 Decrease	K10 No change
None	409	17.8%	12.0%	70.2%
1-2 Times	412	15.5%	9.5%	75.0%
3-4 Times	161	12.4%	13.0%	74.6%
5+ Times	155	16.1%	9.0%	74.9%

(p=0.6)

Table 5.19: Mean (95% CI) K10 score for previous combat exposures.

Previous combat exposure	N	Pre deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
Yes	178	13.88 (13.12, 14.64)	14.53 (13.65, 15.42)	0.65 (-0.08, 1.38)
No	1043	13.44 (13.00, 13.89)	14.15 (13.67, 14.64)	0.71 (0.40, 1.01)

(p=0.89)

Table 5.20: Proportion of participants in each K10 change category by previous combat exposure

Previous Combat Exposure	N	K10 Increase	K10 Decrease	K10 No change
Yes	178	19.1%	12.9%	68.0%
No	1043	15.9%	10.6%	73.4%

(p=0.2)

Appendix M

Chapter Six

Chapter Six- Depressive Symptoms

Table 6.1: Comparison of PHQ depression severity at pre-deployment between respondents who only completed pre- and those who completed the PHQ-9 measure at both time points.

Characteristics	Sub groups	Pre Deployment N	Pre Post Deployment N	Difference				
				Minimal %	Mild %	Moderate %	Moderate Severe %	Severe %
Total Sample		524	1209	2.7%	-0.6%	-1.8%	0.0%	-0.3%
Gender	Female	42	116	7.8%	-2.4%	-7.1%	1.7%	0.0%
	Male	482	1093	2.3%	-0.5%	-1.4%	-0.1%	-0.3%
Age	16-24	191	356	4.8%	-1.2%	-1.8%	-0.8%	-1.0%
	25-34	249	477	-0.9%	2.4%	-2.4%	0.9%	0.0%
	35-44	73	254	3.1%	-3.9%	0.4%	0.0%	0.4%
	45-54	11	103	3.3%	-3.3%	0.0%	0.0%	0.0%
Service	Navy	31	65	5.3%	7.6%	-12.9%	0.0%	0.0%
	Army	378	840	3.2%	-1.5%	-1.2%	0.1%	-0.6%
	Air Force	115	304	0.3%	0.3%	-0.9%	0.0%	0.3%
Rank	Officer	63	229	-0.4%	1.1%	-1.6%	0.5%	0.4%
	NCO	211	481	2.9%	-0.8%	-2.4%	0.6%	-0.3%
	Other ranks	250	499	3.0%	-0.6%	-1.2%	-0.6%	-0.6%
Duty	Regular	443	1180	3.2%	-1.0%	-2.0%	0.2%	-0.4%
	Reservist	79	29	5.1%	-3.8%	-1.3%	0.0%	0.0%
Prior Deployments	No Prior Deployments	174	385	7.7%	-3.0%	-2.7%	-0.9%	-1.1%
	1 - 2 Prior Deployments	174	411	0.8%	0.0%	-1.3%	0.3%	0.2%
	3 - 4 Prior Deployments	59	151	-4.1%	6.8%	-1.7%	0.7%	-1.7%
	5+ Prior Deployments	64	156	3.6%	-3.3%	-1.6%	1.3%	0.0%
	Missing No. Prior Deployment	53	106	-0.9%	0.0%	-1.0%	0.0%	1.9%

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 6.3: Percentage of participants in each PHQ-9 severity band at pre- and post-deployment, for those who completed the PHQ-9 at both time points

Characteristic s	Sub groups	Pre Post Deploy ment N	at Pre deployment					at Post deployment				
			Minimal %	Mild %	Moderate %	Moderate Severe %	Severe %	Minimal %	Mild %	Moderate %	Moderate Severe %	Severe %
Total Sample		1209	91.2%	7.6%	0.5%	0.4%	0.3%	81.1%	13.9%	2.9%	1.3%	0.8%
Gender	Female	116	88.8%	9.5%	0.0%	1.7%	0.0%	70.7%	23.3%	5.2%	0.8%	0.0%
	Male	1093	91.5%	7.4%	0.5%	0.3%	0.3%	82.1%	12.9%	2.7%	1.4%	0.9%
Age	16-24	356	89.6%	9.3%	0.8%	0.3%	0.0%	82.0%	14.9%	1.7%	0.8%	0.6%
	25-34	477	89.5%	8.8%	0.4%	0.9%	0.4%	81.1%	12.0%	4.0%	2.1%	0.8%
	35-44	254	94.9%	4.3%	0.4%	0.0%	0.4%	78.0%	16.9%	3.1%	0.8%	1.2%
	45-54	103	94.2%	5.8%	0.0%	0.0%	0.0%	83.4%	13.6%	1.0%	1.0%	1.0%
	55 and over	19	100.0%	0.0%	0.0%	0.0%	0.0%	89.5%	5.2%	5.3%	0.0%	0.0%
Service	Navy	65	89.2%	10.8%	0.0%	0.0%	0.0%	87.7%	9.2%	0.0%	3.1%	0.0%
	Army	840	91.0%	7.5%	0.7%	0.6%	0.2%	79.3%	15.0%	3.4%	1.3%	1.0%
	Air Force	304	92.4%	7.3%	0.0%	0.0%	0.3%	84.5%	11.8%	2.0%	1.0%	0.7%
Rank	Officer	229	91.7%	7.4%	0.0%	0.5%	0.4%	82.5%	13.1%	2.6%	0.5%	1.3%
	NCO	481	92.5%	6.3%	0.4%	0.6%	0.2%	81.5%	13.5%	3.1%	1.5%	0.4%
	Other ranks	499	89.8%	9.0%	0.8%	0.2%	0.2%	80.0%	14.6%	2.8%	1.6%	1.0%
Locations	In Country	900	90.8%	7.7%	0.7%	0.5%	0.3%	79.4%	14.7%	3.3%	1.5%	1.1%
	Out Country	309	92.6%	7.4%	0.0%	0.0%	0.0%	85.8%	11.6%	1.6%	1.0%	0.0%
Roles	Combat & Outside MSB	618	90.8%	8.1%	0.6%	0.3%	0.2%	78.6%	14.9%	3.9%	1.8%	0.8%
	Inside MSB	280	90.7%	6.8%	0.7%	1.1%	0.7%	81.1%	14.3%	2.1%	0.7%	1.8%
	Outside Afghan	311	92.6%	7.4%	0.0%	0.0%	0.0%	85.8%	11.6%	1.6%	1.0%	0.0%
Duty	Regular	1180	91.0%	7.8%	0.5%	0.4%	0.3%	81.2%	13.7%	2.9%	1.4%	0.8%
	Reservist	29	100.0%	0.0%	0.0%	0.0%	0.0%	75.9%	20.7%	3.4%	0.0%	0.0%
Prior Deployments	No Prior Deployments	385	92.2%	7.3%	0.2%	0.3%	0.0%	81.8%	15.1%	1.6%	1.0%	0.5%
	1 - 2 Prior Deployments	411	90.5%	8.0%	1.0%	0.3%	0.2%	80.3%	13.4%	4.1%	1.5%	0.7%
	3 - 4 Prior Deployments	151	87.4%	11.9%	0.0%	0.7%	0.0%	79.5%	15.2%	4.0%	1.3%	0.0%
	5+ Prior Deployments	156	94.2%	4.5%	0.0%	1.3%	0.0%	84.0%	10.9%	2.6%	1.9%	0.6%

	Missing No. Prior Deployment	106	91.5%	5.7%	0.9%	0.0%	1.9%	79.2%	14.2%	1.9%	0.9%	3.8%
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Table 6.4: Proportion of participants with stepwise change in depressive symptom severity between pre- and post-deployment

Characteristics	Sub groups	Pre Post Deployment N	Change								
			No Change %CI	Increasing symptom				Decreasing symptom			
				One Steps %CI	Two Steps %CI	Three Steps %CI	Four Steps %CI	One Steps %CI	Two Steps %CI	Three Steps %CI	Four Steps %CI
Total Sample		1209	80.1%	12.5%	1.9%	1.2%	0.2%	3.7%	0.2%	0.2%	0.0%
Gender	Female	116	62.0%	25.0%	2.6%	0.9%	0.0%	8.6%	0.0%	0.9%	0.0%
	Male	1093	82.0%	11.2%	1.8%	1.3%	0.2%	3.2%	0.2%	0.1%	0.0%
Age	16-24	356	81.1%	11.0%	2.0%	0.8%	0.0%	4.2%	0.6%	0.3%	0.0%
	25-34	477	79.5%	11.9%	1.9%	1.7%	0.0%	5.0%	0.0%	0.0%	0.0%
	35-44	254	78.7%	15.7%	2.4%	0.8%	0.8%	1.2%	0.0%	0.4%	0.0%
	45-54	103	81.6%	13.6%	0.0%	1.9%	0.0%	2.9%	0.0%	0.0%	0.0%
	55 and over	19	89.4%	5.3%	5.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Service	Navy	65	78.5%	9.2%	1.6%	1.5%	0.0%	9.2%	0.0%	0.0%	0.0%
	Army	840	79.9%	13.0%	2.2%	1.3%	0.2%	3.0%	0.2%	0.2%	0.0%
	Air Force	304	81.3%	11.8%	1.3%	1.0%	0.0%	4.6%	0.0%	0.0%	0.0%
Rank	Officer	229	82.5%	12.2%	1.3%	0.9%	0.0%	3.1%	0.0%	0.0%	0.0%
	NCO	481	80.0%	12.5%	2.1%	1.0%	0.2%	4.0%	0.0%	0.2%	0.0%
	Other ranks	499	79.2%	12.6%	2.0%	1.6%	0.2%	3.8%	0.4%	0.2%	0.0%
Locations	In Country	900	79.7%	12.9%	2.0%	1.6%	0.2%	3.2%	0.2%	0.2%	0.0%
	Out Country	309	81.6%	11.3%	1.6%	0.3%	0.0%	5.2%	0.0%	0.0%	0.0%
Roles	Combat Afghan & Outside MSB	618	79.7%	12.8%	2.6%	1.6%	0.2%	2.9%	0.2%	0.0%	0.0%
	Inside MSB	280	79.3%	13.2%	0.7%	1.4%	0.4%	3.9%	0.4%	0.7%	0.0%
	Outside Afghan	311	81.7%	11.3%	1.6%	0.3%	0.0%	5.1%	0.0%	0.0%	0.0%
Duty	Regular	1180	80.2%	12.2%	1.9%	1.3%	0.2%	3.8%	0.2%	0.2%	0.0%
	Reservist	29	75.9%	20.7%	3.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	385	79.7%	13.5%	1.0%	1.0%	0.3%	4.2%	0.0%	0.3%	0.0%
	1 - 2 Prior Deployments	411	79.1%	11.9%	3.9%	0.7%	0.0%	4.1%	0.3%	0.0%	0.0%
	3 - 4 Prior Deployments	151	81.5%	13.2%	0.0%	1.3%	0.0%	4.0%	0.0%	0.0%	0.0%

	5+ Prior Deployments	156	83.3%	11.5%	0.7%	1.9%	0.0%	2.6%	0.0%	0.0%	0.0%
	Missing No. Prior Deployment	106	79.3%	11.3%	1.9%	2.8%	1.0%	1.9%	0.9%	0.9%	0.0%

Table 6.5: Proportion of participants in each PHQ-9 change category by length of recent deployment

Length of Recent Deployment	N	PHQ-9 Increase	PHQ-9 Decrease	PHQ-9 No change
<= 5 Months	375	12.8%	4.3%	82.9%
6-7 Months	362	19.3%	3.6%	77.1%
8 Months	262	13.4%	3.4%	83.2%
9-12 Months	210	18.1%	5.2%	76.7%

(p=0.2)

Table 6.9: Proportion of participants in each PHQ-9 change category by total time on prior deployments

Total Time on Prior Deployments	N	PHQ-9 Increase	PHQ-9 Decrease	PHQ-9 No change
None	385	15.8%	4.4%	79.7%
1-6 Months	219	12.8 %	3.7%	83.6%
7-12 Months	238	14.3%	2.5%	83.2%
> 12 Months	51	21.6%	5.9%	72.6%

(p=0.5)

Table 6.10: Proportion of participants in each PHQ-9 change category by number of prior deployments

Number of Prior Deployments	N	PHQ-9 Increase	PHQ-9 Decrease	PHQ-9 No change
None	385	15.8%	4.4%	79.7%
1-2 Times	411	16.6%	4.4%	79.1%
3-4 Times	151	14.6%	4.0%	81.5%
5+ Times	156	14.1%	2.6%	83.3%

(p=0.9)

Table 6.11: Proportion of participants in each PHQ-9 change category by previous combat exposure

Previous Combat Exposure	N	PHQ-9 Increase	PHQ-9 Decrease	PHQ-9 No change
Yes	174	17.8%	4.0%	78.2%
No	1009	15.3%	4.2%	80.6%

(p=0.5)

Appendix N

Chapter Seven

Chapter Seven- PTSD Symptoms

Table 7.1: Comparison of pre only and pre- and post-deployment respondents PHQ-15 score for Panic attack at pre-deployment

Characteristics	Sub groups	Pre Deployment Sample N	Panic Attack %	Pre Post Deployment Sample N	Panic Attack %	Difference %
Total Sample		525	0.8%	1237	0.4%	-0.4%
Gender	Female	42	4.8%	120	0.8%	-4.0%
	Male	483	0.4%	1117	0.4%	0.0%
Age	16-24	193	1.0%	367	0.3%	-0.7%
	25-34	248	0.8%	492	0.4%	-0.4%
	35-44	73	0.0%	258	0.8%	0.8%
	45-54	11	0.0%	101	0.0%	0.0%
Service	Navy	31	3.2%	68	0.0%	-3.2%
	Army	379	0.0%	857	0.5%	0.5%
	Air Force	115	2.6%	312	0.3%	-2.3%
Rank	Com Officer	63	1.6%	238	1.3%	-0.3%
	NCO	211	0.5%	487	0.2%	-0.3%
	Other ranks	251	0.8%	512	0.2%	-0.6%
Duty	Regular	444	0.9%	1207	0.4%	-0.6%
	Reservist	79	0.0%	30	0.0%	0.2%
Prior Deployments	No Prior Deployments	175	2.3%	399	0.3%	-2.3%
	1 - 2 Prior Deployments	175	0.0%	418	0.2%	2.7%
	3 - 4 Prior Deployments	59	0.0%	156	0.0%	0.0%
	5+ Prior Deployments	64	0.0%	153	0.0%	0.0%
	Missing No. Prior Deployment	52	0.0%	111	2.7%	-2.7%

Table7.2: Proportion of pre- and post-deployment responders who met criteria for Panic attack at pre- and post-deployment

Characteristics	Sub groups	Pre Post Total N	Neither Pre or Post %	Only at Pre %	Only at Post %	At Pre and Post %
Total Sample		1237	96.6%	0.1%	3.0%	0.3%
Gender	Female	120	94.2%	0.8%	5.0%	0.0%
	Male	1117	96.8%	0.0%	2.8%	0.4%
Age	16-24	367	97.8%	0.0%	1.9%	0.3%
	25-34	492	97.0%	0.2%	2.6%	0.2%
	35-44	258	94.9%	0.0%	4.3%	0.8%
	45-54	101	95.0%	0.0%	5.0%	0.0%
	55 and over	19	94.7%	0.0%	5.3%	0.0%
Service	Navy	68	98.5%	0.0%	1.5%	0.0%
	Army	857	96.6%	0.1%	2.9%	0.4%
	Air Force	312	96.2%	0.0%	3.5%	0.3%
Rank	Com Officer	238	95.8%	0.4%	3.0%	0.8%
	NCO	487	96.3%	0.0%	3.5%	0.2%
	Other ranks	512	97.3%	0.0%	2.5%	0.2%
Locations	In Country	917	96.4%	0.1%	3.1%	0.4%
	Out Country	320	97.2%	0.0%	2.8%	0.0%
Roles	Combat Afghan/Iraq & Outside MSB	630	96.8%	0.0%	3.0%	0.2%
	Inside MSB	283	95.4%	0.3%	3.2%	1.1%
	Outside Afghan/Iraq	324	97.2%	0.0%	2.8%	0.0%
Duty	Regular	1207	96.9%	0.1%	2.7%	0.3%
	Reservist	30	83.3%	0.0%	16.7%	0.0%
Prior Deployments	No Prior Deployments	399	96.7%	0.0%	3.0%	0.3%
	1 - 2 Prior Deployments	418	96.9%	0.0%	2.9%	0.2%
	3 - 4 Prior Deployments	156	96.2%	0.0%	3.8%	0.0%
	5+ Prior Deployments	153	97.4%	0.0%	2.6%	0.0%
	Missing No. Prior Deployment	111	94.6%	0.9%	2.7%	1.8%

Table 7.3: Comparison of pre only and pre- and post-deployment respondents PHQ-15 score for Panic syndrome at pre-deployment

Characteristics	Sub groups	Pre Deployment Sample N	Panic Syndrome %	Pre Post Deployment Sample N	Panic Syndrome %	Difference %
Total Sample		525	0.4%	1237	0.2%	-0.2%
Gender	Female	42	2.4%	120	0.0%	-2.4%
	Male	483	0.2%	1117	0.2%	0.0%
Age	16-24	193	1.0%	367	0.0%	-1.0%
	25-34	248	0.0%	492	0.0%	0.0%
	35-44	73	0.0%	258	0.8%	0.8%
	45-54	11	0.0%	101	0.0%	0.0%
Service	Navy	31	0.0%	68	0.0%	0.0%
	Army	379	0.0%	857	0.2%	0.2%
	Air Force	115	1.7%	312	0.0%	-1.7%
Rank	Com Officer	63	1.6%	238	0.4%	-1.2%
	NCO	211	0.0%	487	0.2%	0.2%
	Other ranks	251	0.4%	512	0.0%	-0.4%
Duty	Regular	444	0.5%	1207	0.2%	-0.3%
	Reservist	79	0.0%	30	0.0%	0.0%
Prior Deployments	No Prior Deployments	175	1.1%	399	0.0%	-1.1%
	1 - 2 Prior Deployments	175	0.0%	418	0.2%	0.2%
	3 - 4 Prior Deployments	59	0.0%	156	0.0%	0.0%
	5+ Prior Deployments	64	0.0%	153	0.0%	0.0%
	Missing No. Prior Deployment	52	0.0%	111	0.9%	0.9%

Table 7.4: Proportion of pre- and post-deployment responders who met criteria for Panic syndrome at pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment N	Neither Pre or Post %	Only at Pre %	Only at Post %	At Pre and Post %
Total Sample		1237	98.9%	0.0%	0.9%	0.2%
Gender	Female	120	100.0%	0.0%	0.0%	0.0%
	Male	1117	98.8%	0.0%	1.0%	0.2%
Age	16-24	367	99.7%	0.0%	0.3%	0.0%
	25-34	492	99.2%	0.0%	0.8%	0.0%
	35-44	258	97.6%	0.0%	1.6%	0.8%
	45-54	101	99.0%	0.0%	1.0%	0.0%
	55 and over	19	94.7%	0.0%	5.3%	0.0%
Service	Navy	68	98.5%	0.0%	1.5%	0.0%
	Army	857	99.0%	0.0%	0.8%	0.2%
	Air Force	312	99.0%	0.0%	1.0%	0.0%
Rank	Com Officer	238	98.3%	0.0%	1.3%	0.4%
	NCO	487	99.0%	0.0%	0.8%	0.2%
	Other ranks	512	99.2%	0.0%	0.8%	0.0%
Locations	In Country	917	98.8%	0.0%	1.0%	0.2%
	Out Country	320	99.4%	0.0%	0.6%	0.0%
Roles	Combat Afghan/Iraq & Outside MSB	630	99.0%	0.0%	1.0%	0.0%
	Inside MSB	283	98.2%	0.0%	1.1%	0.7%
	Outside Afghan/Iraq	324	99.4%	0.0%	0.6%	0.0%
Duty	Regular	1207	99.1%	0.0%	0.7%	0.2%
	Reservist	30	93.3%	0.0%	6.7%	0.0%
Prior Deployments	No Prior Deployments	399	99.5%	0.0%	0.5%	0.0%
	1 - 2 Prior Deployments	418	98.8%	0.0%	1.0%	0.2%
	3 - 4 Prior Deployments	156	98.7%	0.0%	1.3%	0.0%
	5+ Prior Deployments	153	99.3%	0.0%	0.7%	0.0%
	Missing No. Prior Deployment	111	97.3%	0.0%	1.8%	0.9%

Table 7.5: Comparison of pre only and pre- and post-deployment respondents PHQ-15 score for GAD at pre-deployment

Characteristics	Sub groups	Pre Deployment N	Pre Deployment	Pre Post Deployment N	Pre Deployment	Difference
			General Anxiety Syndrome %		General Anxiety Syndrome %	
Total Sample		520	0.2%	1216	1.2%	1.0%
Gender	Female	42	0.0%	122	3.3%	3.3%
	Male	478	0.2%	1094	1.0%	0.8%
Age	16-24	188	0.0%	358	1.1%	1.1%
	25-34	248	0.4%	485	1.4%	1.0%
	35-44	73	0.0%	254	0.8%	0.8%
	45-54	11	0.0%	100	0.0%	0.0%
Service	Navy	30	3.3%	68	1.5%	-1.8%
	Army	376	0.0%	837	1.3%	1.3%
	Air Force	114	0.0%	311	1.0%	1.0%
Rank	Com Officer	63	0.0%	234	1.3%	1.3%
	NCO	210	0.5%	479	1.3%	0.8%
	Other ranks	247	0.0%	503	1.2%	1.2%
Duty	Regular	441	0.2%	1188	1.2%	1.0%
	Reservist	77	0.0%	28	3.6%	3.6%
Prior Deployments	No Prior Deployments	175	0.0%	392	0.8%	0.8%
	1 - 2 Prior Deployments	172	0.0%	410	2.2%	2.2%
	3 - 4 Prior Deployments	58	1.7%	152	0.7%	-1.0%
	5+ Prior Deployments	64	0.0%	152	0.7%	0.7%
	Missing No. Prior Deployments	51	0.0%	110	0.9%	0.9%

Table 7.6: Proportion of pre- and post-deployment responders who changed GAD risk category between pre- and post-deployment

Characteristics	Sub groups	Pre Post Total N	Neither Pre or Post %	Only at Pre %	Only at Post %	At Pre and Post %
Total Sample		1216	97.8%	0.5%	1.6%	0.1%
Gender	Female	122	99.2%	0.8%	0.0%	0.0%
	Male	1094	97.7%	0.5%	1.7%	0.1%
Age	16-24	358	98.0%	0.6%	1.4%	0.0%
	25-34	485	97.5%	0.4%	1.9%	0.2%
	35-44	254	97.6%	0.8%	1.6%	0.0%
	45-54	100	99.0%	0.0%	1.0%	0.0%
	55 and over	19	100.0%	0.0%	0.0%	0.0%
Service	Navy	68	98.5%	0.0%	1.5%	0.0%
	Army	837	97.6%	0.6%	1.7%	0.1%
	Air Force	311	98.4%	0.3%	1.3%	0.0%
Rank	Officer	234	98.3%	0.4%	1.3%	0.0%
	NCO	479	97.3%	0.8%	1.7%	0.2%
	Other ranks	503	98.2%	0.2%	1.6%	0.0%
Locations	In Country	899	97.3%	0.7%	1.9%	0.1%
	Out Country	317	99.4%	0.0%	0.6%	0.0%
Roles	Combat Afghan/Iraq & Outside MSB	610	97.0%	0.5%	2.5%	0.0%
	Inside MSB	285	97.9%	1.0%	0.7%	0.4%
	Outside Afghan/Iraq	321	99.4%	0.0%	0.6%	0.0%
Duty	Regular	1188	97.8%	0.5%	1.6%	0.1%
	Reservist	28	100.0%	0.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	392	97.9%	0.3%	1.8%	0.0%
	1 - 2 Prior Deployments	410	97.8%	0.7%	1.2%	0.3%
	3 - 4 Prior Deployments	152	98.7%	0.0%	1.3%	0.0%
	5+ Prior Deployments	152	98.0%	0.7%	1.3%	0.0%
	Missing No. Prior Deployments	110	96.4%	0.9%	2.7%	0.0%

Table 7.7: Comparison between mean PCL-C Scores for Only Pre-Deployment and Both Pre- and Post-Deployment

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference
			Mean at Pre		Mean at Pre	Mean (CI)
Total Sample		526	20.1	1231	19.6	-0.5 (-1.0, 0.1)
Gender	Female	43	19.9	114	20.2	0.3 (-1.1, 1.8)
	Male	483	20.1	1117	19.6	-0.5 (-1.1, 0.0)
Age	16-24	197	20.7	367	19.1	-1.6 (-2.6, -0.6)
	25-34	246	19.5	484	20.0	0.5 (-0.3, 1.3)
	35-44	72	20.2	259	19.8	-0.4 (-1.7, 0.9)
	45-54	11	21.0	102	19.4	-1.6 (-3.9, 0.8)
	55 and over	0	NA	19	20	NA
Service	Navy	32	21.3	65	19.6	-1.7 (-3.6, 0.2)
	Army	380	20.3	858	19.7	-0.6 (-1.3, 0.1)
	Air Force	114	19.1	308	19.5	0.3 (-0.6, 1.3)
Rank	Officer	63	19.1	231	19.6	0.5 (-0.9, 1.9)
	NCO	208	19.8	486	19.8	0.0 (-0.8, 0.8)
	Other ranks	255	20.6	514	19.5	-1.1 (-2.0, -0.3)
Duty	Regular	445	20.1	1197	19.6	-0.5 (-1.1, 0.1)
	Reservist	79	19.5	34	20.0	0.5 (-1.1, 2.1)
	Missing Duty	2	37.5	0	NA	NA
Prior Deployments	No Prior Deployments	176	21.0	401	19.0	-2.0 (-3.0, -1.0)
	1 - 2 Prior Deployments	174	19.7	416	19.7	0.0 (-0.9, 0.9)
	3 - 4 Prior Deployments	59	19.4	155	20.2	0.8 (-0.9, 2.4)
	5+ Prior Deployments	63	19.8	152	20.0	0.2 (-1.1, 1.6)
	Missing Prior Deploy	54	19.4	107	20.1	0.7 (-1.2, 2.6)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 7.8: Change in mean PCL-C Scores for respondents completing both pre- and post-deployment PCL-C measure

Characteristics	Sub groups	Pre-Post	Pre	Post t	Change
		N	Mean	Mean	mean (CI)
Total Sample		1231	19.6	22.1	2.5 (2.1, 2.9)
Gender	Female	114	20.2	21.8	1.7 (0.6, 2.8)
	Male	1117	19.6	22.2	2.6 (2.2, 3.0)
Age	16-24	367	19.1	21.7	2.7 (2.0, 3.4)
	25-34	484	20.0	22.6	2.5 (1.9, 3.2)
	35-44	259	19.8	22.4	2.7 (1.8, 3.6)
	45-54	102	19.4	20.6	1.2 (0.1, 2.2)
	55 and over	19	20	23.4	3.4 (0.3, 6.5)
Service	Navy	65	19.6	20.8	1.3 (-0.3, 2.8)
	Army	858	19.7	23.0	3.3 (2.8, 3.8)
	Air Force	308	19.5	20.0	0.6 (0.0, 1.2)
Rank	Officer	231	19.6	21.6	1.9 (1.3, 2.6)
	NCO	486	19.8	22.1	2.2 (1.6, 2.8)
	Other ranks	514	19.5	22.5	3.0 (2.3, 3.7)
Locations	In Country	920	19.7	22.9	3.2 (2.7, 3.7)
	Out Country	311	19.5	19.8	0.4 (-0.2, 0.9)
Roles	Combat Afghan & Outside MSB	632	19.7	23.5	3.8 (3.2, 4.5)
	Inside MSB	284	19.7	21.7	2.0 (1.3, 2.6)
	Outside Afghan	315	19.4	19.8	0.4 (-0.2, 0.9)
Duty	Regular	1197	19.6	22.1	2.4 (2.0, 2.9)
	Reservist	34	20.0	24.4	4.4 (1.3, 7.5)
Prior Deployments	No Prior Deployments	401	19.0	21.3	2.3 (1.6, 3.0)
	1 - 2 Prior Deployments	416	19.7	22.5	2.8 (2.1, 3.4)
	3 - 4 Prior Deployments	155	20.2	22.8	2.7 (1.4, 3.9)
	5+ Prior Deployments	152	20.0	21.8	1.8 (0.7, 2.8)
	Missing No. Prior Deployment	107	20.1	23.3	3.2 (1.6, 4.9)

Table 7.10: Proportion of pre- and post-deployment responders in each PCL-C categories

Characteristics	Sub groups	Pre-Post Total N	PTSD at Pre deployment				PTSD at Post deployment			
			Low %	Moderate %	High %	Very High %	Low %	Moderate %	High %	Very High %
Total Sample		1231	95.1%	4.0%	0.7%	0.2%	88.2%	7.2%	2.4%	2.2%
Gender	Female	114	95.6%	4.4%	0.0%	0.0%	85.1%	12.3%	2.6%	0.0%
	Male	1117	95.1%	3.9%	0.8%	0.2%	88.6%	6.7%	2.3%	2.4%
Age	16-24	367	96.2%	3.0%	0.8%	0.0%	89.1%	8.4%	1.1%	1.4%
	25-34	484	93.6%	5.2%	0.8%	0.4%	85.9%	7.9%	3.1%	3.1%
	35-44	259	95.0%	4.2%	0.8%	0.0%	88.4%	6.2%	3.5%	1.9%
	45-54	102	98.0%	2.0%	0.0%	0.0%	96.1%	2.9%	0.0%	1.0%
	55 and over	19	100.0%	0.0%	0.0%	0.0%	84.2%	5.2%	5.3%	5.3%
Service	Navy	65	98.5%	1.5%	0.0%	0.0%	90.8%	4.6%	4.6%	0.0%
	Army	858	94.4%	4.4%	1.1%	0.1%	86.0%	8.5%	2.7%	2.8%
	Air Force	308	96.4%	3.3%	0.0%	0.3%	93.8%	4.2%	1.0%	1.0%
Rank	Officer	231	96.1%	3.0%	0.5%	0.4%	90.5%	7.3%	0.9%	1.3%
	NCO	486	94.7%	4.5%	0.6%	0.2%	88.9%	6.2%	2.9%	2.0%
	Other ranks	514	95.1%	3.9%	1.0%	0.0%	86.6%	8.2%	2.5%	2.7%
Locations	In Country	920	94.5%	4.3%	1.0%	0.2%	86.4%	7.8%	3.0%	2.8%
	Out Country	311	97.1%	2.9%	0.0%	0.0%	93.6%	5.5%	0.6%	0.3%
Roles	Combat Afghan Outside MSB	632	94.3%	4.6%	0.9%	0.2%	84.5%	8.8%	3.5%	3.2%
	Inside MSB	284	94.7%	3.9%	1.0%	0.4%	90.5%	5.6%	1.8%	2.1%
	Outside Afghan	315	97.1%	2.9%	0.0%	0.0%	93.7%	5.4%	0.6%	0.3%
Duty	Regular	1197	95.0%	4.0%	0.8%	0.2%	88.3%	7.3%	2.3%	2.1%
	Reservist	34	97.1%	2.9%	0.0%	0.0%	85.3%	5.9%	2.9%	5.9%
Prior Deployments	No Prior Deployments	401	97.3%	2.0%	0.7%	0.0%	90.5%	6.5%	1.5%	1.5%
	1 - 2 Prior Deployments	416	94.7%	4.3%	1.0%	0.0%	88.5%	6.0%	2.6%	2.9%
	3 - 4 Prior Deployments	155	93.6%	5.2%	0.6%	0.6%	85.8%	8.4%	3.9%	1.9%
	5+ Prior Deployments	152	94.7%	5.3%	0.0%	0.0%	88.1%	8.6%	2.0%	1.3%

	Missing No.	107	91.6%	6.6%	0.9%	0.9%	82.3%	11.2%	2.8%	3.7%
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Table 7.11: Change in PCL-C prevalence categories for Respondents Completing Both Pre- and Post-Deployment PCL-C Measure

Characteristics	Sub groups	Pre-Post Total N	Change						
			No Change %	Increasing symptom			Decreasing symptom		
				One Step %	Two Steps %	Three Steps %	One Step %	Two Steps %	Three Steps %
Total Sample		1231	88.7%	6.2%	1.9%	1.5%	1.6%	0.1%	0.0%
Gender	Female	114	86.8%	10.5%	1.8%	0.0%	0.9%	0.0%	0.0%
	Male	1117	88.9%	5.8%	1.9%	1.6%	1.7%	0.1%	0.0%
Age	16-24	367	89.1%	6.8%	1.1%	1.1%	1.6%	0.3%	0.0%
	25-34	484	86.5%	7.0%	2.7%	1.7%	2.1%	0.0%	0.0%
	35-44	259	90.4%	5.4%	1.9%	1.5%	0.8%	0.0%	0.0%
	45-54	102	94.1%	2.9%	0.0%	1.0%	2.0%	0.0%	0.0%
	55 and over	19	84.2%	5.2%	5.3%	5.3%	0.0%	0.0%	0.0%
Service	Navy	65	89.2%	4.6%	4.6%	0.0%	1.6%	0.0%	0.0%
	Army	858	87.0%	7.2%	2.2%	1.9%	1.6%	0.1%	0.0%
	Air Force	308	93.5%	3.9%	0.3%	0.7%	1.6%	0.0%	0.0%
Rank	Officer	231	91.8%	6.5%	0.4%	0.4%	0.9%	0.0%	0.0%
	NCO	486	89.9%	5.6%	1.7%	1.4%	1.4%	0.0%	0.0%
	Other ranks	514	86.2%	6.8%	2.7%	2.0%	2.1%	0.2%	0.0%
Locations	In Country	920	87.4%	6.9%	2.3%	1.8%	1.5%	0.1%	0.0%
	Out Country	311	92.6%	4.5%	0.7%	0.3%	1.9%	0.0%	0.0%
Roles	Combat & Outside MSB	632	85.1%	7.8%	3.0%	2.2%	1.7%	0.2%	0.0%
	Inside MSB	284	92.2%	4.9%	0.7%	1.1%	1.1%	0.0%	0.0%
	Outside Afghan	315	92.7%	4.5%	0.6%	0.3%	1.9%	0.0%	0.0%
Duty	Regular	1197	88.8%	6.2%	1.9%	1.3%	1.7%	0.1%	0.0%
	Reservist	34	85.3%	8.8%	0.0%	5.9%	0.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	401	90.3%	5.7%	1.0%	1.5%	1.3%	0.2%	0.0%
	1 - 2 Prior Deployments	416	89.4%	5.8%	2.6%	1.2%	1.0%	0.0%	0.0%
	3 - 4 Prior Deployments	155	85.8%	7.1%	2.0%	1.9%	3.2%	0.0%	0.0%
	5+ Prior Deployments	152	90.1%	5.9%	1.4%	1.3%	1.3%	0.0%	0.0%

	Missing No. Prior Deployment	107	82.2%	9.4%	2.8%	1.9%	3.7%	0.0%	0.0%
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Table 7.14: Proportion of participants in each PCL-C change category by length of recent deployment

Length of Recent Deployment	N	PCL-C Increase	PCL-C No change/Decrease
<= 5 Months	383	6.3%	93.7%
6-7 Months	369	11.4%	88.6%
8 Months	268	8.6%	91.4%
9-12 Months	211	13.7%	86.3%

Table 7.21: Mean (95% CI) PCL-C score for total time on prior deployments in previous 3 years

Total time on prior deployments	N	Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
None	401	19.35 (18.6, 20.06)	21.62 (20.65, 22.58)	2.27 (1.57, 2.96)
1– 6 months	214	19.85 (18.95, 20.74)	22.07 (20.82, 23.33)	2.22 (1.27, 3.18)
7– 12 months	244	20.14 (19.26, 21.03)	22.83 (21.62, 24.04)	2.69 (1.79, 3.58)
> 12 months	55	21.27 (19.86, 22.69)	25.26 (23.01, 27.50)	3.99 (2.10, 5.86)

(p=0.35)

Table 7.22: Proportion of participants in each PCL-C change category by total time on prior deployments in previous 3 years

Total Time on Prior Deployments	N	PCL-C Increase	PCL-C No change/Decrease
None	401	8.2%	91.8%
1-6 Months	214	10.8 %	89.2%
7-12 Months	244	10.3%	89.7%
> 12 Months	55	9.1%	90.9%

(p=0.8)

Table 7.23: Mean (95% CI) PCL-C score for number of prior deployments.

Prior deployments	N	Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
No prior deployments	401	19.36 (18.69, 20.04)	21.63 (20.70, 22.56)	2.27 (1.58, 2.96)
1-2 deployments	416	20.01 (19.29, 20.72)	22.77 (21.82, 23.72)	2.76 (2.08, 3.44)
3-4 deployments	155	20.50 (19.55, 21.44)	23.15 (21.75, 24.55)	2.65 (1.54, 3.76)
5+ deployments	152	20.37 (19.41, 21.32)	22.12 (20.71, 23.54)	1.75 (0.64, 2.88)

(p=0.44)

Table 7.24: Proportion of participants in each PCL-C change category by number of prior deployments

Number of Prior Deployments	N	PCL-C Increase	PCL-C No change/Decrease
None	401	8.2%	91.8%
1-2 Times	416	9.6%	90.4%
3-4 Times	155	11.0%	89.0%
5+ Times	152	8.6%	91.5%

(p=0.7)

Table 7.25: Mean (95% CI) PCL-C score for previous combat exposure.

Previous Combat Exposure	N	Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
Yes	174	21.71 (20.79, 22.64)	25.14 (23.79, 26.50)	3.43 (2.37, 4.50)
No	1030	19.66 (19.10, 20.22)	21.99 (21.30, 22.68)	2.33 (1.89, 2.76)

(p=0.06)

Table 7.26: Proportion of participants in each PCL-C change category by previous combat exposure

Previous Combat Exposure	N	PCL-C Increase	PCL-C No change/Decrease
Yes	174	13.2%	86.8%
No	1030	8.8%	91.2%

(p=0.2)

Appendix O

Chapter Eight

Appendix O: Chapter Eight - Alcohol Misuse

Table 8.1: Comparison between mean AUDIT Scores for Only Pre-Deployment and Both Pre- and Post-Deployment Responders

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference
			Mean at Pre		Mean at Pre	Mean (CI)
Total Sample		516	7.4	1210	6.7	-0.7 (-1.2, -0.3)
Gender	Female	42	5.8	118	5.3	-0.5 (-1.8, 0.7)
	Male	474	7.6	1092	6.8	-0.8 (-1.2, -0.3)
Age	16-24	190	8.8	363	7.7	-1.1 (-2.0, -0.3)
	25-34	247	6.9	479	6.8	-0.1 (-0.7, 0.5)
	35-44	69	5.5	250	5.5	0.0 (-0.9, 0.8)
	45-54	10	5.6	100	5.2	-0.4 (-2.3, 1.5)
Service	Navy	31	7.0	64	6.8	-0.2 (-2.5, 2.0)
	Army	374	7.9	843	7.1	-0.8 (-1.3, -0.3)
	Air Force	111	5.9	303	5.4	-0.5 (-1.2, 0.2)
Rank	Officer	63	5.4	234	6.0	0.6 (-0.3, 1.5)
	NCO	205	7.0	471	6.3	-0.7 (-1.3, 0.0)
	Other ranks	248	8.3	505	7.3	-1.0 (-1.7, -0.3)
Duty	Regular	439	7.5	1178	6.7	-0.8 (-1.3, -0.4)
	Reservist	76	6.7	32	6.0	-0.7 (-2.3, 1.0)
Prior Deployments	No Prior Deployments	172	7.8	395	6.7	-1.1 (-1.8, -0.3)
	1 - 2 Prior Deployments	174	7.3	401	6.4	-0.9 (-1.7, -0.2)
	3 - 4 Prior Deployments	56	7.6	151	6.9	-0.7 (-2.1, 0.8)
	5+ Prior Deployments	64	6.9	151	6.5	-0.4 (-1.5, 0.8)
	Missing No Prior Deployment	50	6.7	112	7.0	0.3 (-1.0, 1.6)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 8.2: Change in Mean AUDIT scores for Respondents Completing Both Pre- and Post-Deployment PCL-C Measure

Characteristics	Sub groups	Pre-Post Deployment	Pre Deployment	Post Deployment	Change
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		N	Mean	Mean	mean (CI)
Total Sample		1210	6.7	6.8	0.1 (-0.1, 0.3)
Gender	Female	118	5.3	4.7	-0.6 (-1.2, -0.1)
	Male	1092	6.8	7.0	0.2 (0.0, 0.4)
Age	16-24	363	7.7	8.1	0.4 (-0.1, 0.9)
	25-34	479	6.8	6.8	0.0 (-0.3, 0.3)
	35-44	250	5.5	5.4	-0.1 (-0.4, 0.2)
	45-54	100	5.2	5.4	0.2 (-0.4, 0.8)
	55 and over	18	5.4	5.3	-0.1 (-1.7, 1.5)
Service	Navy	64	6.8	5.6	-1.2 (-2.4, 0.0)
	Army	843	7.1	7.5	0.4 (0.1, 0.6)
	Air Force	303	5.4	5.1	-0.3 (-0.6, 0.1)
Rank	Officer	234	6.0	6.0	0.0 (-0.3, 0.4)
	NCO	471	6.3	6.2	-0.1 (-0.4, 0.2)
	Other ranks	505	7.3	7.7	0.4 (0.0, 0.8)
Locations	In Country	904	7.0	7.3	0.3 (0.0, 0.5)
	Out Country	306	5.6	5.3	-0.3 (-0.7, 0.0)
Roles	Combat Afghan & Outside MSB	624	7.3	7.9	0.6 (0.2, 0.9)
	Inside MSB	276	6.4	6.0	-0.4 (-0.7, 0.0)
	Outside Afghan	310	5.5	5.2	-0.3 (-0.7, 0.0)
Duty	Regular	1178	6.7	6.8	0.1 (-0.1, 0.3)
	Reservist	32	6.0	7.2	1.2 (-0.4, 2.7)
Prior Deployments	No Prior Deployments	395	6.7	7.0	0.3 (-0.2, 0.6)
	1 - 2 Prior Deployments	401	6.4	6.6	0.2 (-0.1, 0.5)
	3 - 4 Prior Deployments	151	6.9	6.9	0.0 (-0.6, 0.5)
	5+ Prior Deployments	151	6.5	6.0	-0.5 (-1.0, 0.0)
	Missing	112	7.0	7.4	0.4 (-0.4, 1.3)

Table 8.4: Mean AUDIT Zones at pre- and post-deployment for respondents completing both pre- and post-deployment AUDIT measure

Characteristics	Sub groups	Total N	AUDIT at Pre deployment				AUDIT at Post deployment			
			Zone I %	Zone II %	Zone III %	Zone IV %	Zone I %	Zone II %	Zone III %	Zone IV %
Total Sample		1210	68.4%	27.9%	2.6%	1.1%	67.7%	26.7%	3.0%	2.6%
Gender	Female	118	83.9%	14.4%	0.9%	0.8%	90.7%	9.3%	0.0%	0.0%
	Male	1092	66.8%	29.3%	2.8%	1.1%	65.3%	28.6%	3.3%	2.8%
Age	16-24	363	57.9%	36.9%	3.3%	1.9%	54.3%	37.7%	4.4%	3.6%
	25-34	479	68.5%	27.1%	3.1%	1.3%	68.9%	25.1%	3.1%	2.9%
	35-44	250	76.8%	21.6%	1.6%	0.0%	78.4%	19.6%	1.6%	0.4%
	45-54	100	84.0%	15.0%	1.0%	0.0%	85.0%	11.0%	1.0%	3.0%
	55 and over	18	77.8%	22.2%	0.0%	0.0%	66.7%	33.3%	0.0%	0.0%
Service	Navy	64	76.5%	14.1%	3.1%	6.3%	79.7%	17.2%	3.1%	0.0%
	Army	843	63.8%	32.0%	3.1%	1.1%	60.6%	32.3%	3.8%	3.3%
	Air Force	303	79.5%	19.2%	1.3%	0.0%	85.1%	13.2%	0.7%	1.0%
Rank	Officer	234	75.6%	23.5%	0.9%	0.0%	77.0%	19.2%	1.7%	2.1%
	NCO	471	70.1%	26.5%	2.6%	0.8%	71.1%	25.7%	1.7%	1.5%
	Other ranks	505	63.5%	31.1%	3.6%	1.8%	60.4%	31.1%	4.7%	3.8%
Locations	In country	904	64.4%	31.7%	2.9%	1.0%	62.2%	31.2%	3.5%	3.1%
	Out country	306	80.4%	16.3%	2.0%	1.3%	84.3%	13.4%	1.3%	1.0%
Roles	Combat Afghan & Outside MSB	624	60.9%	35.3%	2.7%	1.1%	56.1%	35.6%	4.3%	4.0%
	Inside MSB	276	71.4%	24.6%	3.3%	0.7%	75.4%	21.7%	1.8%	1.1%
	Outside Afghan	310	81.0%	15.8%	1.9%	1.3%	84.5%	13.2%	1.3%	1.0%
Duty	Regular	1178	68.3%	28.1%	2.5%	1.1%	68.0%	26.5%	3.0%	2.5%
	Reservist	32	75.0%	18.7%	6.3%	0.0%	59.4%	34.4%	3.1%	3.1%
Prior Deployments	No Prior Deployments	395	67.9%	28.6%	2.0%	1.5%	64.5%	29.4%	3.3%	2.8%
	1 - 2 Prior Deployments	401	68.3%	28.7%	2.7%	0.3%	69.1%	26.4%	2.5%	2.0%
	3 - 4 Prior Deployments	151	68.2%	26.5%	3.3%	2.0%	70.2%	23.2%	1.3%	5.3%
	5+ Prior Deployments	151	70.2%	25.2%	3.3%	1.3%	73.5%	21.9%	4.6%	0.0%
	Missing	112	68.7%	27.7%	2.7%	0.9%	63.4%	29.5%	3.6%	3.6%

Table 8.5: Change in mean AUDIT Zones for respondents completing both pre- and post-deployment AUDIT measure

Characteristics	Sub groups	Total N	Change						
			No Change %	Increasing symptom			Decreasing symptom		
				One Steps %	Two Steps %	Three Steps %	One Steps %	Two Steps %	Three Steps %
Total Sample		1210	73.1%	12.1%	1.7%	0.6%	11.7%	0.6%	0.2%
Gender	Female	118	85.6%	3.4%	0.0%	0.0%	10.2%	0.0%	0.8%
	Male	1092	71.7%	13.1%	1.9%	0.7%	11.9%	0.6%	0.1%
Age	16-24	363	65.8%	16.3%	2.8%	0.8%	12.9%	0.8%	0.6%
	25-34	479	72.7%	11.5%	1.9%	0.6%	12.5%	0.8%	0.0%
	35-44	250	79.2%	10.0%	0.0%	0.0%	10.8%	0.0%	0.0%
	45-54	100	87.0%	4.0%	2.0%	1.0%	6.0%	0.0%	0.0%
	55 and over	18	66.7%	22.2%	0.0%	0.0%	11.1%	0.0%	0.0%
Service	Navy	64	75.0%	9.4%	0.0%	0.0%	9.4%	3.1%	3.1%
	Army	843	70.0%	14.7%	2.3%	0.7%	11.7%	0.6%	0.0%
	Air Force	303	81.2%	5.6%	0.7%	0.3%	12.2%	0.0%	0.0%
Rank	Officer	234	81.2%	8.5%	1.3%	0.4%	8.6%	0.0%	0.0%
	NCO	471	74.7%	10.8%	0.9%	0.2%	13.0%	0.4%	0.0%
	Other ranks	505	67.7%	15.0%	2.8%	1.0%	12.1%	1.0%	0.4%
Locations	In country	904	70.9%	13.7%	2.2%	0.7%	11.9%	0.6%	0.0%
	Out country	306	79.4%	7.5%	0.3%	0.3%	11.1%	0.7%	0.7%
Roles	Combat Afghan & Outside MSB	624	67.8%	16.5%	2.7%	1.0%	11.4%	0.6%	0.0%
	Inside MSB	276	77.1%	7.6%	1.1%	0.0%	13.8%	0.4%	0.0%
	Outside Afghan	310	80.0%	7.4%	0.3%	0.3%	10.7%	0.7%	0.6%
Duty	Regular	1178	73.3%	11.9%	1.8%	0.5%	11.7%	0.6%	0.2%
	Reservist	32	62.5%	21.9%	0.0%	3.1%	12.5%	0.0%	0.0%
Prior Deployments	No Prior Deployments	395	73.1%	13.1%	2.3%	0.5%	9.9%	0.8%	0.3%
	1 - 2 Prior Deployments	401	73.3%	11.5%	1.5%	0.5%	13.0%	0.2%	0.0%
	3 - 4 Prior Deployments	151	74.8%	9.9%	2.0%	0.7%	11.9%	0.7%	0.0%
	5+ Prior Deployments	151	74.2%	11.3%	0.0%	0.0%	13.2%	1.3%	0.0%
	Missing	112	67.8%	15.2%	2.7%	1.8%	11.6%	0.0%	0.9%

Table 8.8: Proportion of participants in each AUDIT change category by length of recent deployment

Length of Recent Deployment	N	AUDIT Increase	AUDIT Decrease	AUDIT No change
<= 5 Months	373	7.5%	14.2%	78.3%
6-7 Months	366	16.9%	11.8%	71.3%
8 Months	265	18.5%	10.6%	70.9%
9-12 Months	206	17.5%	13.1%	69.4%

Table 8.10: Proportion of participants in each role on deployment for AUDIT change categories.

Role on recent deployment	N	AUDIT Increase	AUDIT Decrease	AUDIT No change
Combat Afghan & Outside MSB	624	20.2%	12.0%	67.8%
Inside MSB	276	8.7%	14.1%	77.2%
Outside Afghan	310	8.1%	11.9%	80.0%

Table 8.12: Proportion of participants in each AUDIT change category by number of deployment exposures

Deployment exposure (category)	N	AUDIT Increase	AUDIT Decrease	AUDIT No change
Low	337	6.8%	12.5%	80.7%
Medium	259	12.4%	10.0%	77.6%
High	290	17.9%	12.8%	69.3%
Very High	294	20.7%	13.3%	66.0%

Table 8.15: Mean (95% CI) AUDIT score for number of prior deployments.

Prior deployments	N	Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
No prior deployments	395	5.68 (5.13, 6.22)	5.92 (5.36, 6.48)	0.24 (-0.11, 0.60)
1-2 deployments	401	5.33 (4.76, 5.91)	5.52 (4.93, 6.12)	0.19 (-0.16, 0.55)
3-4 deployments	151	6.12 (5.34, 6.89)	6.09 (5.29, 6.89)	-0.03 (-0.60, 0.55)
5+ deployments	151	6.19 (5.41, 6.97)	5.68 (4.87, 6.49)	-0.51 (-1.08, 0.06)

(p=0.14)

Table 8.16: Proportion of participants in each AUDIT change category by number of prior deployments

Number of Prior Deployments	N	AUDIT Increase	AUDIT Decrease	AUDIT No change
None	395	15.9%	10.9%	73.2%
1-2 Times	401	13.5%	13.2%	73.3%
3-4 Times	151	12.6%	12.6%	74.8%
5+ Times	151	11.3%	14.6%	74.2%

Table 8.17: Mean (95% CI) AUDIT score for total time on prior deployments in previous 3 years.

Total time on prior deployments	N	Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
None	210	5.83 (5.22, 6.43)	6.07 (5.45, 6.99)	0.24 (-0.13, 0.62)
1-6 months	237	5.88 (5.12, 6.64)	5.57 (4.78, 6.35)	-0.31 (-0.83, 0.21)
7-12 months	54	6.04 (5.30, 6.79)	6.56 (5.79, 7.34)	0.52 (0.03, 1.01)
>12 months	395	6.04 (4.80, 7.28)	6.34 (5.03, 7.64)	0.30 (-0.73, 1.32)

(p=0.14)

Table 8.18: Proportion of participants in each AUDIT change category by total time on prior deployments in previous 3 years.

Total Time on Prior Deployments	N	AUDIT Increase	AUDIT Decrease	AUDIT No change
None	395	15.9%	10.9%	73.2%
1-6 Months	210	9.1 %	14.3%	76.6%
7-12 Months	237	19.4%	13.5%	67.1%
> 12 Months	54	14.8%	16.7%	68.5%

Table 8.19: Mean (95% CI) Audit score for previous combat experience

Previous combat exposure	N	Pre-deployment (95% CI)	Post-deployment (95%CI)	Change (95% CI)
Yes	167	6.75 (5.99, 7.50)	6.34 (5.55, 7.13)	-0.41 (-0.97, 0.14)
No	1014	5.71 (5.27, 6.14)	5.87 (5.43, 6.32)	0.16 (-0.06, 0.39)

(p=0.06)

Table 8.20: Proportion of participants in each AUDIT change category by previous combat exposure

Previous Combat Exposure	N	AUDIT Increase	AUDIT Decrease	AUDIT No change
Yes	167	14.4%	15.0%	70.6%
No	1014	14.1%	11.9%	74.0%

Appendix P

Chapter Nine

Chapter Nine – Psychological co-morbidity at Post-deployment

Table 9.5: Percentage of respondents in each co-morbidity category, for those who answered Yes vs No to at least one exposure for each experience.

Traumatic Deployment Categories	Exposed						Unexposed					
	Yes N	%	No co-morbidities	1 co-morbidity	2 co-morbidities	3 co-morbidities	No N	%	No co-morbidities	1 co-morbidities	2 co-morbidities	3 co-morbidities
Coming under fire	867	73.5%	48.2%	30.6%	14.1%	7.2%	313	26.5%	63.9%	25.9%	8.0%	2.2%
Vulnerable situations or fear of events	831	70.4%	46.0%	32.1%	14.7%	7.2%	350	29.6	67.7%	22.6%	7.1%	2.6%
Casualties among those close to you	719	61.1%	44.8%	31.4%	15.7%	8.1%	457	38.9%	64.3%	26.3%	7.4%	2.0%
In danger of being killed/injured	573	48.7%	44.3%	31.8%	15.9%	8.0%	604	51.3%	59.9%	27.2%	9.3%	3.6%
Seeing/handling dead bodies	578	49.2%	45.3%	29.2%	16.6%	8.8%	597	50.8%	59.1%	29.7%	8.5%	2.7%
Discharging own weapon	321	27.3%	42.7%	29.3%	18.1%	10.0%	857	72.8%	56.1%	29.3%	10.3%	4.3%
Unable to respond to a threatening situation	237	20.2%	37.6%	30.8%	18.1%	13.5%	938	79.8%	26.3%	28.8%	11.1%	3.8%
Human degradation	156	13.3%	32.7%	32.1%	19.2%	16.0%	1017	86.7%	55.6%	29.1%	11.2%	4.1%
Actions resulting in injury or death	90	7.7%	38.9%	26.7%	20.0%	14.4%	1086	92.4%	53.5%	29.7%	11.9%	5.0%

Appendix Q

Chapter Ten

Chapter Ten – Somatic Symptoms

Table 10.1: Comparison between mean number of somatic symptoms at pre-deployment for those participants who only completed the pre-deployment questionnaire and for those that completed both the pre- and post-deployment questionnaire

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference
			Mean No. Symptoms		Mean No. Symptoms	
Total Sample		537	6.6	1301	7.0	0.4 (-0.5, 1.2)
Gender	Female	43	7.0	124	8.5	1.6 (-1.0, 4.1)
	Male	494	6.6	1177	6.8	0.2 (-0.6, 1.1)
Age	16-24	199	6.3	389	6.0	-0.3 (-1.7, 1.1)
	25-34	255	6.8	521	7.3	0.6 (-0.7, 1.8)
	35-44	72	6.5	265	7.1	0.6 (-1.2, 2.5)
	45-54	11	9.6	107	7.9	-1.6 (-8.5, 5.2)
Service	Navy	32	9.5	68	7.9	-1.6 (-5.5, 2.3)
	Army	389	6.7	907	7.0	0.3 (-0.7, 1.3)
	Air Force	116	5.7	326	6.7	1.0 (-0.4, 2.5)
Rank	Officer	63	3.7	243	6.9	3.2 (1.8, 4.7)
	NCO	214	7.5	513	7.5	0.0 (-1.4, 1.3)
	Other ranks	260	6.6	545	6.5	-0.1 (-1.3, 1.1)
Duty	Regular	457	6.6	1265	7.0	0.3 (-0.6, 1.2)
	Reservist	78	6.1	36	7.4	1.4 (-1.4, 4.1)
Prior Deployments	No Prior Deployments	180	6.7	429	6.3	-0.4 (-1.9, 1.0)
	1 - 2 Prior Deployments	175	6.2	427	7.1	0.9 (-0.4, 2.3)
	3 - 4 Prior Deployments	62	6.6	163	8.4	1.9 (-0.4, 4.1)
	4+ Prior Deployments	65	7.0	160	7.3	0.3 (-2.0, 2.5)
	Missing No Prior Deployments	55	7.4	122	6.6	-0.7 (-3.7, 2.2)

Table 10.2: Comparison between pre-deployment only and pre- and post-deployment responders for the 15 most common symptoms at pre-deployment.

Symptoms	Yes Pre only (%)	Yes Pre Post Sample at Pre (%)
Fatigue	40.7%	44.1%
Feeling unrefreshed after sleep	33.8%	39.8%
Sleeping difficulties	31.4%	36.4%
Headaches	32.8%	36.0%
General muscle aches or pains	30.4%	34.5%
Low back pain	29.8%	32.4%
Irritability / outbursts of anger	29.2%	31.4%
Flatulence or burping	18.4%	23.0%
Difficulty finding the right word	19.0%	20.7%
Joint stiffness	17.8%	19.4%
Forgetfulness	14.8%	17.8%
Loss of concentration	14.2%	16.1%
Ringing in the ears	15.0%	15.3%
Sore throat	15.8%	15.0%
Feeling distant or cut off from others	13.2%	14.4%

Table 10.3: Change in mean number of somatic symptoms at pre- and post-deployment for respondents completing both pre- and post-deployment questionnaire

Characteristics	Sub groups	Pre-Post Deployment	Pre Deployment	Post Deployment	Change
		N	Mean	Mean	mean (CI)
Total Sample		1301	7.0	9.6	2.6 (2.2, 3.1)
Gender	Female	124	8.5	9.8	1.3 (-0.4, 3.0)
	Male	1177	6.8	9.6	2.8 (2.3, 3.3)
Age	16-24	389	6.0	8.8	2.8 (1.9, 3.7)
	25-34	521	7.3	9.4	2.1 (1.4, 2.8)
	35-44	265	7.1	10.7	3.6 (2.4, 4.7)
	45-54	107	7.9	9.9	2.0 (0.6, 3.4)
	55 and over	19	9.2	14.5	5.3 (0.8, 9.9)
Service	Navy	68	7.9	8.0	0.1 (-2.0, 2.3)
	Army	907	7.0	10.3	3.3 (2.7, 3.9)
	Air Force	326	6.7	8.0	1.3 (0.5, 2.2)
Rank	Officer	243	6.9	9.3	2.4 (1.5, 3.4)
	NCO	513	7.5	9.7	2.2 (1.6, 3.0)
	Other ranks	545	6.5	9.6	3.1 (2.3, 3.9)
Locations	In country	970	7.1	10.4	3.3 (2.7, 3.8)
	Out country	331	6.6	7.4	0.8 (0.0, 1.7)
Roles	Combat Afghan & Outside MSB	672	7.0	10.8	3.8 (3.1, 4.5)
	Inside MSB	294	7.2	9.3	2.1 (1.2, 3.0)
	Outside Afghan	335	6.6	7.4	0.8 (0.0, 1.7)
Duty	Regular	1265	7.0	9.5	2.5 (2.1, 3.0)
	Reservist	36	7.4	14.2	6.8 (3.2, 10.4)
Prior Deployments	No Prior Deployments	429	6.3	9.2	2.9 (2.1, 3.8)
	1 - 2 Prior Deployments	427	7.1	9.8	2.7 (1.9, 3.5)
	3 - 4 Prior Deployments	163	8.4	10.4	2.0 (0.8, 3.3)
	5+ Prior Deployments	160	7.3	9.6	2.3 (1.0, 3.7)
	Missing	122	6.6	9.2	2.6 (0.9, 4.2)

Table 10.4: 15 most common symptoms reported at pre-deployment for respondents that completed the symptom measure at pre- and post-deployment

Symptoms	Yes Pre (%)
Fatigue	44.1%
Feeling unrefreshed after sleep	39.8%
Sleeping difficulties	36.4%
Headaches	36.0%
General muscle aches or pains	34.5%
Low back pain	32.4%
Irritability / outbursts of anger	31.4%
Flatulence or burping	23.0%
Difficulty finding the right word	20.7%
Joint stiffness	19.4%
Forgetfulness	17.8%
Loss of concentration	16.1%
Ringing in the ears	15.3%
Sore throat	15.0%
Feeling distant or cut off from others	14.4%

Table 10.5: 15 most common symptoms reported at post-deployment for respondents that completed the symptom measure at pre- and post-deployment

Symptoms	Yes Post (%)
Sleeping difficulties	52.1%
Feeling unrefreshed after sleep	48.9%
Fatigue	47.8%
Irritability / outbursts of anger	46.4%
Headaches	39.6%
Low back pain	38.6%
General muscle aches or pains	32.2%
Difficulty finding the right word	28.8%
Forgetfulness	27.0%
Feeling distant or cut off from others	26.4%
Loss of concentration	26.1%
Ringing in the ears	25.1%
Feeling jumpy / easily startled	25.0%
Joint stiffness	23.0%

Table 10.11: Mean (95% CI) number of symptoms for number of prior deployments.

Number of prior deployments	N	Pre-deployment (95% CI)	Post-deployment (95% CI)	Change (95% CI)
None	360	7.36 (6.19, 8.52)	10.22 (8.89, 11.55)	2.86 (1.98, 3.75)
1-2 times	351	8.23 (6.98, 9.49)	10.75 (9.34, 12.17)	2.52 (1.62, 3.42)
3-4 times	137	8.95 (7.33, 10.56)	10.93 (9.01, 12.85)	1.99 (0.55, 3.42)
5+ times	126	7.74 (6.06, 9.41)	10.66 (8.67, 12.65)	2.92 (1.42, 4.42)

p=0.74

Table 10.12: Mean (95% CI) number of symptoms reported for total time in past three years prior deployments.

Total time on prior deployments	N	Pre-deployment (95% CI)	Post-deployment (95% CI)	Change (95% CI)
None	360	7.20 (5.95, 8.44)	10.06 (8.67, 11.45)	2.86 (1.98, 3.75)
1-6 months	185	7.41 (5.85, 8.96)	9.86 (8.08, 11.63)	2.45 (1.21, 3.68)
7-12 months	201	8.95 (7.38, 10.52)	10.25 (8.48, 12.02)	1.30 (0.11, 2.48)
>12 months	47	9.53 (7.05, 12.00)	13.19 (10.18, 16.19)	3.66 (1.21, 6.11)

p=0.14

Table 10.13: Mean (95% CI) number of symptoms reported for previous combat exposures.

Previous combat	N	Pre deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
Yes	141	9.11 (7.53, 10.69)	12.36 (10.50, 14.22)	3.25 (1.84, 4.65)
No	887	7.67 (6.72, 8.61)	10.07 (9.05, 11.09)	2.40 (1.84, 2.96)

p=0.27

Table 10.14: 15 most common changes in symptom at post-deployment for respondents who had no psychological syndromes at post-deployment

Symptom	Yes Post-Deployment %
Sleeping Difficulties	38.6%
Feeling Unrefreshed After Sleep	32.5%
Fatigue	32.2%
Headaches	30.5%
Irritability/outbursts of anger	27.9%
Lower back pain	27.5%
General muscle aches or pains	21.0%
ringing in the ears	19.2%
Joint stiffness	15.4%
Forgetfulness	15.3%
Difficulty finding the right word	14.7%
Flatulence or burping	13.7%
Feeling jumpy easily startled	11.6%
Loss of concentration	11.1%
Diarrhoea	11.0%

Table 10.15: 15 most common changes in symptom at post-deployment for respondents who had one psychological condition at post-deployment

Symptom	Yes Post-Deployment %
Feeling unrefreshed after sleep	59.9%
Sleeping difficulties	58.0%
Fatigue	55.1%
Irritability / outbursts of anger	53.8%
Low back pain	44.0%
General muscle aches or pains	42.7%
Headaches	39.5%
Difficulty finding the right word	33.0%
Feeling distant or cut off from others	31.1%
Loss of concentration	30.0%
Forgetfulness	26.9%
Joint stiffness	26.4%
Avoiding doing things or situations	24.7%
Ringling in the ears	24.1%
Flatulence or burping	22.8%

Table 10.16: 15 most common changes in symptom at post-deployment for respondents who had two psychological conditions at post-deployment

Symptom	Yes Post-Deployment %
Sleeping difficulties	81.9%
Irritability / outbursts of anger	79.9%
Fatigue	78.4%
Feeling unrefreshed after sleep	77.9%
Headaches	62.8%
Feeling distant or cut off from others	59.1%
Loss of concentration	58.0%
Feeling jumpy / easily startled	57.7%
Low back pain	56.7%
Difficulty finding the right word	53.3%
Forgetfulness	53.3%
Avoiding doing things or situations	50.7%
Ringling in the ears	48.0%
General muscle aches or pains	46.6%
Distressing dreams	42.0%

Table 10.17: 15 most common changes in symptom at post-deployment for respondents who had three psychological conditions at post-deployment

Symptom	Yes Post-Deployment %
Fatigue	98.6%
Feeling unrefreshed after sleep	97.2%
Irritability / outbursts of anger	94.4%
Sleeping difficulties	94.4%
Loss of concentration	86.3%
Feeling distant or cut off from others	86.1%
Difficulty finding the right word	80.8%
Feeling jumpy / easily startled	79.2%
Avoiding doing things or situations	78.1%
Headaches	76.4%
Forgetfulness	75.3%
Distressing dreams	71.2%
Low back pain	71.2%
General muscle aches or pains	60.3%
Joint stiffness	57.5%

Appendix R

Chapter Eleven

Appendix R: Chapter Eleven – Mild Traumatic Brain Injury

Table 11.1: Comparison of pre only and pre- and post-deployment respondents reported lifetime mTBI at pre-deployment

Characteristics	Sub groups	Pre Deployment Sample N	mTBI Pre only %	Pre Post Deployment Sample N	mTBI at Pre %	Difference %
Total Sample		539	26.3%	1295	26.9%	0.6%
Gender	Female	43	14.0%	124	19.4%	5.4%
	Male	496	27.4%	1171	27.8%	0.4%
Age	16-24	200	22.0%	389	24.4%	2.4%
	25-34	255	28.2%	515	27.0%	-1.2%
	35-44	73	32.9%	265	29.1%	-3.8%
	45-54	11	18.2%	107	31.8%	13.6%
	55 and over	0	NA	19	21.1%	NA
Service	Navy	32	25.0%	67	28.4%	3.4%
	Army	391	29.2%	902	28.3%	-0.9%
	Air Force	116	17.2%	326	23.0%	5.8%
Rank	Officer	63	25.4%	241	27.4%	2.0%
	NCO	215	29.8%	512	27.1%	-2.7%
	Other ranks	261	23.8%	542	26.6%	2.8%
Locations	In Country	0	NA	966	28.2%	NA
	Out Country	0	NA	329	23.4%	NA
	Missing Location	539	26.3%	0	NA	NA
Roles	Combat Afghan & Outside MSB	0	NA	669	30.3%	NA
	Inside MSB	0	NA	293	23.5%	NA
	Outside Afghan	0	NA	333	23.1%	NA
	Missing Roles	539	26.3%	0	NA	NA
Duty	Regular	459	25.5%	1259	26.8%	1.3%
	Reservist	78	30.8%	36	33.3%	2.5%

	Missing Duty	2	50.0%	0	NA	NA
Prior Deployments	No Prior Deployments	179	25.1%	426	23.9%	-1.2%
	1 - 2 Prior Deployments	177	21.5%	427	30.7%	9.2%
	3 - 4 Prior Deployments	62	32.3%	162	28.4%	-3.9%
	5+ Prior Deployments	65	35.4%	158	26.6%	-8.8%
	Missing No. Prior Deployments	56	28.6%	122	23.0%	-5.6%

Table 11.3 Proportion of pre- and post-deployment responders who reported mTBI at pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment N	Neither Pre or Post %	Only at Pre %	Only at Post %	At Pre and Post %
Total Sample		1295	67.4%	23.3%	5.7%	3.6%
Gender	Female	124	79.0%	17.0%	1.6%	2.4%
	Male	1171	66.2%	24.0%	6.1%	3.8%
Age	16-24	389	66.8%	20.8%	8.8%	3.6%
	25-34	515	67.8%	21.9%	5.2%	5.1%
	35-44	265	67.5%	27.2%	3.4%	1.9%
	45-54	107	65.4%	30.9%	2.8%	0.9%
	55 and over	19	78.9%	15.8%	0.0%	5.3%
Service	Navy	67	68.7%	26.9%	3.0%	1.5%
	Army	902	64.5%	23.7%	7.2%	4.6%
	Air Force	326	75.2%	21.5%	1.8%	1.5%
Rank	Com Officer	241	70.1%	25.3%	2.5%	2.1%
	NCO	512	68.2%	23.4%	4.7%	3.7%
	Other ranks	542	65.5%	22.3%	7.9%	4.3%
Locations	In Country	966	64.7%	23.7%	7.1%	4.5%
	Out Country	329	75.4%	22.2%	1.2%	1.2%
Roles	Combat Afghan & Outside MSB	669	60.4%	24.8%	9.3%	5.5%
	Inside MSB	293	74.1%	21.5%	2.4%	2.0%
	Outside Afghan	333	75.7%	21.9%	1.2%	1.2%
Duty	Regular	1259	67.6%	23.3%	5.6%	3.5%
	Reservist	36	61.1%	25.0%	5.6%	8.3%
Prior Deployments	No Prior Deployments	426	72.0%	21.4%	4.0%	2.6%
	1 - 2 Prior Deployments	427	62.7%	25.8%	6.6%	4.9%
	3 - 4 Prior Deployments	162	65.4%	25.3%	6.2%	3.1%
	5+ Prior Deployments	158	67.7%	23.4%	5.7%	3.2%
	Missing Prior Deployments	122	69.6%	18.9%	7.4%	4.1%

Table 11.6: Proportion of participants with and without new post-deployment mTBI by length of recent deployment

Length of Recent Deployment	N	New post-deployment mTBI	No new post-deployment mTBI
<= 5 Months	395	6.8%	93.2%
6-7 Months	394	10.7%	89.3%
8 Months	284	9.9%	90.1%
9-12 Months	222	10.4%	89.6%

p=0.6

Table 11.9: Percentage of respondents exposed to each experience with and without new mTBI.

Deployment experiences	Exposed				Unexposed				Exposed Vs Unexposed	
	Yes N	Percentage	New post-deployment mTBI	No new post-deployment mTBI	No N	Percentage	New post-deployment mTBI	No new post-deployment mTBI	OR (95 % CI)	P
Coming under fire	906	72.7%	11.5%	88.5%	340	27.3%	2.1%	97.9%	4.79 (1.85, 12.43)	p=0.001
Vulnerable situations or fear of events	872	69.9%	11.7%	88.3%	375	30.1%	2.4%	97.6%	3.63 (1.56, 8.66)	p=0.002
Casualties among those close to you	755	60.8%	13.6%	86.4%	486	39.2%	1.4%	98.6%	11.10 (4.54, 27.14)	p<0.0001
In danger of being killed/injured	600	48.3%	14.8%	85.2%	642	51.7%	3.4%	96.6%	3.81 (2.15, 6.76)	p<0.0001
Seeing/handling dead bodies	604	48.7%	14.1%	85.9%	636	51.3%	3.9%	96.1%	2.85 (1.69, 4.81)	p<0.0001
Discharging own weapon	335	26.9%	17.9%	82.1%	910	73.1%%	5.6%	94.4%	2.48 (1.58, 3.89)	p<0.0001
Unable to respond to a threatening situation	253	20.4%	19.0%	81.0%	987	79.6%	6.3%	93.7%	2.48 (1.64, 4.01)	p<0.0001
Human degradation	165	13.3%	19.4%	80.6%	1073	86.7%	7.2%	92.8%	2.39 (1.50, 3.80)	p=0.0002
Actions resulting in injury or death	94	7.6%	26.6%	73.4%	1147	92.4%	7.4%	92.6%	3.59 (2.13, 6.06)	p<0.0001

Table 11.12: Proportion of participants with and without new post-deployment mTBI by number of prior deployments

Number of Prior Deployments	N	New post-deployment mTBI	No new post-deployment mTBI
None	426	6.6%	93.4%
1-2 Times	427	11.5%	88.5%
3-4 Times	162	9.3%	90.7%
5+ Times	158	8.9%	91.1%

(p=0.1)

Table 11.13: Proportion of participants with and without lifetime mTBI reported at pre-deployment by total time on prior deployments

Total Time on Prior Deployments	N	Lifetime pre-deployment mTBI	No lifetime pre-deployment mTBI
None	426	23.9%	76.1%
1-6 Months	226	30.5%	69.5%
7-12 Months	251	26.7%	73.3%
> 12 Months	58	22.4%	77.6%

p=0.2431

Table 11.18: Proportion of participants with and without lifetime mTBI in each co-morbidity category.

Lifetime mTBI at pre-deployment	N	No Psychological Conditions	One Psychological Condition	Two Psychological Conditions	Three Psychological Conditions
Yes	346	45.9%	29.6%	14.7%	9.8%
No	937	54.2%	30.1%	11.6%	4.1%

Appendix S

Chapter Twelve

Chapter Twelve – Cardiovascular Health

Table 12.2: Comparison between mean waist to hip ratio for respondents completing only pre-deployment and respondents completing both pre- and post-deployment

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deploy	Pre Post Sample N	Pre Post Deploy	Difference Mean (CI)
			Mean at Pre		Mean at Pre	
Total Sample		256	0.86	390	0.85	-0.01 (-0.01, 0.00)
Gender	Female	7	0.75	5	0.79	0.04 (-0.10, 0.17)
	Male	249	0.86	385	0.85	-0.01 (-0.02, 0.00)
Age	16-24	89	0.83	188	0.83	0.00 (-0.01, 0.01)
	25-34	132	0.85	147	0.85	0.00 (-0.01, 0.01)
	35-44	30	0.90	46	0.88	-0.02 (-0.05, 0.01)
	45-54	5	0.91	9	0.90	-0.01 (-0.05, 0.03)
Service	Navy	15	0.86	18	0.87	0.01 (-0.04, 0.06)
	Army	238	0.85	372	0.85	0.00 (-0.01, 0.00)
Rank	Officer	30	0.84	19	0.86	0.02 (-0.01, 0.06)
	NCO	99	0.87	125	0.86	0.00 (-0.02, 0.01)
	Other ranks	127	0.85	246	0.84	-0.01 (-0.02, 0.00)
Duty	Regular	218	0.85	362	0.85	0.00 (-0.01, 0.01)
	Reservist	21	0.88	15	0.87	-0.01 (-0.06, 0.04)
	Missing Duty	17	0.86	13	0.84	-0.02 (-0.06, 0.02)
Prior Deployments	No Prior Deployments	52	0.84	94	0.84	0.00 (-0.01, 0.03)
	1 - 2 Prior Deployments	86	0.86	145	0.85	-0.01 (-0.03, 0.00)
	3 - 4 Prior Deployments	40	0.86	50	0.86	0.00 (-0.03, 0.02)
	5+ Prior Deployments	33	0.87	39	0.87	0.00 (-0.03, 0.03)
	Missing No. Prior Deployments	45	0.85	62	0.85	0.00 (-0.02, 0.02)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 12.3: Change in Mean waist to hip ratio for respondents completing both pre- and post-deployment physical test

Characteristics	Sub groups	Pre-Post Deployment	Pre Deployment	Post Deployment	Change
		N	Mean	Mean	mean (CI)
Total Sample		390	0.85	0.85	0.00 (-0.01, 0.00)
Gender	Female	5	0.79	0.80	0.01 (-0.04, 0.08)
	Male	385	0.85	0.85	0.00 (-0.01, 0.00)
Age	16-24	188	0.83	0.83	0.00 (-0.01, 0.00)
	25-34	147	0.85	0.85	0.00 (-0.01, 0.01)
	35-44	46	0.88	0.89	0.01 (-0.01, 0.02)
	45-54	9	0.90	0.92	0.02 (0.00, 0.05)
Service	Navy	18	0.87	0.87	0.00 (-0.01, 0.02)
	Army	372	0.85	0.85	0.00 (-0.01, 0.00)
Rank	Officer	19	0.86	0.86	0.00 (-0.02, 0.02)
	NCO	125	0.86	0.86	0.00 (-0.01, 0.01)
	Other ranks	246	0.84	0.85	-0.01 (-0.02, 0.00)
Locations	In Country	310	0.85	0.85	0.00 (-0.01, 0.01)
	Out Country	17	0.87	0.87	0.00 (-0.01, 0.02)
	Missing Location	63	0.85	0.85	0.00 (-0.01, 0.01)
Roles	Combat Afghan & Outside MSB	272	0.84	0.84	0.00 (-0.01, 0.00)
	Inside MSB	38	0.86	0.86	0.00 (-0.02, 0.02)
	Outside Afghan	17	0.87	0.87	0.00 (-0.01, 0.02)
	Missing Roles	63	0.85	0.85	0.00 (-0.01, 0.01)
Duty	Regular	362	0.85	0.85	0.00 (-0.01, 0.0)
	Reservist	15	0.87	0.86	-0.01 (-0.03, 0.01)
	Missing Duty	13	0.84	0.86	0.02 (-0.01, 0.05)
Prior Deployments	No Prior Deployments	94	0.84	0.85	0.01 (0.00, 0.02)
	1 - 2 Prior Deployments	145	0.85	0.84	-0.01 (-0.01, 0.00)
	3 - 4 Prior Deployments	50	0.86	0.86	0.00 (-0.01, 0.01)
	5+ Prior Deployments	39	0.87	0.86	-0.01 (-0.02, 0.00)
	Missing No. Prior Deployments	62	0.85	0.85	0.00 (-0.01, 0.01)

Table 12.5: Change in waist to hip ratio categories for respondents completing both pre- and post-deployment physical test

Characteristics	Sub groups	Pre-Post Deployment N	Normal at Both %	Abdominal Obesity at Pre %	Abdominal Obesity at Post %	Abdominal Obesity at Both %
Total Sample		390	80.7%	4.4%	8.2%	6.7%
Gender	Female	5	40.0%	0.0%	20.0%	40.0%
	Male	385	81.3%	4.4%	8.1%	6.2%
Age	16-24	188	94.1%	2.7%	2.1%	1.1%
	25-34	147	74.1%	6.8%	11.6%	7.5%
	35-44	46	56.5%	4.3%	19.6%	19.6%
	45-54	9	33.3%	0.0%	22.2%	44.5%
Service	Navy	18	72.2%	5.6%	5.6%	16.6%
	Army	372	81.2%	4.3%	8.3%	6.2%
Rank	Officer	19	73.7%	5.3%	10.5%	10.5%
	NCO	125	65.6%	5.6%	15.2%	13.6%
	Other ranks	246	89.0%	3.7%	4.5%	2.8%
Locations	In Country	310	81.0%	4.5%	8.7%	5.8%
	Out Country	17	70.6%	5.9%	5.9%	17.6%
	Missing Location	63	82.6%	3.2%	6.3%	7.9%
Roles	Combat Afghan & Outside MSB	272	83.8%	4.1%	7.7%	4.4%
	Inside MSB	38	60.5%	7.9%	15.8%	15.8%
	Outside Afghan	17	70.6%	5.9%	5.9%	17.6%
	Missing Roles	63	82.6%	3.2%	6.3%	7.9%
Duty	Regular	362	81.2%	4.4%	8.0%	6.4%
	Reservist	15	73.3%	0.0%	6.7%	20.0%
	Missing Duty	13	76.9%	7.7%	15.4%	0.0%
Prior Deployments	No Prior Deployments	94	81.9%	2.1%	10.7%	5.3%
	1 - 2 Prior Deployments	145	83.5%	4.8%	6.2%	5.5%
	3 - 4 Prior Deployments	50	78.0%	8.0%	10.0%	4.0%
	5+ Prior Deployments	39	66.7%	5.1%	12.8%	15.4%
	Missing No. Prior Deployments	62	83.9%	3.2%	4.8%	8.1%

Table 12.6: Comparison between mean BMI for respondents completing only pre-deployment and respondents completing both pre- and post-deployment

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference
			Mean at Pre		Mean at Pre	Mean (CI)
Total Sample		255	26.3	399	26.1	-0.2 (-0.7, 0.2)
Gender	Female	7	24.3	5	24.6	0.3 (-2.8, 3.5)
	Male	248	26.3	394	26.1	-0.2 (-0.7, 0.2)
Age	16-24	89	25.3	188	25.2	-0.1 (-0.8, 0.5)
	25-34	132	26.5	154	26.5	0.0 (-0.6, 0.7)
	35-44	29	27.9	47	27.3	-0.6 (-1.9, 0.7)
	45-54	5	27.4	10	28.2	0.8 (-1.8, 3.5)
Service	Navy	15	26.8	18	27.2	0.4 (-2.1, 2.9)
	Army	237	26.2	381	26.0	-0.2 (-0.7, 0.2)
Rank	Officer	30	25.9	19	26.2	0.3 (-0.9, 1.4)
	NCO	98	27.0	129	26.8	-0.2 (-1.0, 0.6)
	Other ranks	127	25.8	251	25.7	-0.1 (-0.7, 0.4)
Duty	Regular	218	26.2	371	26.0	-0.2 (-0.7, 0.3)
	Reservist	20	26.0	15	26.5	0.5 (-1.2, 2.3)
	Missing Duty	17	27.1	13	25.8	-1.3 (-3.5, 1.0)
Prior Deployments	No Prior Deployments	52	25.2	94	25.5	0.3 (-0.6, 1.3)
	1 - 2 Prior Deployments	85	26.6	146	25.9	-0.7 (-1.4, 0.1)
	3 - 4 Prior Deployments	40	26.5	52	26.4	-0.1 (-1.2, 1.0)
	5+ Prior Deployments	33	26.5	43	27.6	1.1 (0.0, 2.2)
	Missing No. Prior Deploy	45	26.4	64	25.7	-0.7 (-1.8, 0.4)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 12.7: Change in Mean BMI for respondents completing both pre- and post-deployment physical test

Characteristics	Sub groups	Pre-Post Deployment	Pre Deployment	Post Deployment	Change
		N	Mean	Mean	mean (CI)
Total Sample		399	26.1	26.6	0.5 (0.4, 0.7)
Gender	Female	5	24.6	25.2	0.6 (0.3, 1.0)
	Male	394	26.1	26.6	0.5 (0.4, 0.7)
Age	16-24	188	25.2	25.7	0.5 (0.3, 0.7)
	25-34	154	26.5	27.1	0.6 (0.4, 0.8)
	35-44	47	27.3	27.6	0.3 (0.0, 0.6)
	45-54	10	28.2	28.8	0.6 (-0.4, 1.6)
Service	Navy	18	27.2	27.0	-0.2 (-1.0, 0.5)
	Army	381	26.0	26.6	0.6 (0.4, 0.7)
Rank	Officer	19	26.2	26.6	0.4 (-0.2, 1.0)
	NCO	129	26.8	27.4	0.6 (0.4, 0.8)
	Other ranks	251	25.7	26.2	0.5 (0.3, 0.7)
Locations	In Country	318	26.0	26.6	0.6 (0.4, 0.7)
	Out Country	17	27.1	27.0	-0.1 (-0.9, 0.7)
	Missing Location	64	25.9	26.5	0.6 (0.3, 0.9)
Roles	Combat Afghan & Outside MSB	279	26.0	26.6	0.6 (0.5, 0.7)
	Inside MSB	39	26.4	26.7	0.3 (-0.2, 0.8)
	Outside Afghan	17	27.1	27.0	-0.1 (-0.9, 0.7)
	Missing Roles	64	25.9	26.5	0.6 (0.3, 0.9)
Duty	Regular	371	26.0	26.6	0.6 (0.4, 0.7)
	Reservist	15	26.5	26.8	0.3 (-0.3, 1.0)
	Missing Duty	13	25.8	26.1	0.3 (-0.4, 1.0)
Prior Deployments	No Prior Deployments	94	25.5	26.2	0.7 (0.4, 0.9)
	1 - 2 Prior Deployments	146	25.9	26.5	0.6 (0.4, 0.8)
	3 - 4 Prior Deployments	52	26.4	26.7	0.3 (-0.1, 0.7)
	5+ Prior Deployments	43	27.6	27.8	0.2 (-0.1, 0.6)
	Missing No. Prior Deployments	64	25.7	26.3	0.6 (0.2, 1.0)

Table 12.9: Change in BMI categories between pre- and post-deployment for respondents completing both pre- and post-deployment physical test

Characteristics	Sub groups	Pre-Post Deployment N	No Change %	Increase %	Decrease %
Total Sample		399	78.9%	17.0%	4.1%
Gender	Female	5	100.0%	0.0%	0.0%
	Male	394	78.7%	17.2%	4.1%
Age	16-24	188	80.3%	17.0%	2.7%
	25-34	154	76.6%	18.8%	4.6%
	35-44	47	80.8%	12.8%	6.4%
	45-54	10	80.0%	10.0%	10.0%
Service	Navy	18	77.8%	5.6%	16.6%
	Army	381	79.0%	17.6%	3.4%
Rank	Officer	19	73.7%	15.8%	10.5%
	NCO	129	79.0%	17.1%	3.9%
	Other ranks	251	79.3%	17.1%	3.6%
Locations	In Country	318	78.6%	17.9%	3.5%
	Out Country	17	76.5%	5.9%	17.6%
	Missing Location	64	81.3%	15.6%	3.1%
Roles	Combat Afghan & Outside MSB	279	77.1%	19.7%	3.2%
	Inside MSB	39	89.7%	5.1%	5.2%
	Outside Afghan	17	76.5%	5.9%	17.6%
	Missing Roles	64	81.3%	15.6%	3.1%
Duty	Regular	371	77.6%	18.1%	4.3%
	Reservist	15	93.3%	6.7%	0.0%
	Missing Duty	13	100.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	94	83.0%	17.0%	0.0%
	1 - 2 Prior Deployments	146	76.7%	19.9%	3.4%
	3 - 4 Prior Deployments	52	78.9%	11.5%	9.6%
	5+ Prior Deployments	43	81.4%	11.6%	7.0%
	Missing No. Prior Deployments	64	76.5%	18.8%	4.7%

Table 12.10: Comparison of mean systolic blood pressure between respondents completing only pre-deployment and respondents completing both pre- and post-deployment

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference Mean (CI)
			Mean at Pre		Mean at Pre	
Total Sample		256	120.4	396	121.5	1.1 (-0.7, 2.8)
Gender	Female	7	101.6	5	104.1	2.5 (-6.4, 11.3)
	Male	249	121.0	391	121.7	0.7 (-1.0, 2.5)
Age	16-24	89	118.3	187	120.2	1.9 (-0.9, 4.8)
	25-34	132	121.3	152	121.6	0.3 (-2.3, 2.9)
	35-44	30	122.2	47	125.8	3.6 (-1.0, 8.2)
	45-54	5	124.1	10	123.4	-0.7 (-16.6, 15.2)
Service	Navy	15	118.9	18	123.0	4.1 (-4.6, 12.9)
	Army	238	120.5	378	121.4	0.9 (-0.9, 2.7)
Rank	Officer	30	121.1	18	121.0	-0.1 (-2.8, 5.6)
	NCO	99	122.4	129	123.7	1.3 (-1.9, 4.4)
	Other ranks	127	118.7	249	120.3	1.6 (-0.6, 4.0)
Duty	Regular	218	120.3	368	121.5	1.2 (-0.7, 3.0)
	Reservist	21	121.7	15	123.9	2.2 (-5.8, 10.2)
	Missing Duty	17	120.0	13	118.7	-1.3 (-9.4, 6.6)
Prior Deployments	No Prior Deployments	52	117.0	93	118.3	1.3 (-2.5, 5.1)
	1 - 2 Prior Deployments	86	120.9	146	122.2	1.3 (-1.5, 4.1)
	3 - 4 Prior Deployments	40	121.6	52	121.9	0.3 (-3.8, 4.5)
	5+ Prior Deployments	33	124.3	42	128.6	4.3 (-1.4, 10.1)
	Missing No. Prior Deployments	45	119.7	63	119.4	-0.3 (-4.5, 4.1)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 12.11: Comparison of mean diastolic blood pressure between respondents completing only pre-deployment and respondents completing both pre- and post-deployment

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference Mean (CI)
			Mean at Pre		Mean at Pre	
Total Sample		256	66.6	396	66.5	-0.1 (-1.6, 1.4)
Gender	Female	7	58.4	5	66.4	8.0 (-3.0, 19.0)
	Male	249	66.8	391	66.5	-0.3 (-1.8, 1.3)
Age	16-24	89	63.2	187	64.1	0.9 (-1.5, 3.1)
	25-34	132	67.2	152	66.9	-0.3 (-2.5, 2.0)
	35-44	30	71.7	47	73.6	1.9 (-2.0, 5.8)
	45-54	5	76.0	10	72.1	-3.9 (-11.2, 3.4)
Service	Navy	15	65.9	18	69.4	3.5 (-2.4, 9.5)
	Army	238	66.6	378	66.4	-0.2 (-1.8, 1.3)
Rank	Officer	30	66.5	18	68.1	1.6 (-4.6, 7.9)
	NCO	99	69.2	129	69.2	-0.0 (-2.6, 2.5)
	Other ranks	127	64.5	249	65.0	0.5 (-1.5, 2.5)
Duty	Regular	218	66.7	368	66.3	-0.4 (-2.0, 1.2)
	Reservist	21	68.1	15	73.6	5.5 (-1.7, 12.8)
	Missing Duty	17	63.0	13	64.6	1.6 (-4.6, 7.8)
Prior Deployments	No Prior Deployments	52	62.9	93	63.8	0.9 (-2.4, 4.2)
	1 - 2 Prior Deployments	86	67.4	146	66.4	-1.0 (-3.4, 1.4)
	3 - 4 Prior Deployments	40	67.6	52	67.0	-0.6 (-4.3, 3.2)
	5+ Prior Deployments	33	70.7	42	73.1	2.4 (-2.5, 7.3)
	Missing No. Prior Deployments	45	65.1	63	65.8	0.7 (-2.9, 4.3)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 12.12 Change in mean systolic blood pressure for respondents completing both pre- and post-deployment physical test

Characteristics	Sub groups	Pre-Post Deployment	Pre Deployment	Post Deployment	Change
		N	Mean	Mean	mean (CI)
Total Sample		396	121.5	121.0	-0.5 (-1.5, 0.4)
Gender	Female	5	104.1	99.6	-4.5 (-12.8, 3.8)
	Male	391	121.7	121.2	-0.5 (-1.4, 0.5)
Age	16-24	187	120.2	119.8	-0.4 (-1.7, 0.9)
	25-34	152	121.6	121.6	0.0 (-1.5, 1.5)
	35-44	47	125.8	123.7	-2.1 (-5.3, 1.2)
	45-54	10	123.4	119.8	-3.6 (-9.7, 2.4)
Service	Navy	18	123.0	120.1	-2.9 (-7.8, 2.0)
	Army	378	121.4	121.0	-0.4 (-1.4, 0.6)
Rank	Officer	18	121.0	117.6	-3.4 (-10.1, 3.2)
	NCO	129	123.7	122.9	-0.8 (-2.6, 0.9)
	Other ranks	249	120.3	120.2	-0.1 (-1.3, 1.0)
Locations	In Country	315	121.6	120.8	-0.8 (-1.8, 0.3)
	Out Country	17	121.6	120.2	-1.4 (-5.5, 2.6)
	Missing Location	64	120.7	121.7	1.0 (-1.6, 3.5)
Roles	Combat Afghan & Outside MSB	277	121.7	121.2	-0.5 (-1.5, 0.6)
	Inside MSB	38	121.1	118.2	-2.9 (-6.2, 0.5)
	Outside Afghan	17	121.6	120.2	-1.4 (-5.5, 2.6)
	Missing Roles	64	120.7	121.7	1.0 (-1.6, 3.5)
Duty	Regular	368	121.5	120.8	-0.7 (-1.7, 0.3)
	Reservist	15	123.9	128.1	4.2 (-1.8, 10.1)
	Missing Duty	13	118.7	117.2	-1.5 (-5.9, 3.0)
Prior Deployments	No Prior Deployments	93	118.3	118.4	0.1 (-1.5, 1.8)
	1 - 2 Prior Deployments	146	122.2	121.7	-0.5 (-2.1, 1.0)
	3 - 4 Prior Deployments	52	121.9	122.5	0.6 (-2.3, 3.6)
	5+ Prior Deployments	42	128.6	125.1	-3.5 (-6.9, -0.2)
	Missing No. Prior Deployments	63	119.4	119.1	-0.3 (-2.8, 2.2)

Table 12.13: Change in mean diastolic blood pressure for respondents completing both pre- and post-deployment physical test

Characteristics	Sub groups	Pre-Post Deployment	Pre Deployment	Post Deployment	Change
		N	Mean	Mean	mean (CI)
Total Sample		396	66.5	68.1	1.6 (0.8, 2.4)
Gender	Female	5	66.4	61.9	-4.5 (-12.1, 3.2)
	Male	391	66.5	68.2	1.7 (0.9, 2.5)
Age	16-24	187	64.1	65.2	1.1 (-0.1, 2.4)
	25-34	152	66.9	69.1	2.2 (1.0, 3.4)
	35-44	47	73.6	74.3	0.7 (-2.1, 3.5)
	45-54	10	72.1	76.1	4.0 (0.2, 7.8)
Service	Navy	18	69.4	71.8	2.4 (-1.2, 6.1)
	Army	378	66.4	67.9	1.5 (0.7, 2.3)
Rank	Officer	18	68.1	69.6	1.5 (-2.5, 5.6)
	NCO	129	69.2	70.4	1.2 (-0.2, 2.6)
	Other ranks	249	65.0	66.8	1.8 (0.8, 2.8)
Locations	In Country	315	66.5	68.0	1.5 (0.6, 2.4)
	Out Country	17	69.1	71.9	2.8 (-0.9, 6.6)
	Missing Location	64	65.8	67.4	1.6 (-0.8, 4.0)
Roles	Combat Afghan & Outside MSB	277	66.1	67.6	1.5 (0.6, 2.5)
	Inside MSB	38	69.6	70.8	1.2 (-1.3, 3.7)
	Outside Afghan	17	69.1	71.9	2.8 (-0.9, 6.6)
	Missing Roles	64	65.8	67.4	1.6 (-0.8, 4.0)
Duty	Regular	368	66.3	68.1	1.8 (1.0, 2.6)
	Reservist	15	73.6	72.7	-0.9 (-6.8, 5.0)
	Missing Duty	13	64.6	62.7	-1.9 (-7.3, 3.5)
Prior Deployments	No Prior Deployments	93	63.8	65.9	2.1 (0.5, 3.7)
	1 - 2 Prior Deployments	146	66.4	67.6	1.2 (-0.1, 2.5)
	3 - 4 Prior Deployments	52	67.0	70.2	3.2 (1.1, 5.2)
	5+ Prior Deployments	42	73.1	72.8	-0.3 (-2.8, 2.2)
	Missing No. Prior Deployments	63	65.8	67.4	1.6 (-0.8, 3.9)

Table 12.15: Percentage of respondents who completed both pre- and post-deployment physical test, who changed blood pressure categories between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment N	No Change %	Increase %	Decrease %
Total Sample		396	53.3%	22.0%	24.7%
Gender	Female	5	100.0%	0.0%	0.0%
	Male	391	52.7%	22.2%	25.1%
Age	16-24	187	53.5%	20.3%	26.2%
	25-34	152	59.2%	24.3%	16.5%
	35-44	47	38.3%	23.4%	38.3%
	45-54	10	30.0%	10.0%	60.0%
Service	Navy	18	27.8%	27.8%	44.4%
	Army	378	54.5%	21.7%	23.8%
Rank	Officer	18	44.5%	22.2%	33.3%
	NCO	129	56.6%	20.9%	22.5%
	Other ranks	249	52.2%	22.5%	25.3%
Locations	In Country	315	54.9%	21.3%	23.8%
	Out Country	17	29.4%	29.4%	41.2%
	Missing Location	64	51.6%	23.4%	25.0%
Roles	Combat Afghan & Outside MSB	277	54.2%	22.0%	23.8%
	Inside MSB	38	60.5%	15.8%	23.7%
	Outside Afghan	17	29.4%	29.4%	41.2%
	Missing Roles	64	51.6%	23.4%	25.0%
Duty	Regular	368	53.0%	22.0%	25.0%
	Reservist	15	40.0%	33.3%	26.7%
	Missing Duty	13	76.9%	7.7%	15.4%
Prior Deployments	No Prior Deployments	93	58.0%	18.3%	23.7%
	1 - 2 Prior Deployments	146	52.7%	23.3%	24.0%
	3 - 4 Prior Deployments	52	48.1%	32.7%	19.2%
	5+ Prior Deployments	42	45.2%	16.7%	38.1%
	Missing No. Prior Deployments	63	57.1%	19.1%	23.8%

*Note that where there are negative numbers, these represent a decrease in proportion for that category

Table 12.16 Comparison between cardiovascular fitness as measured by the Queens College Step Test for respondents completing only pre-deployment and respondents completing both pre- and post-deployment

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference
			Mean at Pre		Mean at Pre	Mean (CI)
Total Sample		244	125.3	348	124.9	-0.3 (-3.2, 2.5)
Gender	Female	7	133.7	4	151.0	17.3 (-7.7, 42.3)
	Male	237	125.0	344	124.6	-0.4 (-3.2, 2.5)
Age	16-24	84	126.9	164	125.7	-1.2 (-5.5, 3.1)
	25-34	126	123.5	137	123.9	0.4 (-4.0, 4.8)
	35-44	29	126.8	38	124.3	-2.5 (-10.8, 6.0)
	45-54	5	133.6	9	128.7	-4.9 (-30.9, 21.1)
Service	Navy	14	144.1	17	140.7	-3.4 (-13.7, 6.9)
	Army	227	124.1	331	124.1	0.0 (-2.9, 2.9)
Rank	Officer	29	123.2	18	123.4	0.2 (-10.6, 11.0)
	NCO	95	128.1	107	125.5	-2.4 (-7.1, 2.0)
	Other ranks	120	123.5	223	124.7	1.2 (-2.9, 5.3)
Duty	Regular	206	126.1	325	125.2	-0.9 (-4.0, 2.2)
	Reservist	21	119.1	13	120.6	1.5 (-8.3, 11.3)
	Missing Duty	17	122.0	10	121.3	-0.7 (-11.3, 9.9)
Prior Deployments	No Prior Deployments	49	126.1	80	126.6	0.5 (-6.0, 6.9)
	1 - 2 Prior Deployments	81	125.3	134	125.1	-0.2 (-4.8, 4.3)
	3 - 4 Prior Deployments	36	127.0	46	122.0	-5.0 (-13.4, 3.4)
	5+ Prior Deployments	33	121.3	37	121.9	0.6 (-8.1, 9.2)
	Missing No. Prior Deployments	45	125.6	51	126.7	1.1 (-5.5, 7.8)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 12.17: Change in cardiovascular fitness as measured by the Queens College Step Test for respondents completing both pre- and post-deployment physical test

Characteristics	Sub groups	Pre-Post Deployment	Pre Deployment	Post Deployment	Change
		N	Mean	Mean	mean (CI)
Total Sample		348	124.9	142.1	17.2 (15.5, 18.9)
Gender	Female	4	151.0	162.5	11.5 (-2.3, 25.3)
	Male	344	124.6	141.9	17.3 (15.6, 18.9)
Age	16-24	164	125.7	143.9	18.2 (15.6, 20.8)
	25-34	137	123.9	141.2	17.3 (14.8, 19.8)
	35-44	38	124.3	137.7	13.3 (8.4, 18.2)
	45-54	9	128.7	141.7	13.0 (6.3, 19.7)
Service	Navy	17	140.7	139.8	-0.9 (-9.3, 7.6)
	Army	331	124.1	142.2	18.1 (16.5, 19.8)
Rank	Officer	18	123.4	142.1	18.7 (9.9, 27.5)
	NCO	107	125.5	140.9	15.4 (12.5, 18.2)
	Other ranks	223	124.7	142.7	18.0 (15.9, 20.1)
Locations	In Country	284	124.4	142.8	18.4 (16.7, 20.0)
	Out Country	16	141.0	140.2	-0.8 (-9.9, 8.2)
	Missing Location	48	122.6	138.7	16.1 (10.2, 22.0)
Roles	Combat Afghan & Outside MSB	247	123.8	142.3	18.5 (16.7, 20.3)
	Inside MSB	37	128.2	145.7	17.5 (12.9, 22.2)
	Outside Afghan	16	141.0	140.2	-0.8 (-9.9, 8.2)
	Missing Roles	48	122.6	138.7	16.1 (10.2, 22.0)
Duty	Regular	325	125.2	142.3	17.1 (15.4, 18.8)
	Reservist	13	120.6	142.4	21.8 (13.0, 30.6)
	Missing Duty	10	121.3	135.8	14.5 (0.9, 28.1)
Prior Deployments	No Prior Deployments	80	126.6	144.8	18.2 (14.4, 22.1)
	1 - 2 Prior Deployments	134	125.1	143.7	18.6 (16.0, 21.3)
	3 - 4 Prior Deployments	46	122.0	137.2	15.2 (10.8, 19.7)
	5+ Prior Deployments	37	121.9	135.8	13.9 (9.1, 18.8)
	Missing No. Prior Deploy	51	126.7	142.5	15.8 (11.4, 20.1)

Table 12.19: Changes between pre- and post-deployment in Queen's College Step Test Categories for the pre- and post-deployment sample.

Characteristics	Sub groups	Pre-Post Deployment	No Change %	Increase %	Decrease %
		N			
Total Sample		348	36.5%	59.2%	4.3%
Gender	Female	4	50.0%	50.0%	0.0%
	Male	344	36.3%	59.3%	4.4%
Age	16-24	164	36.6%	59.2%	4.2%
	25-34	137	32.1%	62.8%	5.1%
	35-44	38	50.0%	47.4%	2.6%
	45-54	9	44.4%	55.6%	0.0%
Service	Navy	17	76.4%	11.8%	11.8%
	Army	331	34.4%	61.7%	3.9%
Rank	Officer	18	44.4%	55.6%	0.0%
	NCO	107	40.2%	54.2%	5.6%
	Other ranks	223	34.1%	61.9%	4.0%
Locations	In Country	284	34.8%	62.0%	3.2%
	Out Country	16	75.0%	12.4%	12.6%
	Missing Location	48	33.3%	58.3%	8.4%
Roles	Combat Afghan & Outside MSB	247	35.2%	61.2%	3.6%
	Inside MSB	37	32.5%	67.5%	0.0%
	Outside Afghan	16	75.0%	12.4%	12.6%
	Missing Roles	48	33.3%	58.3%	8.4%
Duty	Regular	325	37.2%	59.1%	3.7%
	Reservist	13	15.4%	76.9%	7.7%
	Missing Duty	10	40.0%	40.0%	20.0%
Prior Deployments	No Prior Deployments	80	36.2%	58.8%	5.0%
	1 - 2 Prior Deployments	134	33.6%	64.2%	2.2%
	3 - 4 Prior Deployments	46	39.1%	56.5%	4.4%
	5+ Prior Deployments	37	43.3%	54.0%	2.7%

	Missing No. Prior Deployments	51	37.2%	53.0%	9.8%
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Table 12.21: Mean (95% CI) waist-to-hip ratio for length of recent deployment.

Length of current deployment (months)	N	Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
≤5 months	89	0.86 (0.85, 0.87)	0.86 (0.85, 0.87)	-0.01 (-0.02, 0.00)
6 or 7 months	161	0.85 (0.84, 0.85)	0.85 (0.84, 0.85)	-0.00 (-0.01, 0.00)
8 months	97	0.84 (0.83, 0.85)	0.85 (0.84, 0.86)	0.00 (-0.00, 0.01)
9-12 months	43	0.85 (0.83, 0.86)	0.84 (0.83, 0.86)	-0.01 (-0.02, 0.01)

p=0.31

Table 12.25: Mean (95% CI) waist-to-hip ratio for each combination of survey time and role on deployment.

Role on recent deployment	N	Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
Combat Afghan & Outside MSB	272	0.85 (0.84, 0.85)	0.84 (0.84, 0.85)	-0.00 (-0.01, 0.00)
Inside MSB	38	0.86 (0.85, 0.88)	0.86 (0.85, 0.88)	-0.00 (-0.02, 0.01)
Outside Afghan	17	0.87 (0.85, 0.89)	0.87 (0.85, 0.90)	0.00 (-0.02, 0.02)

p=0.78

Table 12.26: Mean (95% CI) BMI for each combination of survey time and role on deployment.

Role on recent deployment	N	Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
Combat Afghan & Outside MSB	279	25.97 (25.64, 26.31)	26.57 (26.24, 26.90)	0.60 (0.45, 0.75)
Inside MSB	39	26.38 (25.48, 27.27)	26.66 (25.78, 27.53)	0.28 (-0.12, 0.68)
Outside Afghan	17	27.09 (25.74, 28.45)	27.19 (25.86, 28.51)	0.09 (-0.51, 0.70)

p=0.11

Table 12.27: Proportion of participants in each role on deployment for BP change categories.

Role on recent deployment	N	BP Increase	BP Decrease	BP No change
Combat Afghan & Outside MSB	277	22.0%	23.8%	54.2%
Inside MSB	38	15.8%	23.7%	60.5%
Outside Afghan	17	29.4%	41.2%	29.4%

p=0.30

Table 12.29: Mean (95% CI) waist-to-hip ratio for different numbers of traumatic deployment exposures.

Deployment exposure (category)	N	Pre-deployment (95% CI)	Post-deployment (95% CI)	Change (95% CI)
Low	17	0.88 (0.86, 0.91)	0.87 (0.85, 0.89)	-0.01 (-0.03, 0.01)
Medium	39	0.87 (0.85, 0.88)	0.87 (0.86, 0.89)	0.00 (-0.01, 0.02)
High	105	0.85 (0.84, 0.86)	0.84 (0.83, 0.85)	-0.00 (-0.01, 0.00)
Very High	155	0.84 (0.84, 0.85)	0.84 (0.83, 0.85)	-0.00 (-0.01, 0.00)

p=0.40

Table 12.30: Mean (95% CI) BMI for different numbers of traumatic deployment exposures.

Deployment exposure (category)	N	Pre-deployment (95% CI)	Post-deployment (95% CI)	Change (95% CI)
Low	18	26.79 (25.46, 28.12)	26.69 (25.39, 27.98)	-0.10 (-0.69, 0.48)
Medium	40	26.34 (25.44, 27.23)	26.82 (25.95, 27.69)	0.48 (0.09, 0.88)
High	106	26.07 (25.52, 26.62)	26.62 (26.09, 27.15)	0.55 (0.30, 0.79)
Very High	160	25.98 (25.54, 26.43)	26.56 (26.13, 27.00)	0.58 (0.38, 0.78)

(p=0.19)

Table 12.31: Proportion of participants in each blood pressure change category by number of traumatic deployment exposures

Deployment exposure (category)	N	BP Increase	BP Decrease	BP No change
Low	18	16.7%	44.4%	38.9%
Medium	40	30.0%	25.0%	45.0%
High	104	20.2%	21.2%	58.6%
Very High	159	20.8%	25.8%	53.4%

p=0.37

Table 12.33: Mean (95% CI) change in waist-to-hip ratio for traumatic deployment exposure categories.

Deployment Experiences	Exposed		Unexposed	
	Number (%)	Change WHR (95% CI)	Number (%)	Change WHR (95% CI)
Coming under fire	286 (90.8%)	-0.00 (-0.01, 0.00)	29 (9.2%)	-0.00 (-0.02, 0.01)
Vulnerable situations or fear of events	295 (93.4%)	-0.00 (-0.01, 0.0)	21 (6.6%)	0.00 (-0.02, 0.02)
Casualties among those close to you	271 (86.0%)	-0.00 (-0.01, 0.0)	44 (14.0%)	0.00 (-0.01, 0.01)
Seeing/handling dead bodies	232 (73.6%)	-0.00 (-0.01, 0.0)	83 (26.4%)	0.00 (-0.01, 0.01)
In danger of being killed/injured	247 (78.4%)	-0.00 (-0.01, 0.00)	68 (21.6%)	-0.00 (-0.01, 0.01)
Discharging own weapon	173 (54.9%)	-0.00 (-0.01, 0.00)	142 (45.1%)	-0.00 (-0.01, 0.00)
Unable to respond to a threatening situation	119 (37.9%)	-0.00 (-0.01, 0.00)	195 (62.1%)	-0.00 (-0.01, 0.00)
Human degradation	77 (24.4%)	-0.00 (-0.01, 0.01)	238 (75.6%)	-0.00 (-0.01, 0.00)
Actions resulting in injury or death	46 (14.6%)	0.00 (-0.01, 0.01)	269 (85.4%)	-0.00 (-0.01, 0.01)

Table 12.35: Percentage of respondents in each BP change category, for those who answered Yes vs No to at least one exposure for each experience.

Deployment experiences	Exposed					Not Exposed				
	Yes N	Percentage	BP Increase	BP Decrease	BP No change	No N	Percentage	BP Increase	BP Decrease	BP No change
Coming under fire	290	90.6%	20.3%	24.8%	54.8%	30	9.4%	33.3%	26.7%	40.0%
Vulnerable situations or fear of events	299	93.2%	21.4%	23.8%	54.8%	22	6.8%	22.7%	45.5%	31.8%
Casualties among those close to you	275	85.9%	21.8%	24.7%	53.5%	45	14.1%	20.0%	28.9%	51.1%
In danger of being killed/injured	251	78.4%	21.9%	24.7%	53.4%	69	21.6%	20.3%	27.5%	52.2%
Seeing/handling dead bodies	236	73.7%	21.2%	22.5%	56.4%	84	26.3%	22.6%	33.3%	44.1%
Discharging own weapon	178	55.6%	22.5%	23.6%	53.9%	142	44.4%	20.4%	26.8%	52.8%
Unable to respond to a threatening situation	117	36.7%	22.2%	22.2%	55.6%	202	63.3%	20.8%	27.2%	52.0%
Human degradation	79	24.7%	16.5%	19.0%	64.6%	241	75.3%	23.2%	27.4%	49.4%
Actions resulting in injury or death	47	14.7%	29.8%	19.1%	51.1%	273	85.3%	20.1%	26.4%	53.5%

Table 12.37: Mean (95% CI) waist-to-hip ratio for each combination of survey time and AUDIT change category.

AUDIT change	N	Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
AUDIT Increase	60	0.85 (0.84, 0.86)	0.85 (0.84, 0.86)	-0.00 (-0.01, 0.01)
AUDIT Decrease	36	0.85 (0.84, 0.87)	0.85 (0.83, 0.86)	-0.01 (-0.02, 0.01)
AUDIT no change	194	0.85 (0.84, 0.86)	0.85 (0.84, 0.85)	-0.00 (-0.01, 0.00)

p=0.86

Table 12.38: Mean (95% CI) BMI for each combination of survey time and AUDIT change category.

AUDIT change	N	Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
AUDIT Increase	61	26.15 (25.44, 26.86)	26.55 (25.86, 27.24)	0.40 (0.08, 0.72)
AUDIT Decrease	38	25.52 (24.62, 26.42)	26.11 (25.24, 26.98)	0.59 (0.19, 1.00)
AUDIT no change	198	26.11 (25.72, 26.50)	26.66 (26.28, 27.04)	0.55 (0.37, 0.73)

p=0.68

Table 12.39: Proportion of participants in each AUDIT change category for BP change categories.

AUDIT change	N	BP Increase	BP Decrease	BP No change
AUDIT Increase	61	19.7%	27.9%	52.5%
AUDIT Decrease	37	16.2%	16.2%	67.6%
AUDIT no change	196	22.5%	27.4%	50.5%

p=0.44

Table 12.40: Mean (95% CI) step test score for each combination of survey time and AUDIT change category.

AUDIT change	N	Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
AUDIT Increase	53	124.70 (120.23, 129.17)	145.68 (141.67, 149.69)	20.98 (16.94, 25.02)
AUDIT Decrease	34	123.24 (117.65, 128.82)	140.38 (135.38, 145.38)	17.15 (12.11, 22.19)
AUDIT no change	178	125.89 (123.45, 128.33)	142.19 (140.00, 144.37)	16.29 (14.10, 18.50)

p=0.14

Table 12.41: Mean (95% CI) waist-to-hip ratio for smoking status categories.

Smoking status	N	Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
Smoked pre only	58	0.86 (0.84, 0.87)	0.85 (0.84, 0.87)	-0.00 (-0.01, 0.01)
Smoked post only	55	0.84 (0.82, 0.85)	0.83 (0.82, 0.85)	-0.00 (-0.01, 0.01)
Smoked pre and post	138	0.85 (0.84, 0.86)	0.85 (0.84, 0.86)	0.00 (-0.01, 0.01)

p=0.73

Table 12.42: Mean (95% CI) BMI for smoking status categories.

Smoking status	N	Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
Smoked pre only	58	25.92 (25.21, 26.63)	26.66 (25.97, 27.35)	0.74 (0.39, 1.09)
Smoked post only	57	25.50 (24.78, 26.21)	26.29 (25.59, 26.98)	0.79 (0.44, 1.15)
Smoked pre and post	140	26.44 (25.98, 26.89)	26.82 (26.37, 27.26)	0.38 (0.15, 0.61)

p=0.08

Table 12.43: Proportion of participants in each blood pressure change category by smoking status

Smoking status	N	BP Increase	BP Decrease	BP No change
Smoked pre only	58	32.8%	29.3%	37.9%
Smoked post only	57	17.5%	22.8%	59.7%
Smoked pre and post	138	20.3%	27.5%	52.2%

p=0.15

Table 12.44: Mean (95% CI) step test score for smoking status categories.

Smoking status	N	Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
Smoked pre only	48	124.33 (119.69, 128.97)	140.77 (136.74, 144.80)	16.44 (11.95, 20.92)
Smoked post only	48	124.85 (120.21, 129.49)	144.19 (140.16, 148.22)	19.33 (14.85, 23.82)
Smoked pre and post	125	125.74 (122.86, 128.61)	142.77 (140.27, 145.26)	17.03 (14.25, 19.81)

p=0.62

Table 12.45: Mean (95% CI) waist-to-hip ratio for different smoking behaviour categories.

Smoking behaviour (categories)	N	Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
Did not smoke	29	0.86 (0.84, 0.87)	0.86 (0.84, 0.87)	0.00 (-0.01, 0.02)
Smoked same amount/ less than usual	20	0.85 (0.83, 0.87)	0.86 (0.84, 0.88)	0.01 (-0.01, 0.03)
Smoked more than usual	63	0.86 (0.84, 0.87)	0.85 (0.84, 0.87)	-0.00 (-0.01, 0.01)
Began/restarted smoking	33	0.86 (0.84, 0.87)	0.85 (0.84, 0.87)	-0.00 (-0.02, 0.01)

p=0.81

Table 12.46: Mean (95% CI) BMI for smoking behaviour categories.

Smoking behaviour (categories)	N	Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
Did not smoke	31	26.70 (25.74, 27.65)	27.34 (26.40, 28.29)	0.65 (0.16, 1.14)
Smoked same amount/ less than usual	21	26.54 (25.37, 27.70)	26.86 (25.71, 28.01)	0.33 (-0.27, 0.92)
Smoked more than usual	64	26.18 (25.52, 26.85)	26.91 (26.25, 27.57)	0.73 (0.39, 1.07)
Began/restarted smoking	33	26.63 (25.70, 27.55)	27.06 (26.14, 27.97)	0.43 (-0.04, 0.90)

p=0.59

Table 12.47: Proportion of participants in each BP change category for smoking behaviour categories

Smoking behaviour (categories)	N	BP Increase	BP Decrease	BP No change
Did not smoke	31	16.1%	38.7%	45.2%
Smoked same amount/ less than usual	21	14.3%	19.0%	66.7%
Smoked more than usual	62	19.3%	32.3%	48.4%
Began/restarted smoking	33	39.4%	12.1%	48.5%

p=0.08

Table 12.48: Mean (95% CI) step test score for smoking behaviour categories.

Smoking behaviour (categories)	N	Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
Did not smoke	29	125.45 (120.05, 130.85)	138.62 (133.57, 143.67)	13.17 (7.84, 18.50)
Smoked same amount/ less than usual	15	123.13 (115.62, 130.64)	145.93 (138.91, 152.95)	22.80 (15.39, 30.21)
Smoked more than usual	61	127.16 (123.44, 130.89)	144.82 (141.34, 148.30)	17.66 (13.98, 21.33)
Began/restarted smoking	28	121.86 (116.36, 127.35)	142.89 (137.75, 148.03)	21.04 (15.61, 26.46)

p=0.11

Table 12.49: Mean (95% CI) waist-to-hip ratio for each co-morbidity category.

Co-morbid categories (Post Deployment)	N	Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
No Psychological Conditions	145	0.85 (0.85, 0.86)	0.85 (0.84, 0.86)	-0.00 (-0.01, 0.01)
One Psychological Condition	105	0.85 (0.84, 0.86)	0.84 (0.83, 0.85)	-0.01 (-0.02, 0.00)
Two Psychological Conditions	49	0.84 (0.83, 0.86)	0.84 (0.83, 0.86)	-0.00 (-0.01, 0.01)
Three Psychological Conditions	26	0.84 (0.83, 0.86)	0.85 (0.83, 0.87)	0.01 (-0.01, 0.02)

p=0.26

Table 12.50: Mean (95% CI) BMI for each co-morbidity category.

Co-morbid categories (Post Deployment)	N	Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
No Psychological Conditions	151	25.82 (25.37, 26.28)	26.35 (25.91, 26.80)	0.53 (0.33, 0.73)
One Psychological Condition	106	26.39 (25.84, 26.93)	26.88 (26.35, 27.41)	0.49 (0.25, 0.74)
Two Psychological Conditions	49	25.97 (25.17, 26.77)	26.52 (25.74, 27.30)	0.55 (0.19, 0.91)
Three Psychological Conditions	27	26.38 (25.30, 27.46)	27.07 (26.02, 28.12)	0.69 (0.20, 1.17)

p=0.92

Table 12.51: Proportion of participants in each BP change category co-morbidity category

Co-morbid categories (Post Deployment)	N	BP Increase	BP Decrease	BP No change
No Psychological Conditions	149	22.2%	20.1%	57.7%
One Psychological Condition	106	23.6%	28.3%	48.1%
Two Psychological Conditions	48	16.7%	37.5%	45.8%
Three Psychological Conditions	27	22.2%	14.8%	63.0%

p=0.20

Table 12.52: Mean (95% CI) step test score for each co-morbidity category.

Co-morbid categories (Post Deployment)	N	Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
No Psychological Conditions	136	124.90 (122.12, 127.67)	141.22 (138.78, 143.66)	16.32 (13.80, 18.85)
One Psychological Condition	98	125.24 (121.98, 128.51)	143.34 (140.46, 146.21)	18.09 (15.12, 21.07)
Two Psychological Conditions	40	126.50 (121.38, 131.62)	145.32 (140.83, 149.82)	18.83 (14.17, 23.48)
Three Psychological Conditions	24	125.67 (119.06, 132.27)	143.67 (137.86, 149.48)	18.00 (11.98, 24.02)

p=0.73

Appendix T

Chapter Thirteen

Chapter Twelve – Respiratory Health

Table 13.1: Comparison pre-deployment FEV1 mean scores for responders who only completed pre-deployment and those who completed both pre- and post-deployment spirometry

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment		Pre Post Deployment Sample N	Pre Post Deployment		Difference	
			Mean at Pre	% FEV1 at Pre		Mean at Pre	% FEV1 at Pre	Mean (CI)	mean % FEV1 (CI)
Total Sample		156	4.4	94.7	202	4.4	93.5	0.0 (-0.2, 0.1)	-1.2 (-3.4, 0.9)
Gender	Female	4	3.5	98.7	3	3.5	98.6	0.0 (-0.5, 0.6)	-0.1 (-9.7, 9.5)
	Male	152	4.4	94.6	199	4.4	93.4	0.0 (-0.2, 0.1)	-1.2 (-3.4, 1.0)
Age	16-24	49	4.5	94.4	86	4.5	93.3	0.0 (-0.3, 0.2)	-1.1 (-5.0, 2.8)
	25-34	88	4.4	95.0	86	4.4	94.0	0.0 (-0.2, 0.2)	-1.0 (-4.1, 2.0)
	35-44	15	4.1	95.0	26	4.0	92.6	-0.1 (-0.4, 0.3)	-2.4 (-8.9, 4.0)
	45-54	4	3.7	91.8	4	3.8	92.6	0.1 (-0.8, 0.9)	0.8 (-14.0, 15.7)
Service	Navy	9	4.1	89.6	9	4.2	90.6	0.1 (-0.5, 0.7)	1.0 (-9.1, 11.2)
	Army	145	4.4	95.1	193	4.4	93.6	0.0 (-0.2, 0.1)	-1.5 (-3.7, 0.8)
Rank	Officer	17	4.3	91.9	16	4.3	94.0	0.0 (-0.3, 0.3)	2.1 (-3.8, 8.0)
	NCO	65	4.4	95.6	72	4.3	94.6	-0.1 (-0.3, 0.2)	-1.0 (-4.6, 2.7)
	Other ranks	74	4.4	94.6	114	4.4	92.7	0.0 (-0.2, 0.2)	-1.9 (-4.9, 1.1)
Duty	Regular	128	4.4	94.4	190	4.4	93.7	0.0 (-0.2, 0.1)	-0.7 (-3.1, 1.7)
	Reservist	14	4.3	97.8	8	3.8	86.7	-0.5 (-1.1, 0.1)	-11.1 (-21.9, -0.2)
	Missing Duty	14	4.5	94.5	4	4.5	95.9	0.0 (-1.6, 1.6)	1.4 (-24.4, 27.2)
Prior Deployments	No Prior Deployments	27	4.2	89.3	44	4.3	91.9	0.1 (-0.2, 0.4)	2.6 (-2.5, 7.7)
	1 - 2 Prior Deployments	49	4.4	96.1	73	4.4	93.8	0.0 (-0.3, 0.2)	-2.3 (-6.5, 1.8)
	3 - 4 Prior Deployments	25	4.5	98.1	31	4.5	96.8	0.0 (-0.4, 0.3)	-1.3 (-5.7, 3.1)
	5+ Prior Deployments	22	4.4	96.8	22	4.0	90.7	-0.4 (-0.6, 0.0)	-6.1 (-11.7, -0.6)
	Missing No. Prior Deployments	33	4.4	93.2	32	4.4	93.8	0.0 (-0.3, 0.3)	0.6 (-4.3, 5.5)

Table 13.2: Summary of FEV1 mean scores for responders who completed both the pre- and post deployment spirometry

Characteristics	Sub groups	Pre-Post Deployment	Pre Deployment		Post Deployment		Change	
		N	Mean	% FEV1	Mean	% FEV1	mean (CI)	mean % FEV1 (CI)
Total Sample		202	4.4	93.5	4.3	91.7	-0.1 (-0.1, 0.0)	-1.8 (-2.8, -0.8)
Gender	Female	3	3.5	98.6	3.3	91.4	-0.2 (-0.8, 0.3)	-7.2 (-22.4, 8.0)
	Male	199	4.4	93.4	4.3	91.7	-0.1 (-0.1, 0.0)	-1.7 (-2.7, -0.7)
Age	16-24	86	4.5	93.3	4.4	92.1	-0.1 (-0.1, 0.0)	-1.2 (-2.7, 0.3)
	25-34	86	4.3	94.0	4.2	91.5	-0.1 (-0.2, 0.0)	-2.5 (-4.0, -0.9)
	35-44	26	4.0	92.6	4.0	91.6	0.0 (-0.2, 0.1)	-1.0 (-3.8, 1.9)
	45-54	4	3.8	92.6	3.6	88.9	-0.2 (-0.6, 0.3)	-3.7 (-14.5, 7.2)
Service	Navy	9	4.2	90.6	4.1	88.4	-0.1 (-0.2, 0.0)	-2.2 (-5.1, 0.6)
	Army	193	4.4	93.6	4.3	91.9	-0.1 (-0.1, 0.0)	-1.7 (-2.8, -0.7)
Rank	Officer	16	4.3	94.0	4.2	91.0	-0.1 (-0.3, 0.1)	-3.0 (-7.1, 1.1)
	NCO	72	4.3	94.6	4.2	92.4	-0.1 (-0.2, 0.0)	-2.2 (-3.7, -0.6)
	Other ranks	114	4.4	92.7	4.3	91.4	-0.1 (-0.1, 0.0)	-1.3 (-2.7, 0.1)
Locations	In Country	172	4.4	94.0	4.3	92.2	-0.1 (-0.1, 0.0)	-1.8 (-2.9, -0.6)
	Out Country	9	4.2	90.6	4.1	88.4	-0.1 (-0.2, 0.0)	-2.2 (-5.1, 0.6)
	Missing Location	21	4.3	91.0	4.2	89.7	-0.1 (-0.2, 0.1)	-1.3 (-3.8, 1.0)
Roles	Combat & Outside MSB	150	4.4	93.7	4.3	92.0	-0.1 (-0.1, 0.0)	-1.7 (-2.9, -0.5)
	Inside MSB	22	4.1	95.9	4.0	93.6	-0.1 (-0.2, 0.0)	-2.3 (-5.1, 0.4)
	Outside Afghan	9	4.2	90.6	4.1	88.4	-0.1 (-0.2, 0.0)	-2.2 (-5.1, 0.6)
	Missing Roles	21	4.3	91.0	4.2	89.7	-0.1 (-0.2, 0.1)	-1.3 (-3.8, 1.0)
Duty	Regular	190	4.4	93.7	4.3	91.8	-0.1 (-0.1, 0.0)	-1.9 (-3.0, -0.9)
	Reservist	8	3.8	86.7	3.8	88.7	0.0 (-0.1, 0.2)	2.0 (-1.4, 5.4)
	Missing Duty	4	4.5	95.9	4.4	94.6	-0.1 (-0.4, 0.3)	-1.3 (-8.5, 5.8)
Prior Deployments	No Prior Deployments	44	4.3	91.9	4.2	90.2	-0.1 (-0.2, 0.1)	-1.7 (-4.2, 0.9)
	1 - 2 Prior Deployments	73	4.4	93.8	4.4	92.5	0.0 (-0.1, 0.0)	-1.3 (-2.8, 0.2)
	3 - 4 Prior Deployments	31	4.5	96.8	4.3	93.2	-0.2 (-0.3, -0.1)	-3.6 (-6.1, -1.0)
	5+ Prior Deployments	22	4.0	90.7	3.9	88.4	-0.1 (-0.3, 0.1)	-2.3 (-6.1, 1.3)

	Missing No. Prior Deployments	32	4.4	93.8	4.4	93.0	0.0 (-0.2, 0.1)	-0.8 (-3.1, 1.5)
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Table 13.3: Summary of FEV1 categories for responders who completed both the pre- and post deployment spirometry

Characteristics	Sub groups	Pre-Post Deployment N	Normal %	Abnormal at Pre %	Abnormal at Post %	Abnormal at Both %
Total Sample		202	83.2%	3.5%	7.4%	5.9%
Gender	Female	3	100.0%	0.0%	0.0%	0.0%
	Male	199	82.9%	3.5%	7.6%	6.0%
Age	16-24	86	86.1%	3.5%	8.1%	2.3%
	25-34	86	83.7%	1.2%	7.0%	8.1%
	35-44	26	73.1%	11.5%	3.9%	11.5%
	45-54	4	75.0%	0.0%	25.0%	0.0%
Service	Navy	9	88.9%	0.0%	0.0%	11.1%
	Army	193	82.9%	3.6%	7.8%	5.7%
Rank	Officer	16	87.5%	0.0%	6.2%	6.3%
	NCO	72	84.7%	2.8%	4.2%	8.3%
	Other ranks	114	81.6%	4.4%	9.6%	4.4%
Locations	In Country	172	84.3%	3.5%	8.1%	4.1%
	Out Country	9	88.9%	0.0%	0.0%	11.1%
	Missing Location	21	71.4%	4.8%	4.8%	19.0%
Roles	Combat Afghan & Outside MSB	150	84.7%	3.3%	8.0%	4.0%
	Inside MSB	22	81.8%	4.6%	9.1%	4.5%
	Outside Afghan	9	88.9%	0.0%	0.0%	11.1%
	Missing Roles	21	71.4%	4.8%	4.8%	19.0%
Duty	Regular	190	84.2%	3.2%	7.9%	4.7%
	Reservist	8	62.5%	12.5%	0.0%	25.0%
	Missing Duty	4	75.0%	0.0%	0.0%	25.0%
Prior Deployments	No Prior Deployments	44	75.0%	6.8%	9.1%	9.1%
	1 - 2 Prior Deployments	73	87.7%	0.0%	6.8%	5.5%
	3 - 4 Prior Deployments	31	90.3%	0.0%	6.5%	3.2%
	5+ Prior Deployments	22	72.7%	9.1%	9.1%	9.1%
	Missing No. Prior Deployments	32	84.3%	6.3%	6.3%	3.1%

Table 13.4: Comparison pre-deployment FVC mean scores for responders who only completed pre-deployment and those who completed both pre- and post-deployment spirometry

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment		Pre Post Deployment Sample N	Pre Post Deployment		Difference	
			Mean at Pre	% FVC at Pre		Mean at Pre	% FVC at Pre	Mean (CI)	Mean % FVC (CI)
Total Sample		156	5.5	118.1	202	5.4	116.6	-0.1 (-0.2, 0.1)	-1.5 (-4.0, 1.0)
Gender	Female	4	4.1	117.2	3	4.3	119.7	0.2 (-0.5, 0.8)	2.5 (-15.0, 20.0)
	Male	152	5.5	118.1	199	5.5	116.5	0.0 (-0.2, 0.1)	-1.6 (-4.1, 1.0)
Age	16-24	49	5.6	116.6	86	5.4	113.6	-0.2 (-0.4, 0.1)	-3.0 (-7.5, 1.5)
	25-34	88	5.5	118.7	86	5.5	118.9	0.0 (-0.2, 0.2)	0.2 (-3.2, 3.6)
	35-44	15	5.2	119.6	26	5.2	118.7	0.0 (-0.5, 0.5)	-0.9 (-9.2, 7.4)
	45-54	4	4.7	117.5	4	4.8	117.4	0.1 (-1.0, 1.1)	-0.1 (-16.9, 16.7)
Service	Navy	9	5.1	110.8	9	5.2	111.3	0.1 (-0.7, 0.9)	0.5 (-12.6, 13.6)
	Army	145	5.5	118.4	193	5.4	116.8	-0.1 (-0.2, 0.1)	-1.6 (-4.2, 0.9)
Rank	Officer	17	5.4	113.5	16	5.4	117.6	0.0 (-0.4, 0.5)	4.1 (-2.8, 11.1)
	NCO	65	5.5	120.5	72	5.5	120.1	0.0 (-0.3, 0.2)	-0.4 (-4.5, 3.8)
	Other ranks	74	5.5	117.0	114	5.4	114.2	-0.1 (-0.3, 0.2)	-2.8 (-6.3, 0.6)
Duty	Regular	128	5.5	117.6	190	5.5	116.7	0.0 (-0.2, 0.2)	-0.9 (-3.7, 1.8)
	Reservist	14	5.3	121.3	8	4.8	111.6	-0.5 (-1.3, 0.3)	-9.7 (-22.7, 3.3)
	Missing Duty	14	5.6	119.1	4	5.6	121.5	0.0 (-1.0, 1.0)	2.4 (-14.0, 18.8)
Prior Deployments	No Prior Deployments	27	5.2	111.0	44	5.3	113.8	0.1 (-0.3, 0.5)	2.8 (-3.2, 8.8)
	1 - 2 Prior Deployments	49	5.5	119.7	73	5.5	116.4	0.0 (-0.3, 0.3)	-3.3 (-7.9, 1.2)
	3 - 4 Prior Deployments	25	5.6	121.0	31	5.6	121.0	0.0 (-0.4, 0.4)	0.0 (-5.1, 5.2)
	5+ Prior Deployments	22	5.5	122.3	22	5.1	114.9	-0.4 (-0.8, 0.0)	-7.4 (-13.7, -0.8)
	Missing No. Prior Deployments	33	5.5	116.5	32	5.5	117.6	0.0 (-0.3, 0.3)	1.1 (-4.5, 6.8)

Table 13.5: Summary of FEV1 mean scores for responders who completed both the pre- and post deployment spirometry

Characteristics	Sub groups	Pre-Post Deployment	Pre Deployment		Post Deployment		Change	
		N	Mean	% FVC	Mean	% FVC	mean (CI)	mean % FVC (CI)
Total Sample		202	5.4	116.6	5.3	114.9	-0.1 (-0.1, 0.0)	-1.7 (-2.9, -0.5)
Gender	Female	3	4.3	119.7	4.0	111.6	-0.3 (-1.1, 0.5)	-8.1 (-30.9, 14.8)
	Male	199	5.5	116.5	5.4	114.9	-0.1 (-0.1, 0.0)	-1.6 (-2.8, -0.4)
Age	16-24	86	5.4	113.6	5.4	112.7	0.0 (-0.1, 0.1)	-0.9 (-2.7, 1.0)
	25-34	86	5.5	118.9	5.4	116.5	-0.1 (-0.2, 0.0)	-2.4 (-4.1, -0.6)
	35-44	26	5.2	118.7	5.1	116.6	-0.1 (-0.3, 0.1)	-2.1 (-6.6, 2.4)
	45-54	4	4.8	117.4	4.7	114.8	-0.1 (-0.4, 0.2)	-2.6 (-10.2, 4.9)
Service	Navy	9	5.2	111.3	5.0	106.4	-0.2 (-0.4, 0.0)	-4.9 (-8.9, -0.9)
	Army	193	5.4	116.8	5.4	115.3	0.0 (-0.1, 0.0)	-1.5 (-2.8, -0.3)
Rank	Officer	16	5.4	117.6	5.2	112.7	-0.2 (-0.5, 0.0)	-4.9 (-9.9, 0.0)
	NCO	72	5.5	120.1	5.4	117.8	-0.1 (-0.2, 0.0)	-2.3 (-4.4, -0.2)
	Other ranks	114	5.4	114.2	5.4	113.3	0.0 (-0.1, 0.0)	-0.9 (-2.4, 0.7)
Locations	In Country	172	5.4	117.0	5.3	115.4	-0.1 (-0.1, 0.0)	-1.6 (-3.0, -0.3)
	Out Country	9	5.2	111.3	5.0	106.4	-0.2 (-0.4, 0.0)	-4.9 (-8.9, -0.9)
	Missing Location	21	5.4	115.5	5.4	114.7	0.0 (-0.2, 0.1)	-0.8 (-3.1, 1.6)
Roles	Combat & Outside MSB	150	5.5	116.2	5.4	114.9	-0.1 (-0.1, 0.0)	-1.3 (-2.7, 0.2)
	Inside MSB	22	5.3	122.6	5.1	118.6	-0.2 (-0.4, 0.0)	-4.0 (-8.6, 0.5)
	Outside Afghan	9	5.2	111.3	5.0	106.4	-0.2 (-0.4, 0.0)	-4.9 (-8.9, -0.9)
	Missing Roles	21	5.4	115.5	5.4	114.7	0.0 (-0.2, 0.1)	-0.8 (-3.1, 1.6)
Duty	Regular	190	5.5	116.7	5.4	114.9	-0.1 (-0.2, 0.0)	-1.8 (-3.1, -0.6)
	Reservist	8	4.8	111.6	4.9	112.8	0.1 (-0.2, 0.3)	1.2 (-4.0, 6.4)
	Missing Duty	4	5.6	121.5	5.5	120.1	-0.1 (-0.5, 0.3)	-1.4 (-9.5, 6.6)
Prior Deployments	No Prior Deployments	44	5.3	113.8	5.2	111.5	-0.1 (-0.3, 0.1)	-2.3 (-5.9, 1.3)
	1 - 2 Prior Deployments	73	5.5	116.4	5.5	115.5	0.0 (-0.1, 0.0)	-0.9 (-2.5, 0.8)
	3 - 4 Prior Deployments	31	5.6	121.0	5.5	118.3	-0.1 (-0.3, 0.0)	-2.7 (-5.4, -0.1)
	5+ Prior Deployments	22	5.1	114.9	5.0	112.1	-0.1 (-0.3, 0.1)	-2.8 (-7.1, 1.4)

	Missing No. Prior Deployments	32	5.5	117.6	5.5	116.7	0.0 (-0.2, 0.1)	-0.9 (-3.8, 2.0)
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Table 13.6: Summary of FVC categories for responders who completed both the pre- and post deployment spirometry

Characteristics	Sub groups	Pre-Post Deployment N	Normal %	Abnormal at Pre %	Abnormal at Post %	Abnormal at Both %
Total Sample		202	99.5%	0.0%	0.5%	0.0%
Gender	Female	3	100.0%	0.0%	0.0%	0.0%
	Male	199	99.5%	0.0%	0.5%	0.0%
Age	16-24	86	98.8%	0.0%	1.2%	0.0%
	25-34	86	100.0%	0.0%	0.0%	0.0%
	35-44	26	100.0%	0.0%	0.0%	0.0%
	45-54	4	100.0%	0.0%	0.0%	0.0%
Service	Navy	9	100.0%	0.0%	0.0%	0.0%
	Army	193	99.5%	0.0%	0.5%	0.0%
Rank	Officer	16	100.0%	0.0%	0.0%	0.0%
	NCO	72	100.0%	0.0%	0.0%	0.0%
	Other ranks	114	99.1%	0.0%	0.9%	0.0%
Locations	In Country	172	99.4%	0.0%	0.6%	0.0%
	Out Country	9	100.0%	0.0%	0.0%	0.0%
	Missing Location	21	100.0%	0.0%	0.0%	0.0%
Roles	Combat Afghan & Outside MSB	150	99.3%	0.0%	0.7%	0.0%
	Inside MSB	22	100.0%	0.0%	0.0%	0.0%
	Outside Afghan	9	100.0%	0.0%	0.0%	0.0%
	Missing Roles	21	100.0%	0.0%	0.0%	0.0%
Duty	Regular	190	99.5%	0.0%	0.5%	0.0%
	Reservist	8	100.0%	0.0%	0.0%	0.0%
	Missing Duty	4	100.0%	0.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	44	100.0%	0.0%	0.0%	0.0%
	1 - 2 Prior Deployments	73	100.0%	0.0%	0.0%	0.0%
	3 - 4 Prior Deployments	31	100.0%	0.0%	0.0%	0.0%
	5+ Prior Deployments	22	100.0%	0.0%	0.0%	0.0%

	Missing No. Prior Deployments	32	96.9%	0.0%	3.1%	0.0%
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Table 13.7: Comparison pre-deployment FEV1/FVC Ratio mean scores for responders who only completed pre-deployment and those who completed both pre- and post-deployment spirometry

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment		Pre Post Deployment Sample N	Pre Post Deployment		Difference	
			Mean at Pre	% FEV1/FVC Ratio		Mean at Pre	% FEV1/FVC Ratio	Mean (CI)	mean % FEV1/FVC Ratio (CI)
Total Sample		156	80.3	95.9	202	80.4	95.9	0.1 (-1.2, 1.3)	0.0 (-1.5, 1.3)
Gender	Female	4	84.5	97.4	3	82.5	96.0	-2.0 (-9.2, 5.2)	-1.4 (-8.1, 5.3)
	Male	152	80.2	95.9	199	80.4	95.9	0.2 (-1.1, 1.4)	0.0 (-1.5, 1.4)
Age	16-24	49	81.2	95.1	86	82.3	96.5	1.1 (-1.0, 3.3)	1.4 (-1.0, 3.8)
	25-34	88	80.1	95.9	86	79.2	94.9	-0.9 (-2.6, 0.8)	-1.0 (-3.0, 1.0)
	35-44	15	79.6	98.0	26	78.2	96.4	-1.4 (-4.9, 2.0)	-1.6 (-5.6, 2.4)
	45-54	4	78.1	98.5	4	78.8	99.3	0.7 (-7.2, 8.6)	0.8 (-8.9, 10.5)
Service	Navy	9	80.8	96.5	9	81.9	98.4	1.1 (-5.0, 7.2)	1.9 (-5.1, 8.9)
	Army	145	80.4	95.9	193	80.3	95.7	-0.1 (-1.3, 1.2)	-0.2 (-1.7, 1.2)
Rank	Officer	17	81.0	96.7	16	80.1	96.5	-0.9 (-5.0, 3.3)	-0.2 (-5.2, 4.7)
	NCO	65	79.4	95.6	72	78.9	95.2	-0.5 (-2.3, 1.4)	-0.4 (-2.6, 1.7)
	Other ranks	74	81.0	96.0	114	81.4	96.2	0.4 (-1.5, 2.1)	0.2 (-1.8, 2.3)
Duty	Regular	128	80.4	95.9	190	80.5	96.0	0.1 (-1.2, 1.5)	0.1 (-1.5, 1.7)
	Reservist	14	80.7	97.2	8	77.9	93.4	-2.8 (-8.8, 3.1)	-3.8 (-9.5, 2.0)
	Missing Duty	14	79.4	94.6	4	78.8	93.7	-0.6 (-17.6, 16.5)	-0.9 (-19.2, 17.4)
Prior Deployments	No Prior Deployments	27	80.7	94.9	44	81.0	95.8	0.3 (-2.9, 3.6)	0.9 (-2.8, 4.5)
	1 - 2 Prior Deployments	49	80.4	95.8	73	80.7	95.7	0.3 (-1.8, 2.5)	-0.1 (-2.7, 2.5)
	3 - 4 Prior Deployments	25	81.2	97.7	31	80.1	96.3	-1.1 (-4.1, 1.9)	-1.4 (-4.9, 2.2)
	5+ Prior Deployments	22	79.3	96.1	22	79.1	96.7	-0.2 (-3.6, 3.1)	0.6 (-3.2, 4.4)
	Missing No. Prior Deployments	33	80.1	95.4	32	80.0	95.2	-0.1 (-3.0, 2.8)	-0.2 (-3.3, 3.0)

Table 13.8: Summary of FEV1/FVC means for responders who completed both the pre- and post deployment spirometry

Characteristics	Sub groups	Pre-Post Deployment	Pre Deployment		Post Deployment		Change	
		N	Mean	% FEV1/FVC Ratio	Mean	% FEV1/FVC Ratio	mean (CI)	mean % FEV1/FVC Ratio (CI)
Total Sample		202	80.4	95.9	80.0	95.4	-0.4 (-0.8, 0.1)	-0.5 (-1.0, 0.1)
Gender	Female	3	82.5	96.0	82.8	96.4	0.3 (-7.1, 7.8)	0.4 (-8.2, 9.0)
	Male	199	80.4	95.9	80.0	95.4	-0.4 (-0.8, 0.1)	-0.5 (-1.0, 0.1)
Age	16-24	86	82.3	96.5	81.9	96.0	-0.4 (-1.1, 0.3)	-0.5 (-1.3, 0.4)
	25-34	86	79.2	94.9	78.6	94.2	-0.6 (-1.2, 0.1)	-0.7 (-1.5, 0.1)
	35-44	26	78.2	96.4	78.8	97.1	0.6 (-0.9, 2.0)	0.7 (-1.1, 2.5)
	45-54	4	78.8	99.3	77.1	97.2	-1.7 (-7.6, 4.2)	-2.1 (-9.6, 5.3)
Service	Navy	9	81.9	98.4	83.4	100.2	1.5 (0.1, 2.8)	1.8 (0.1, 3.4)
	Army	193	80.3	95.7	79.9	95.2	-0.6 (-0.9, 0.0)	-0.5 (-1.1, 0.0)
Rank	Officer	16	80.1	96.5	81.0	97.6	0.9 (-0.2, 2.0)	1.1 (-0.3, 2.5)
	NCO	72	78.9	95.2	78.6	94.8	-0.3 (-1.1, 0.5)	-0.4 (-1.4, 0.6)
	Other ranks	114	81.4	96.2	80.8	95.5	-0.6 (-1.2, 0.0)	-0.7 (-1.4, 0.0)
Locations	In Country	172	80.5	96.0	80.0	95.5	-0.5 (-1.0, 0.0)	-0.5 (-1.1, 0.0)
	Out Country	9	81.9	98.4	83.4	100.2	1.5 (0.1, 2.8)	1.8 (0.1, 3.4)
	Missing Location	21	78.9	93.6	78.4	93.1	-0.5 (-2.1, 1.2)	-0.5 (-2.5, 1.4)
Roles	Combat Afghan & Outside MSB	150	80.8	96.2	80.2	95.4	-0.6 (-1.2, -0.1)	-0.8 (-1.4, -0.1)
	Inside MSB	22	78.5	95.0	79.2	95.8	0.7 (-0.9, 2.3)	0.8 (-1.1, 2.8)
	Outside Afghan	9	81.9	98.4	83.4	100.2	1.5 (0.1, 2.8)	1.8 (0.1, 3.4)
	Missing Roles	21	78.9	93.6	78.4	93.1	-0.5 (-2.1, 1.2)	-0.5 (-2.5, 1.4)
Duty	Regular	190	80.5	96.0	80.1	95.5	-0.4 (-0.9, 0.0)	-0.5 (-1.1, 0.0)
	Reservist	8	77.9	93.4	79.0	94.7	1.1 (0.0, 2.2)	1.3 (0.0, 2.6)
	Missing Duty	4	78.9	93.7	78.9	93.7	0.0 (-3.3, 3.3)	0.0 (-3.9, 3.9)
Prior Deployments	No Prior Deployments	44	81.0	95.8	81.0	95.8	0.0 (-1.1, 1.1)	0.0 (-1.4, 1.3)
	1 - 2 Prior Deployments	73	80.7	95.7	80.2	95.1	-0.5 (-1.2, 0.2)	-0.6 (-1.4, 0.2)

	3 - 4 Prior Deployments	31	80.1	96.3	78.7	94.7	-1.4 (-2.4, -0.3)	-1.6 (-2.9, -0.3)
	5+ Prior Deployments	22	79.1	96.7	79.3	96.9	0.2 (-1.0, 1.3)	0.2 (-1.2, 1.6)
	Missing No. Prior Deployments	32	80.0	95.2	80.0	95.2	0.0 (-1.4, 1.4)	0.0 (-1.7, 1.7)

Table 13.10: Summary of FEV1/FVC categories for responders who completed both the pre- and post deployment spirometry

Characteristics	Sub groups	Pre-Post Deployment N	Normal at Both %	Abnormal at Pre %	Abnormal at Post %	Abnormal at Both %
Total Sample		202	93.5%	2.0%	2.5%	2.0%
Gender	Female	3	100.0%	0.0%	0.0%	0.0%
	Male	199	93.5%	2.0%	2.5%	2.0%
Age	16-24	86	97.7%	0.0%	2.3%	0.0%
	25-34	86	90.7%	2.3%	3.5%	3.5%
	35-44	26	88.5%	7.7%	0.0%	3.8%
	45-54	4	100.0%	0.0%	0.0%	0.0%
Service	Navy	9	88.9%	11.1%	0.0%	0.0%
	Army	193	93.7%	1.6%	2.6%	2.1%
Rank	Officer	16	93.7%	6.3%	0.0%	0.0%
	NCO	72	87.5%	4.1%	4.2%	4.2%
	Other ranks	114	97.3%	0.0%	1.8%	0.9%
Locations	In Country	172	95.3%	1.2%	2.3%	1.2%
	Out Country	9	88.9%	11.1%	0.0%	0.0%
	Missing Location	21	80.9%	4.8%	4.8%	9.5%
Roles	Combat Afghan & Outside MSB	150	96.0%	0.0%	2.7%	1.3%
	Inside MSB	22	90.9%	9.1%	0.0%	0.0%
	Outside Afghan	9	88.9%	11.1%	0.0%	0.0%
	Missing Roles	21	80.9%	4.8%	4.8%	9.5%
Duty	Regular	190	94.2%	2.1%	2.6%	1.1%
	Reservist	8	87.5%	0.0%	0.0%	12.5%
	Missing Duty	4	75.0%	0.0%	0.0%	25.0%
Prior Deployments	No Prior Deployments	44	97.7%	2.3%	0.0%	0.0%
	1 - 2 Prior Deployments	73	94.5%	1.4%	2.7%	1.4%
	3 - 4 Prior Deployments	31	90.3%	0.0%	6.5%	3.2%
	5+ Prior Deployments	22	90.9%	4.6%	0.0%	4.5%

	Missing No. Prior Deployments	32	90.7%	3.1%	3.1%	3.1%
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Table 13.13 Changes in FEV1/FVC and % predicted between pre- and post-deployment and length of current deployment

Length of current deploy (months)	N		Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
≤5 months	48	FEV1/FVC	79.40 (77.78, 81.02)	79.39 (77.83, 80.94)	-0.02 (-0.95, 0.92)
		% predicted	95.64 (93.81, 97.46)	95.63 (93.87, 97.39)	-0.01 (-1.13, 1.11)
6 or 7 months	69	FEV1/FVC	80.07 (78.72, 81.42)	79.67 (78.37, 80.96)	-0.41 (-1.19, 0.37)
		% predicted	95.23 (93.71, 96.76)	94.76 (93.29, 96.23)	-0.47 (-1.40, 0.46)
8 months	59	FEV1/FVC	81.01 (79.55, 82.47)	80.16 (78.76, 81.56)	-0.85 (-1.69, -0.01)
		% predicted	96.53 (94.89, 98.18)	95.51 (93.92, 97.10)	-1.02 (-2.03, -0.01)
9-12 months	26	FEV1/FVC	81.69 (79.49, 83.89)	81.78 (79.67, 83.89)	0.09 (-1.18, 1.36)
		% predicted	96.47 (93.99, 98.95)	96.59 (94.20, 98.99)	0.12 (-1.40, 1.64)

(p=0.51 and p=0.49, respectively)

Table 13.14: Mean (95% CI) FEV1 (and % predicted) change between pre- and post-deployment for number of reported chemical and environmental exposures.

Chemical Exposure (categories)	N		Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
Low	25	FEV1	4.29 (4.06, 4.53)	4.20 (3.96, 4.45)	-0.09 (-0.23, 0.05)
		% predicted	94.45 (90.46, 98.44)	92.32 (88.30, 96.34)	-2.13 (-5.07, 0.81)
Medium	30	FEV1	4.24 (4.03, 4.46)	4.13 (3.91, 4.35)	-0.11 (-0.24, 0.02)
		% predicted	93.17 (89.53, 96.81)	90.93 (87.26, 94.60)	-2.24 (-4.93, 0.44)
High	54	FEV1	4.37 (4.21, 4.53)	4.26 (4.09, 4.42)	-0.12 (-0.22, -0.02)
		% predicted	94.41 (91.70, 97.12)	91.74 (89.01, 94.48)	-2.67 (-4.67, -0.67)
Very High	67	FEV1	4.43 (4.29, 4.58)	4.40 (4.26, 4.55)	-0.03 (-0.11, 0.06)
		% predicted	93.41 (90.98, 95.85)	92.70 (90.24, 95.15)	-0.71 (-2.51, 1.08)

(p=0.51 and p=0.51, respectively)

Table 13.15: Mean (95% CI) FVC (and % predicted) change between pre- and post-deployment for number of reported chemical and environmental exposures.

Chemical Exposure (categories)	N		Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
Low	25	FVC	5.39 (5.10, 5.68)	5.15 (4.86, 5.44)	-0.24 (-0.41, -0.07)
		% predicted	118.35 (113.45, 123.24)	113.06 (108.24, 117.87)	-5.29 (-8.85, -1.73)
Medium	30	FVC	5.19 (4.92, 5.46)	5.09 (4.82, 5.35)	-0.10 (-0.26, 0.06)
		% predicted	114.17 (109.70, 118.64)	112.19 (107.79, 116.58)	-1.98 (-5.23, 1.27)
High	54	FVC	5.42 (5.22, 5.62)	5.34 (5.14, 5.54)	-0.08 (-0.20, 0.03)
		% predicted	116.96 (113.63, 120.29)	115.06 (111.78, 118.34)	-1.90 (-4.32, 0.53)
Very High	67	FVC	5.54 (5.36, 5.72)	5.54 (5.36, 5.72)	0.00 (-0.10, 0.12)
		% predicted	116.79 (113.80, 119.78)	116.71 (113.77, 119.66)	-0.08 (-2.25, 2.10)

(p=0.12 and p=0.11, respectively)

Table 13.17: Mean (95% CI) FEV1 (and % predicted) change between pre- and post-deployment for chemical and environmental exposures.

Chemical and Environmental Exposures	Exposed			Unexposed		
	Number (%)	Change FEV1 (95% CI)	Change FEV1 % Predicted (95% CI)	Number (%)	Change FEV1 Scores (95% CI)	Change FEV1 % Predicted (95% CI)
Smoke from fires	165 (93.75%)	-0.08 (-0.14, -0.03)	-1.83 (-2.97, -0.68)	11 (6.25%)	-0.05 (-0.26, 0.16)	-1.03 (-5.46, 3.40)
Dust storms	161 (91.5%)	-0.08 (-0.13, -0.02)	-1.75 (-2.91, -0.60)	15 (8.5%)	-0.09 (-0.27, 0.09)	-2.00 (-5.80, 1.80)
Inhaled fine dust fibres	162 (92.1%)	-0.09 (-0.14, -0.03)	-1.92 (-3.07, -0.76)	14 (7.9%)	-0.00 (-0.19, 0.19)	-0.15 (-4.07, 3.78)
Others' cigarette smoke	143 (81.3%)	-0.08 (-0.14, -0.02)	-1.73 (-2.96, -0.50)	33 (18.7%)	-0.08 (-0.21, 0.04)	-1.98 (-4.54, -0.58)
Diesel exhaust	167 (96.0%)	-0.08 (-0.13, -0.02)	-1.74 (-2.87, -0.60)	7 (4.0%)	-0.05 (-0.32, 0.23)	-0.98 (-6.54, 4.58)
Aviation, marine or automotive fuel	144 (82.3%)	-0.08 (-0.02)	-1.83 (-3.06, -0.61)	31 (17.7%)	-0.05 (-0.17, 0.08)	-1.19 (-3.82, 1.45)
Aircraft fumes	154 (88.0%)	-0.08 (-0.14, -0.02)	-1.76 (-2.95, -0.58)	21 (12.0%)	-0.06 (-0.22, 0.09)	-1.39 (-4.59, 1.81)
Toxic industrial chemicals	88 (50.9%)	-0.06 (-0.13, 0.02)	-1.35 (-2.92, 0.22)	85 (49.1%)	-0.09 (-0.17, -0.01)	-2.03 (-3.63, -0.43)
Solvents (e.g. thinners, sealer, paints)	103 (59.2%)	-0.05 (-0.12, 0.02)	-1.20 (-2.65, 0.24)	71 (40.8%)	-0.11 (-0.20, -0.03)	-2.45 (-4.19, -0.71)
Live in an area recently sprayed	52 (30.1%)	-0.04 (-0.13, 0.06)	-0.87 (-2.91, 1.17)	121 (69.9%)	-0.09 (-0.16, -0.03)	-2.05 (-3.38, -0.71)

Table 13.18: Mean (95% CI) FVC (and % predicted) change between pre- and post-deployment for chemical and environmental exposures.

Chemical and Environmental Exposures	Exposed			Unexposed		
	Number (%)	Change FVC (95% CI)	Change FVC % Predicted (95% CI)	Number (%)	Change FVC Scores (95% CI)	Change FVC % Predicted (95% CI)
Smoke from fires	165 (93.75%)	-0.07 (-0.14, -0.01)	-1.66 (-3.06, -0.25)	11 (6.25%)	-0.11 (-0.38, 0.15)	-2.38 (-7.81, 3.05)
Dust storms	161 (91.5%)	-0.07 (-0.13, 0.00)	-1.49 (-2.90, -0.07)	15 (8.5%)	-0.19 (-0.41, 0.04)	-4.00 (-8.64, 0.64)
Inhaled fine dust fibres	162 (92.1%)	-0.07 (-0.14, -0.00)	-1.63 (-3.04, -0.21)	14 (7.9%)	-0.12 (-0.35, 0.11)	-2.57 (-7.38, 2.25)
Others' cigarette smoke	143 (81.3%)	-0.06 (-0.14, 0.01)	-1.42 (-2.93, 0.08)	33 (18.7%)	-0.13 (-0.28, 0.02)	-2.91 (-6.40, 0.22)
Diesel exhaust	167 (96.0%)	-0.06 (-0.13, 0.00)	-1.44 (-2.82, -0.06)	7 (4.0%)	-0.30 (-0.63, 0.02)	-6.15 (-12.91, 0.61)
Aviation, marine or automotive fuel	144 (82.3%)	-0.05 (-0.13, 0.02)	-1.19 (-2.68, 0.29)	31 (17.7%)	-0.16 (-0.31, -0.00)	-3.58 (-6.78, -0.38)
Aircraft fumes	154 (88.0%)	-0.05 (-0.12, 0.02)	-1.19 (-2.63, 0.24)	21 (12.0%)	-0.23 (-0.41, -0.04)	-4.70 (-8.58, -0.82)
Toxic industrial chemicals	88 (50.9%)	-0.06 (-0.15, 0.03)	-1.36 (-3.29, 0.56)	85 (49.1%)	-0.08 (-0.18, 0.01)	-1.85 (-3.81, 0.10)
Solvents (e.g. thinners, sealer, paints)	103 (59.2%)	-0.04 (-0.13, 0.05)	-0.96 (-2.73, 0.80)	71 (40.8%)	-0.12 (-0.22, -0.02)	-2.52 (-4.65, -0.39)
Live in an area recently sprayed	52 (30.1%)	-0.02 (-0.14, 0.10)	-0.59 (-3.09, 1.90)	121 (69.9%)	-0.09 (-0.17, -0.01)	-1.99 (-1.59, 4.37)

Table 13.20: Changes in FEV1 and % predicted between pre- and post-deployment and smoking status

Smoking Status	N		Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
Pre Only	26	FEV1	4.29 (4.05, 4.53)	4.21 (3.97, 4.45)	-0.08 (-0.22, 0.05)
		% predicted	92.48 (88.40, 96.57)	90.67 (86.62, 94.72)	-1.81 (-4.70, 1.08)
Post Only	27	FEV1	4.35 (4.12, 4.59)	4.28 (4.05, 4.52)	-0.07 (-0.20, 0.07)
		% predicted	93.50 (89.49, 97.50)	91.94 (97.97, 95.92)	-1.55 (-4.39, 1.28)
Pre and Post	75	FEV1	4.38 (4.24, 4.52)	4.26 (4.12, 4.41)	-0.12 (-0.20, -0.04)
		% predicted	94.10 (91.69, 96.50)	91.52 (89.14, 93.90)	-2.58 (-4.28, -0.88)

(p=0.80 and p=0.79, respectively)

Table 13.21 Changes in FVC and % predicted between pre- and post-deployment and smoking status

Smoking Status	N		Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
Pre Only	26	FVC	5.31 (5.03, 5.60)	5.23 (4.94, 5.52)	-0.08 (-0.24, 0.08)
		% predicted	114.47 (1.09.59, 119.34)	112.67 (107.76, 117.58)	-1.80 (-5.19, 1.60)
Post Only	27	FVC	5.32 (5.04, 5.60)	5.30 (5.02, 5.59)	-0.01 (-0.17, 0.15)
		% predicted	114.39 (109.61, 119.18)	114.05 (109.23, 118.87)	-0.35 (-3.68, 2.99)
Pre and Post	75	FVC	5.47 (5.30, 5.63)	5.36 (5.19, 5.53)	-0.11 (-0.20, -0.01)
		% predicted	117.47 (114.60, 120.34)	115.02 (112.13, 117.92)	-2.45 (-4.45, -0.45)

(p=0.60 and p=0.56, respectively)

Table 13.22 Changes in FEV1/FVC ratio and % predicted between pre- and post-deployment and smoking status

Smoking Status	N		Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
Pre Only	26	FEV1/FVC	80.80 (78.96, 82.64)	80.79 (78.80, 82.77)	-0.01 (-1.32, 1.30)
		% predicted	96.68 (94.59, 98.77)	96.64 (94.40, 98.88)	-0.04 (-1.59, 1.51)
Post Only	27	FEV1/FVC	81.93 (80.12, 83.74)	80.76 (78.81, 82.71)	-1.17 (-2.46, 0.12)
		% predicted	97.00 (94.95, 99.05)	95.62 (93.43, 97.82)	-1.38 (-2.90, 0.15)
Pre and Post	75	FEV1/FVC	80.27 (79.18, 81.35)	79.61 (78.44, 80.78)	-0.66 (-1.43, 0.12)
		% predicted	95.47 (94.24, 96.70)	94.69 (93.37, 96.01)	-0.78 (-1.70, 0.13)

(p=0.46 and p=0.48, respectively)

Table 13.23: Changes in FEV1 and % predicted between pre- and post-deployment and smoking behaviour

Smoking Behaviour	N		Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
Did not smoke	19	FEV1	4.25 (3.97, 4.53)	4.07 (3.80, 4.34)	-0.18 (-0.36, -0.01)
		% predicted	95.12 (90.20, 100.04)	91.08 (86.43, 95.73)	-4.04 (-7.74, -0.35)
Less than usual/Same Amount	11	FEV1	4.34 (3.97, 4.70)	4.15 (3.79, 4.50)	-0.19 (-0.42, 0.04)
		% predicted	94.19 (87.83, 100.76)	90.11 (84.00, 96.22)	-4.19 (-9.04, 0.67)
More than usual	32	FEV1	4.35 (4.13, 4.56)	4.24 (4.03, 4.45)	-0.11 (-0.25, 0.02)
		% predicted	94.50 (90.71, 98.29)	91.97 (88.39, 95.55)	-2.53 (-5.38, 0.31)
Began/restarted smoking	20	FEV1	4.21 (3.94, 4.48)	4.19 (3.93, 4.46)	-0.02 (-0.19, 0.15)
		% predicted	90.12 (85.32, 94.91)	89.62 (85.09, 94.15)	-0.49 (-4.10, 3.11)

(p=0.54 and p=0.50, respectively)

Table 13.24: Changes in FVC and % predicted between pre- and post-deployment and smoking behaviour

Smoking Behaviour	N		Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
Did not smoke	19	FVC	5.46 (5.11, 5.80)	5.22 (4.89, 5.55)	-0.24 (-0.46, -0.01)
		% predicted	121.93 (115.85, 127.97)	116.89 (111.36, 122.42)	-5.04 (-9.77, -0.30)
Less than usual/Same Amount	11	FVC	5.34 (4.88, 5.79)	5.24 (4.81, 5.67)	-0.10 (-0.39, 0.20)
		% predicted	115.94 (107.99, 123.88)	113.69 (106.42, 120.97)	-2.24 (-8.46, 3.98)
More than usual	32	FVC	5.38 (5.12, 5.65)	5.28 (5.03, 5.53)	-0.10 (-0.28, 0.07)
		% predicted	117.19 (112.53, 121.85)	114.74 (110.48, 119.00)	-2.45 (-6.10, 1.19)
Began/restarted smoking	20	FVC	5.28 (4.95, 5.62)	5.30 (4.98, 5.62)	0.02 (-0.20, 0.24)
		% predicted	113.08 (107.19, 118.97)	113.42 (108.02, 118.81)	0.34 (-4.28, 4.95)

(p=0.47 and p=0.46, respectively)

Table 13.25: Changes in FEV1/FVC ratio and % predicted between pre- and post-deployment and smoking behaviour

Smoking Behaviour	N		Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
Did not smoke	19	FEV1/FVC	78.38 (75.90, 80.87)	78.17 (75.71, 80.63)	-0.21 (-1.96, 1.54)
		% predicted	94.84 (91.95, 97.74)	94.61 (91.73, 97.50)	-0.23 (-2.33, 1.87)
Less than usual/Same Amount	11	FEV1/FVC	81.63 (78.36, 84.89)	78.81 (75.57, 82.04)	-2.82 (-5.11, -0.52)
		% predicted	97.19 (93.38, 101.00)	93.83 (90.04, 97.63)	-3.36 (-6.11, -0.60)
More than usual	32	FEV1/FVC	80.80 (78.88, 82.71)	80.23 (78.33, 82.12)	-0.57 (-1.92, 0.78)
		% predicted	96.24 (94.00, 98.47)	95.57 (93.35, 97.80)	-0.67 (-2.28, 0.95)
Began/restarted smoking	20	FEV1/FVC	79.85 (77.42, 82.27)	79.03 (76.63, 81.43)	-0.82 (-2.52, 0.88)
		% predicted	95.10 (92.27, 97.92)	94.11 (91.29, 96.92)	-0.99 (-3.04, 1.05)

(p=0.31 and p=0.32)

Table 13.26: Changes in FEV1 and % predicted between pre- and post-deployment and total time on prior deployments in past 3 years.

Total time on prior deployments	N		Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
None	44	FEV1	4.27 (4.08, 4.46)	4.20 (4.01, 4.39)	-0.07 (-0.17, 0.04)
		% Predicted	91.89 (88.78, 95.01)	90.20 (87.13, 93.27)	-1.69 (-3.88, 0.50)
1-6 months	38	FEV1	4.43 (4.23, 4.64)	4.35 (4.14, 4.56)	-0.08 (-0.20, 0.03)
		% Predicted	94.49 (91.13, 97.84)	92.60 (89.29, 95.90)	-1.89 (-4.24, 0.46)
7-12 months	73	FEV1	4.41 (4.26, 4.56)	4.28 (4.13, 4.43)	-0.13 (-0.21, -0.05)
		% Predicted	94.10 (91.69, 96.52)	91.28 (88.90, 93.66)	-2.82 (-4.52, -1.13)
>12 months	11	FEV1	4.08 (3.70, 4.46)	4.15 (3.77, 4.54)	0.07 (-0.14, 0.28)
		% Predicted	88.07 (81.85, 94.30)	89.70 (83.57, 95.84)	1.63 (-2.74, 6.00)

(p=0.34 and p=0.30)

Table 13.27: Changes in FVC and % predicted between pre- and post-deployment and total time on prior deployments in past 3 years.

Total time on prior deployments	N		Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
None	44	FVC	5.29 (5.07, 5.52)	5.19 (4.97, 5.42)	-0.10 (-0.22, 0.03)
		% Predicted	113.78 (110.18, 117.37)	111.48 (107.95, 115.01)	-2.30 (-4.94, 0.35)
1-6 months	38	FVC	5.49 (5.25, 5.73)	5.40 (5.16, 5.64)	-0.08 (-0.22, 0.05)
		% Predicted	116.82 (112.95, 120.69)	114.93 (111.13, 118.73)	-1.89 (-4.73, 0.96)
7-12 months	73	FVC	5.56 (5.38, 5.73)	5.46 (5.29, 5.63)	-0.10 (-0.20, 0.002)
		% Predicted	118.74 (115.94, 121.53)	116.65 (113.91, 119.39)	-2.08 (-4.14, -0.03)
>12 months	11	FVC	4.92 (4.48, 5.37)	5.00 (4.56, 5.45)	0.08 (-0.18, 0.34)
		% Predicted	106.28 (99.08, 113.48)	108.09 (101.03, 115.15)	1.81 (-3.48, 7.10)

(p=0.63 and p=0.57, respectively)

Table 13.28: Changes in FEV1/FVC ratio and % predicted between pre- and post-deployment and total time on prior deployments in past 3 years.

Total time on prior deployments	N		Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
None	44	FEV1/FVC	81.04 (79.38, 82.71)	81.01 (79.43, 82.59)	-0.03 (-1.02, 0.96)
		% Predicted	95.77 (93.88, 97.66)	95.75 (93.95, 97.56)	-0.01 (-1.20, 1.17)
1-6 months	38	FEV1/FVC	81.02 (79.23, 82.81)	80.66 (78.96, 82.36)	-0.36 (-1.4, 0.71)
		% Predicted	96.86 (94.83, 98.90)	96.43 (94.48, 98.37)	-0.43 (-1.71, 0.84)
7-12 months	73	FEV1/FVC	79.34 (78.05, 80.63)	78.31 (77.09, 79.54)	-1.03 (-1.79, -0.26)
		% Predicted	94.85 (93.38, 96.32)	93.63 (92.23, 95.03)	-1.22 (-2.14, -0.30)
>12 months	11	FEV1/FVC	83.12 (79.79, 86.44)	83.08 (79.92, 86.24)	-0.04 (-2.02, 1.95)
		% Predicted	98.38 (94.59, 102.16)	98.33 (94.71, 101.94)	-0.05 (-2.42, 2.31)

(p=0.40 and p=0.40, respectively)

Table 13.29 Changes in FEV1 and % predicted between pre- and post-deployment and number of prior deployments

Prior deployments	N		Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
No prior deployments	44	FEV1	4.27 (4.09, 4.46)	4.20 (4.02, 4.39)	-0.07 (-0.17, 0.04)
		% Predicted	91.89 (88.81, 94.97)	90.20 (87.21, 93.19)	-1.69 (-3.87, 0.49)
1-2 deployments	73	FEV1	4.43 (4.29, 4.57)	4.37 (4.23, 4.52)	-0.06 (-0.14, 0.02)
		% Predicted	93.78 (91.39, 96.17)	92.52 (90.20, 94.84)	-1.27 (-2.96, 0.43)
3-4 deployments	31	FEV1	4.47 (4.25, 4.70)	4.30 (4.08, 4.53)	-0.17 (-0.30, -0.05)
		% Predicted	96.78 (93.11, 100.45)	93.21 (89.65, 96.78)	-3.56 (-6.16, -0.96)
5+ deployments	22	FEV1	4.04 (3.78, 4.30)	3.94 (3.67, 4.20)	-0.10 (-0.25, 0.04)
		% Predicted	90.74 (86.39, 95.10)	88.35 (84.12, 92.58)	-2.39 (-5.48, 0.70)

(p=0.49 and p=0.52, respectively)

Table 13.30: Changes in FVC and % predicted between pre- and post-deployment and number of prior deployments

Prior deployments	N		Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
No prior deployments	44	FVC	5.29 (5.07, 5.52)	5.19 (4.97, 5.42)	-0.10 (-0.23, 0.03)
		% Predicted	113.78 (110.13, 117.42)	111.48 (107.93, 115.02)	-2.30 (-4.94, 0.34)
1-2 deployments	73	FVC	5.49 (5.32, 5.67)	5.45 (5.28, 5.63)	-0.04 (-0.14, 0.06)
		% Predicted	116.39 (113.56, 119.22)	115.49 (112.74, 118.25)	-0.89 (-2.94, 1.16)
3-4 deployments	31	FVC	5.60 (5.33, 5.86)	5.46 (5.20, 5.73)	-0.13 (-0.28, 0.02)
		% Predicted	121.07 (116.73, 125.42)	118.33 (114.11, 122.56)	-2.74 (-5.89, 0.41)
5+ deployments	22	FVC	5.12 (4.81, 5.44)	5.00 (4.68, 5.32)	-0.13 (-0.31, 0.05)
		% Predicted	114.97 (109.81, 120.13)	112.14 (107.12, 117.15)	-2.83 (-6.57, 0.90)

(p=0.70 and p=0.67, respectively)

Table 13.31: Changes in FEV1/FVC and % predicted risk categories between pre- and post-deployment and number of prior deployments

Prior deployments	N		Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
No prior deployments	44	FEV1/FVC	81.04 (79.39, 82.70)	81.01 (79.40, 82.63)	-0.03 (-0.96, 0.90)
		% Predicted	95.76 (93.86, 97.67)	95.75 (93.90, 97.61)	-0.01 (-1.13, 1.10)
1-2 deployments	73	FEV1/FVC	80.71 (79.42, 81.99)	80.20 (78.95, 81.45)	-0.51 (-1.23, 0.21)
		% Predicted	95.75 (94.27, 97.23)	95.14 (93.70, 96.58)	-0.61 (-1.48, 0.26)
3-4 deployments	31	FEV1/FVC	80.10 (78.12, 82.07)	78.74 (76.82, 80.66)	-1.35 (-2.46, -0.24)
		% Predicted	96.35 (94.08, 98.62)	94.73 (92.52, 96.94)	-1.62 (-2.95, -0.29)
5+ deployments	22	FEV1/FVC	79.08 (76.74, 81.42)	79.25 (76.97, 81.53)	0.17 (-1.15, 1.49)
		% Predicted	96.71 (94.02, 99.40)	96.91 (94.29, 99.54)	0.21 (-1.37, 1.78)

Table 13.32: Changes in FEV1 and % predicted between pre- and post-deployment and co-morbidity at post-deployment

Co-morbidities	N		Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
No Psychological Conditions		FEV1	4.37 (4.24, 4.51)	4.29 (4.15, 4.42)	-0.09 (-0.17, -0.01)
		% predicted	94.57 (92.34, 96.80)	92.66 (90.41, 94.91)	-1.91 (-3.57, -0.25)
One Psychological Condition		FEV1	4.50 (4.35, 4.65)	4.40 (4.24, 4.56)	-0.10 (-0.19, -0.01)
		% predicted	95.10 (92.54, 97.67)	92.88 (90.29, 95.47)	-2.22 (-4.12, -0.32)
Two Psychological Conditions		FEV1	4.15 (3.92, 4.38)	4.17 (3.93, 4.40)	0.02 (-0.12, 0.15)
		% predicted	90.35 (86.48, 94.22)	90.45 (86.55, 94.35)	0.10 (-2.77, 2.97)
Three Psychological Conditions		FEV1	4.11 (3.82, 4.40)	3.97 (3.67, 4.28)	-0.14 (-0.31, 0.04)
		% predicted	90.47 (85.54, 95.40)	87.55 (82.58, 92.53)	-2.92 (-6.57, 0.74)

(p=0.48 and p=0.52, respectively)

Table 13.33 Changes in FVC and % predicted between pre- and post-deployment and co-morbidity at post-deployment

Co-morbidities	N		Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
No Psychological Conditions		FVC	5.43 (5.27, 5.60)	5.32 (5.15, 5.48)	-0.12 (-0.21, -0.02)
		% predicted	117.41 (114.71, 120.12)	114.93 (112.20, 117.66)	-2.48 (-4.50, -0.47)
One Psychological Condition		FVC	5.60 (5.41, 5.79)	5.49 (5.30, 5.68)	-0.12 (-0.22, 0.01)
		% predicted	118.30 (115.18, 121.41)	115.98 (112.84, 119.11)	-2.32 (-4.64, -0.00)
Two Psychological Conditions		FVC	5.07 (4.78, 5.35)	5.16 (4.88, 5.45)	0.10 (-0.07, 0.27)
		% predicted	110.23 (105.54, 114.92)	112.04 (107.32, 116.76)	1.81 (-1.68, 5.31)
Three Psychological Conditions		FVC	5.26 (4.91, 5.62)	5.17 (4.80, 5.53)	-0.10 (-0.31, 0.12)
		% predicted	116.23 (110.26, 122.21)	114.19 (108.17, 120.21)	-2.05 (-6.50, 2.41)

(p=0.17 and p=0.19, respectively)

Table 13.34: Changes in FEV1/FVC and % predicted between pre- and post-deployment and co-morbidity at post-deployment

Co-morbidities	N		Pre-deployment (95% CI)	Post deployment (95% CI)	Change (95% CI)
No Psychological Conditions		FEV1/FVC	80.76 (79.57, 81.95)	80.66 (79.54, 81.78)	-0.10 (-0.83, 0.62)
		% predicted	96.76 (95.42, 98.09)	96.65 (95.39, 97.91)	-0.11 (-0.98, 0.76)
One Psychological Condition		FEV1/FVC	80.46 (79.10, 81.83)	80.26 (78.97, 81.55)	-0.20 (-1.04, 0.63)
		% predicted	95.60 (94.06, 97.13)	95.34 (93.89, 96.79)	-0.25 (-1.25, 0.74)
Two Psychological Conditions		FEV1/FVC	82.35 (80.29, 84.41)	81.08 (79.14, 83.02)	-1.27 (-2.53, -0.02)
		% predicted	97.97 (95.66, 100.28)	96.48 (94.30, 98.67)	-1.49 (-2.99, 0.02)
Three Psychological Conditions		FEV1/FVC	78.00 (75.37, 80.63)	76.84 (74.37, 79.31)	-1.16 (-2.76, 0.44)
		% predicted	93.09 (90.14, 96.04)	91.71 (88.92, 94.49)	-1.38 (-3.30, 0.53)

(p=0.31 and p=0.32, respectively)

Appendix U

Chapter Fourteen

Appendix U: Chapter Fourteen – Skin Conditions

Table 14.2: Change in occurrence of dermatitis between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	Neither %	Present at Pre %	Present at Post %	Present at Both %
		N				
Total Sample		107	100.0%	0.0%	0.0%	0.0%
Age	16-24	40	100.0%	0.0%	0.0%	0.0%
	25-34	51	100.0%	0.0%	0.0%	0.0%
	35-44	14	100.0%	0.0%	0.0%	0.0%
	45-54	2	100.0%	0.0%	0.0%	0.0%
Rank	Officer	7	100.0%	0.0%	0.0%	0.0%
	NCO	32	100.0%	0.0%	0.0%	0.0%
	Other ranks	68	100.0%	0.0%	0.0%	0.0%
Locations	In Country	96	100.0%	0.0%	0.0%	0.0%
	Missing Location	11	100.0%	0.0%	0.0%	0.0%
Roles	Combat Afghan & Outside MSB	86	100.0%	0.0%	0.0%	0.0%
	Inside MSB	10	100.0%	0.0%	0.0%	0.0%
	Missing Roles	11	100.0%	0.0%	0.0%	0.0%
Duty	Regular	101	100.0%	0.0%	0.0%	0.0%
	Reservist	5	100.0%	0.0%	0.0%	0.0%
	Missing Duty	1	100.0%	0.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	22	100.0%	0.0%	0.0%	0.0%
	1 - 2 Prior Deployments	35	100.0%	0.0%	0.0%	0.0%
	3 - 4 Prior Deployments	18	100.0%	0.0%	0.0%	0.0%
	5+ Prior Deployments	18	100.0%	0.0%	0.0%	0.0%
	Missing No. Prior Deployments	14	100.0%	0.0%	0.0%	0.0%

*Note: All participants that undertook photography were male and in the Army

Table 14.3: Change in occurrence of psoriasis between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	Neither %	Present at Pre %	Present at Post %	Present at Both %
		N				
Total Sample		108	100.0%	0.0%	0.0%	0.0%
Age	16-24	40	100.0%	0.0%	0.0%	0.0%
	25-34	52	100.0%	0.0%	0.0%	0.0%
	35-44	14	100.0%	0.0%	0.0%	0.0%
	45-54	2	100.0%	0.0%	0.0%	0.0%
Rank	Officer	7	100.0%	0.0%	0.0%	0.0%
	NCO	32	100.0%	0.0%	0.0%	0.0%
	Other ranks	69	100.0%	0.0%	0.0%	0.0%
Locations	In Country	97	100.0%	0.0%	0.0%	0.0%
	Missing Location	11	100.0%	0.0%	0.0%	0.0%
Roles	Combat Afghan & Outside MSB	87	100.0%	0.0%	0.0%	0.0%
	Inside MSB	10	100.0%	0.0%	0.0%	0.0%
	Missing Roles	11	100.0%	0.0%	0.0%	0.0%
Duty	Regular	102	100.0%	0.0%	0.0%	0.0%
	Reservist	5	100.0%	0.0%	0.0%	0.0%
	Missing Duty	1	100.0%	0.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	22	100.0%	0.0%	0.0%	0.0%
	1 - 2 Prior Deployments	35	100.0%	0.0%	0.0%	0.0%
	3 - 4 Prior Deployments	19	100.0%	0.0%	0.0%	0.0%
	5+ Prior Deployments	18	100.0%	0.0%	0.0%	0.0%
	Missing No. Prior Deployments	14	100.0%	0.0%	0.0%	0.0%

*Note: All participants that undertook photography were male and in the Army

Table 14.4: Change in occurrence of acne between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	Neither %	Present at Pre %	Present at Post %	Present at Both %
		N				
Total Sample		104	54.8%	8.7%	3.8%	32.7%
Age	16-24	39	51.3%	5.1%	2.6%	41.0%
	25-34	49	53.1%	12.2%	4.1%	30.6%
	35-44	14	71.4%	7.20%	7.1%	14.3%
	45-54	2	50.0%	0.00%	0.00%	50.0%
Rank	Officer	7	57.1%	0.00%	0.00%	42.9%
	NCO	32	62.5%	12.5%	3.1%	21.9%
	Other ranks	65	50.8%	7.7%	4.6%	36.9%
Locations	In Country	94	53.2%	9.6%	3.2%	34.0%
	Missing Location	10	70.0%	0.00%	10.0%	20.0%
Roles	Combat Afghan & Outside MSB	84	52.4%	8.3%	2.4%	36.9%
	Inside MSB	10	60.0%	20.0%	10.0%	10.0%
	Missing Roles	10	70.0%	0.00%	10.0%	20.0%
Duty	Regular	99	52.5%	9.1%	4.0%	34.40%
	Reservist	5	100.0%	0.00%	0.00%	0.00%
Prior Deployments	No Prior Deployments	21	57.1%	0.00%	0.00%	42.9%
	1 - 2 Prior Deployments	34	52.9%	11.8%	2.9%	32.4%
	3 - 4 Prior Deployments	19	63.2%	10.5%	10.5%	15.8%
	5+ Prior Deployments	17	58.8%	11.8%	0.00%	29.4%
	Missing No. Prior Deployments	13	38.5%	7.7%	7.7%	46.10%

*Note: All participants that undertook photography were male and in the Army

Table 14.5: Change in occurrence of notable skin lesions – skin cancer between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	Neither %	Present at Pre %	Present at Post %	Present at Both %
		N				
Total Sample		82	100.0%	0.0%	0.0%	0.0%
Age	16-24	38	100.0%	0.0%	0.0%	0.0%
	25-34	33	100.0%	0.0%	0.0%	0.0%
	35-44	10	100.0%	0.0%	0.0%	0.0%
Rank	Officer	1	100.0%	0.0%	0.0%	0.0%
	NCO	7	100.0%	0.0%	0.0%	0.0%
	Other ranks	22	100.0%	0.0%	0.0%	0.0%
Locations	In Country	53	100.0%	0.0%	0.0%	0.0%
	Missing Location	75	100.0%	0.0%	0.0%	0.0%
Roles	Combat Afghan & Outside MSB	7	100.0%	0.0%	0.0%	0.0%
	Inside MSB	66	100.0%	0.0%	0.0%	0.0%
	Missing Roles	9	100.0%	0.0%	0.0%	0.0%
Duty	Regular	7	100.0%	0.0%	0.0%	0.0%
	Reservist	79	100.0%	0.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	3	100.0%	0.0%	0.0%	0.0%
	1 - 2 Prior Deployments	20	100.0%	0.0%	0.0%	0.0%
	3 - 4 Prior Deployments	30	100.0%	0.0%	0.0%	0.0%
	5+ Prior Deployments	11	100.0%	0.0%	0.0%	0.0%
	Missing No. Prior Deployments	11	100.0%	0.0%	0.0%	0.0%

*Note: All participants that undertook photography were male and in the Army

Table 14.6: Change in occurrence of notable skin lesions - seborrheic wart between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	Neither %	Present at Pre %	Present at Post %	Present at Both %
		N				
Total Sample		83	100.0%	0.0%	0.0%	0.0%
Age	16-24	38	100.0%	0.0%	0.0%	0.0%
	25-34	34	100.0%	0.0%	0.0%	0.0%
	35-44	10	100.0%	0.0%	0.0%	0.0%
Rank	Officer	1	100.0%	0.0%	0.0%	0.0%
	NCO	7	100.0%	0.0%	0.0%	0.0%
	Other ranks	22	100.0%	0.0%	0.0%	0.0%
Locations	In Country	54	100.0%	0.0%	0.0%	0.0%
	Missing Location	76	100.0%	0.0%	0.0%	0.0%
Roles	Combat Afghan & Outside MSB	7	100.0%	0.0%	0.0%	0.0%
	Inside MSB	67	100.0%	0.0%	0.0%	0.0%
	Missing Roles	9	100.0%	0.0%	0.0%	0.0%
Duty	Regular	7	100.0%	0.0%	0.0%	0.0%
	Reservist	80	100.0%	0.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	3	100.0%	0.0%	0.0%	0.0%
	1 - 2 Prior Deployments	20	100.0%	0.0%	0.0%	0.0%
	3 - 4 Prior Deployments	30	100.0%	0.0%	0.0%	0.0%
	5+ Prior Deployments	12	100.0%	0.0%	0.0%	0.0%
	Missing No. Prior Deployments	11	100.0%	0.0%	0.0%	0.0%

*Note: All participants that undertook photography were male and in the Army

Table 14.7: Change in occurrence of notable skin lesions - viral wart between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	Neither %	Present at Pre %	Present at Post %	Present at Both %
		N				
Total Sample		88	96.6%	1.1%	1.1%	1.2%
Age	16-24	38	92.1%	2.6%	2.6%	2.7%
	25-34	38	100.0%	0.0%	0.0%	0.0%
	35-44	10	100.0%	0.0%	0.0%	0.0%
Rank	Officer	2	100.0%	0.0%	0.0%	0.0%
	NCO	7	100.0%	0.0%	0.0%	0.0%
	Other ranks	24	100.0%	0.0%	0.0%	0.0%
Locations	In Country	57	94.7%	1.8%	1.8%	1.7%
	Missing Location	79	96.2%	1.3%	1.3%	1.2%
Roles	Combat Afghan & Outside MSB	9	100.0%	0.0%	0.0%	0.0%
	Inside MSB	70	95.7%	1.4%	1.4%	1.5%
	Missing Roles	9	100.0%	0.0%	0.0%	0.0%
Duty	Regular	9	100.0%	0.0%	0.0%	0.0%
	Reservist	84	96.4%	1.2%	1.2%	1.2%
Prior Deployments	No Prior Deployments	4	100.0%	0.0%	0.0%	0.0%
	1 - 2 Prior Deployments	21	100.0%	0.0%	0.0%	0.0%
	3 - 4 Prior Deployments	30	93.4%	3.3%	0.0%	3.3%
	5+ Prior Deployments	14	100.0%	0.0%	0.0%	0.0%
	Missing No. Prior Deployments	13	100.0%	0.0%	0.0%	0.0%

*Note: All participants that undertook photography were male and in the Army

Table 14.8: Change in occurrence of notable skin lesions - hemangioma between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	Neither %	Present at Pre %	Present at Post %	Present at Both %
		N				
Total Sample		83	97.6%	1.2%	0.0%	1.2%
Age	16-24	38	97.4%	2.6%	0.0%	0.0%
	25-34	34	100.0%	0.0%	0.0%	0.0%
	35-44	10	90.0%	0.0%	0.0%	10.0%
Rank	Officer	1	100.0%	0.0%	0.0%	0.0%
	NCO	7	100.0%	0.0%	0.0%	0.0%
	Other ranks	22	100.0%	0.0%	0.0%	0.0%
Locations	In Country	54	96.2%	1.9%	0.0%	1.9%
	Missing Location	76	97.4%	1.3%	0.0%	1.3%
Roles	Combat Afghan & Outside MSB	7	100.0%	0.0%	0.0%	0.0%
	Inside MSB	67	97.0%	1.5%	0.0%	1.5%
	Missing Roles	9	100.0%	0.0%	0.0%	0.0%
Duty	Regular	7	100.0%	0.0%	0.0%	0.0%
	Reservist	80	97.5%	1.3%	0.0%	1.2%
Prior Deployments	No Prior Deployments	3	100.0%	0.0%	0.0%	0.0%
	1 - 2 Prior Deployments	20	95.0%	0.0%	0.0%	5.0%
	3 - 4 Prior Deployments	30	96.7%	3.3%	0.0%	0.0%
	5+ Prior Deployments	12	100.0%	0.0%	0.0%	0.0%
	Missing No. Prior Deployments	11	100.0%	0.0%	0.0%	0.0%

*Note: All participants that undertook photography were male and in the Army

Table 14.9: Change in occurrence of notable skin lesions - ringed keratolysis between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	Neither %	Present at Pre %	Present at Post %	Present at Both %
		N				
Total Sample		89	88.8%	10.1%	0.0%	1.1%
Age	16-24	38	89.5%	10.5%	0.0%	0.0%
	25-34	39	84.6%	12.8%	0.0%	2.6%
	35-44	10	100.0%	0.0%	0.0%	0.0%
Rank	Officer	2	100.0%	0.0%	0.0%	0.0%
	NCO	7	85.7%	14.3%	0.0%	0.0%
	Other ranks	25	92.0%	4.0%	0.0%	4.0%
Locations	In Country	57	87.7%	12.3%	0.0%	0.0%
	Missing Location	80	88.8%	10.0%	0.0%	1.2%
Roles	Combat Afghan & Outside MSB	9	88.9%	11.1%	0.0%	0.0%
	Inside MSB	71	88.7%	9.9%	0.0%	1.4%
	Missing Roles	9	88.9%	11.1%	0.0%	0.0%
Duty	Regular	9	88.9%	11.1%	0.0%	0.0%
	Reservist	85	88.2%	10.6%	0.0%	1.2%
Prior Deployments	No Prior Deployments	4	100.0%	0.0%	0.0%	0.0%
	1 - 2 Prior Deployments	21	90.5%	9.5%	0.0%	0.0%
	3 - 4 Prior Deployments	30	83.3%	16.7%	0.0%	0.0%
	5+ Prior Deployments	14	100.0%	0.0%	0.0%	0.0%
	Missing No. Prior Deployments	14	85.7%	7.1%	0.0%	7.2%

*Note: All participants that undertook photography were male and in the Army

Table 14.10: Change in occurrence of secondary skin rashes - tinea between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	Neither %	Present at Pre %	Present at Post %	Present at Both %
		N				
Total Sample		88	84.1%	9.1%	0.0%	6.8%
Age	16-24	39	82.1%	12.8%	0.0%	5.1%
	25-34	38	89.40%	5.3%	0.0%	5.30%
	35-44	10	80.0%	0.00%	0.0%	20.0%
	45-54	1	0.00%	100.0%	0.0%	0.00%
Rank	Officer	7	71.4%	14.3%	0.0%	14.3%
	NCO	23	87.0%	8.7%	0.0%	4.3%
	Other ranks	58	84.5%	8.6%	0.0%	6.9%
Locations	In Country	80	82.5%	10.0%	0.0%	7.5%
	Missing Location	8	100.0%	0.00%	0.0%	0.00%
Roles	Combat Afghan & Outside MSB	71	84.5%	9.9%	0.0%	5.6%
	Inside MSB	9	66.7%	11.1%	0.0%	22.2%
	Missing Roles	8	100.0%	0.00%	0.0%	0.00%
Duty	Regular	84	83.3%	9.5%	0.0%	7.20%
	Reservist	3	100.0%	0.00%	0.0%	0.00%
	Missing Duty	1	100.0%	0.00%	0.0%	0.00%
Prior Deployments	No Prior Deployments	21	80.90%	14.3%	0.0%	4.8%
	1 - 2 Prior Deployments	31	90.3%	6.5%	0.0%	3.2%
	3 - 4 Prior Deployments	14	78.6%	14.3%	0.0%	7.1%
	5+ Prior Deployments	11	90.9%	0.00%	0.0%	9.1%
	Missing No. Prior Deployments	11	72.7%	9.1%	0.0%	18.2%

*Note: All participants that undertook photography were male and in the Army

Table 14.11: Change in occurrence of secondary skin rashes - sun damage between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	Neither %	Present at Pre %	Present at Post %	Present at Both %
		N				
Total Sample		91	69.2%	1.1%	0.0%	29.7%
Age	16-24	39	79.5%	0.00%	0.0%	20.5%
	25-34	39	66.7%	2.6%	0.0%	30.70%
	35-44	11	54.5%	0.00%	0.0%	45.5%
	45-54	2	0.00%	0.00%	0.0%	100.0%
Rank	Officer	7	28.6%	0.00%	0.0%	71.4%
	NCO	24	62.5%	0.00%	0.0%	37.5%
	Other ranks	60	76.60%	1.7%	0.0%	21.7%
Locations	In Country	83	69.90%	1.20%	0.0%	28.90%
	Missing Location	8	62.50%	0.00%	0.0%	37.50%
Roles	Combat Afghan & Outside MSB	74	70.20%	1.4%	0.0%	28.4%
	Inside MSB	9	66.7%	0.00%	0.0%	33.3%
	Missing Roles	8	62.5%	0.00%	0.0%	37.5%
Duty	Regular	87	70.1%	1.20%	0.0%	28.7%
	Reservist	3	33.3%	0.00%	0.0%	66.7%
	Missing Duty	1	100.0%	0.00%	0.0%	0.00%
Prior Deployments	No Prior Deployments	22	77.3%	0.00%	0.0%	22.7%
	1 - 2 Prior Deployments	30	73.3%	0.00%	0.0%	26.7%
	3 - 4 Prior Deployments	16	56.20%	6.3%	0.0%	37.5%
	5+ Prior Deployments	12	50.0%	0.00%	0.0%	50.0%
	Missing No. Prior Deployments	11	81.8%	0.00%	0.0%	18.2%

*Note: All participants that undertook photography were male and in the Army

Table 14.12: Change in occurrence of secondary skin rashes - seborrheic dermatitis between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	Neither %	Present at Pre %	Present at Post %	Present at Both %
		N				
Total Sample		99	100.0%	0.0%	0.0%	0.0%
Age	16-24	40	100.0%	0.0%	0.0%	0.0%
	25-34	45	100.0%	0.0%	0.0%	0.0%
	35-44	13	100.0%	0.0%	0.0%	0.0%
	45-54	1	100.0%	0.0%	0.0%	0.0%
Rank	Officer	7	100.0%	0.0%	0.0%	0.0%
	NCO	27	100.0%	0.0%	0.0%	0.0%
	Other ranks	65	100.0%	0.0%	0.0%	0.0%
Locations	In Country	90	100.0%	0.0%	0.0%	0.0%
	Missing Location	9	100.0%	0.0%	0.0%	0.0%
Roles	Combat Afghan & Outside MSB	80	100.0%	0.0%	0.0%	0.0%
	Inside MSB	10	100.0%	0.0%	0.0%	0.0%
	Missing Roles	9	100.0%	0.0%	0.0%	0.0%
Duty	Regular	94	100.0%	0.0%	0.0%	0.0%
	Reservist	4	100.0%	0.0%	0.0%	0.0%
	Missing Duty	1	100.0%	0.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	22	100.0%	0.0%	0.0%	0.0%
	1 - 2 Prior Deployments	35	100.0%	0.0%	0.0%	0.0%
	3 - 4 Prior Deployments	16	100.0%	0.0%	0.0%	0.0%
	5+ Prior Deployments	14	100.0%	0.0%	0.0%	0.0%
	Missing No. Prior Deployments	12	100.0%	0.0%	0.0%	0.0%

*Note: All participants that undertook photography were male and in the Army

Table 14.13: Change in occurrence of secondary Skin Rashes - Rosacea between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	Neither %	Present at Pre %	Present at Post %	Present at Both %
		N				
Total Sample		100	100.0%	0.0%	0.0%	0.0%
Age	16-24	40	100.0%	0.0%	0.0%	0.0%
	25-34	46	100.0%	0.0%	0.0%	0.0%
	35-44	13	100.0%	0.0%	0.0%	0.0%
	45-54	1	100.0%	0.0%	0.0%	0.0%
Rank	Officer	7	100.0%	0.0%	0.0%	0.0%
	NCO	27	100.0%	0.0%	0.0%	0.0%
	Other ranks	66	100.0%	0.0%	0.0%	0.0%
Locations	In Country	91	100.0%	0.0%	0.0%	0.0%
	Missing Location	9	100.0%	0.0%	0.0%	0.0%
Roles	Combat Afghan & Outside MSB	95	100.0%	0.0%	0.0%	0.0%
	Inside MSB	4	100.0%	0.0%	0.0%	0.0%
	Missing Roles	1	100.0%	0.0%	0.0%	0.0%
Duty	Regular	95	100.0%	0.0%	0.0%	0.0%
	Reservist	4	100.0%	0.0%	0.0%	0.0%
	Missing Duty	1	100.0%	0.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	22	100.0%	0.0%	0.0%	0.0%
	1 - 2 Prior Deployments	35	100.0%	0.0%	0.0%	0.0%
	3 - 4 Prior Deployments	17	100.0%	0.0%	0.0%	0.0%
	5+ Prior Deployments	14	100.0%	0.0%	0.0%	0.0%
	Missing No. Prior Deployments	12	100.0%	0.0%	0.0%	0.0%

*Note: All participants that undertook photography were male and in the Army

Appendix V

Chapter Fifteen

Chapter Fifteen – Infectious Diseases

Table 15.2: Difference between proportions of respondents who only completed pre-deployment and those who completed pre- and post-deployment for IgG positive leishmania

Characteristics	Sub groups	Positive Leishmania IgG antibody				
		Pre Only N	IgG at pre deployment %	Pre and Post N	IgG at pre deployment %	Difference %
Total Sample		228	0.0%	348	0.0%	0.0%
Gender	Female	5	0.0%	5	0.0%	0.0%
	Male	223	0.0%	343	0.0%	0.0%
Age	16-24	74	0.0%	164	0.0%	0.0%
	25-34	121	0.0%	132	0.0%	0.0%
	35-44	29	0.0%	42	0.0%	0.0%
	45-54	4	0.0%	10	0.0%	0.0%
Service	Navy	14	0.0%	18	0.0%	0.0%
	Army	211	0.0%	330	0.0%	0.0%
Rank	Officer	30	0.0%	19	0.0%	0.0%
	NCO	89	0.0%	109	0.0%	0.0%
	Other ranks	109	0.0%	220	0.0%	0.0%
Locations	In Country	89	0.0%	283	0.0%	0.0%
	Out Country	9	0.0%	17	0.0%	0.0%
	Missing Location	130	0.0%	48	0.0%	0.0%
Roles	Combat Afghan & Outside MSB	70	0.0%	246	0.0%	0.0%
	Inside MSB	19	0.0%	37	0.0%	0.0%
	Outside Afghan	9	0.0%	17	0.0%	0.0%
	Missing Roles	130	0.0%	48	0.0%	0.0%
Duty	Regular	194	0.0%	328	0.0%	0.0%
	Reservist	19	0.0%	11	0.0%	0.0%
	Missing Duty	15	0.0%	9	0.0%	0.0%
Prior	No Prior Deployments	47	0.0%	82	0.0%	0.0%

Deployments	1 - 2 Prior Deployments	75	0.0%	125	0.0%	0.0%
	3 - 4 Prior Deployments	35	0.0%	45	0.0%	0.0%
	5+ Prior Deployments	33	0.0%	42	0.0%	0.0%
	Missing No. Prior Deployments	38	0.0%	54	0.0%	0.0%

Table 15.3 Change between pre- and post-deployment in proportions of respondents who completed pre- and post-deployment for IgG positive leishmania

Characteristics	Sub groups	Total N	Positive Leishmania IgG antibody			
			None %	at only Pre %	at only Post %	at Both %
Total Sample		348	100.0%	0.0%	0.0%	0.0%
Gender	Female	5	100.0%	0.0%	0.0%	0.0%
	Male	343	100.0%	0.0%	0.0%	0.0%
Age	16-24	164	100.0%	0.0%	0.0%	0.0%
	25-34	132	100.0%	0.0%	0.0%	0.0%
	35-44	42	100.0%	0.0%	0.0%	0.0%
	45-54	10	100.0%	0.0%	0.0%	0.0%
Service	Navy	18	100.0%	0.0%	0.0%	0.0%
	Army	330	100.0%	0.0%	0.0%	0.0%
Rank	Officer	19	100.0%	0.0%	0.0%	0.0%
	NCO	109	100.0%	0.0%	0.0%	0.0%
	Other ranks	220	100.0%	0.0%	0.0%	0.0%
Locations	In Country	283	100.0%	0.0%	0.0%	0.0%
	Out Country	17	100.0%	0.0%	0.0%	0.0%
	Missing Location	48	100.0%	0.0%	0.0%	0.0%
Roles	Combat Afghan & Outside MSB	246	100.0%	0.0%	0.0%	0.0%
	Inside MSB	37	100.0%	0.0%	0.0%	0.0%
	Outside Afghan	17	100.0%	0.0%	0.0%	0.0%
	Missing Roles	48	100.0%	0.0%	0.0%	0.0%
Duty	Regular	328	100.0%	0.0%	0.0%	0.0%
	Reservist	11	100.0%	0.0%	0.0%	0.0%
	Missing Duty	9	100.0%	0.0%	0.0%	0.0%
	No Prior Deployments	82	100.0%	0.0%	0.0%	0.0%
Prior Deployments	1 - 2 Prior Deployments	125	100.0%	0.0%	0.0%	0.0%
	3 - 4 Prior Deployments	45	100.0%	0.0%	0.0%	0.0%
	5+ Prior Deployments	42	100.0%	0.0%	0.0%	0.0%
	Missing No. Prior Deployments	54	100.0%	0.0%	0.0%	0.0%

Table 15.4: Difference between proportions of respondents who only completed pre-deployment and those who completed pre- and post-deployment for IgG positive Hep C

Characteristics	Sub groups	Positive Hep C IgG				
		Pre Only N	IgG at pre deployment %	Pre and Post N	IgG at pre deployment %	Difference %
Total Sample		228	0.0%	348	0.0%	0.0%
Gender	Female	5	0.0%	5	0.0%	0.0%
	Male	223	0.0%	343	0.0%	0.0%
Age	16-24	74	0.0%	164	0.0%	0.0%
	25-34	121	0.0%	132	0.0%	0.0%
	35-44	29	0.0%	42	0.0%	0.0%
	45-54	4	0.0%	10	0.0%	0.0%
Service	Navy	14	0.0%	18	0.0%	0.0%
	Army	211	0.0%	330	0.0%	0.0%
Rank	Officer	30	0.0%	19	0.0%	0.0%
	NCO	89	0.0%	109	0.0%	0.0%
	Other ranks	109	0.0%	220	0.0%	0.0%
Locations	In Country	89	0.0%	283	0.0%	0.0%
	Out Country	9	0.0%	17	0.0%	0.0%
	Missing Location	130	0.0%	48	0.0%	0.0%
Roles	Combat Afghan & Outside MSB	70	0.0%	246	0.0%	0.0%
	Inside MSB	19	0.0%	37	0.0%	0.0%
	Outside Afghan	9	0.0%	17	0.0%	0.0%
	Missing Roles	130	0.0%	48	0.0%	0.0%
Duty	Regular	194	0.0%	328	0.0%	0.0%
	Reservist	19	0.0%	11	0.0%	0.0%
	Missing Duty	15	0.0%	9	0.0%	0.0%
Prior Deployments	No Prior Deployments	47	0.0%	82	0.0%	0.0%
	1 - 2 Prior Deployments	75	0.0%	125	0.0%	0.0%
	3 - 4 Prior Deployments	35	0.0%	45	0.0%	0.0%

	5+ Prior Deployments	33	0.0%	42	0.0%	0.0%
	Missing No. Prior Deployments	38	0.0%	54	0.0%	0.0%

Table 15.5 Change between pre- and post-deployment in proportions of respondents who completed pre- and post-deployment for IgG positive Hep C

Characteristics	Sub groups	Total N	Positive Hepatitis C			
			None %	at only Pre %	at only Post %	at Both %
Total Sample		348	100.0%	0.0%	0.0%	0.0%
Gender	Female	5	100.0%	0.0%	0.0%	0.0%
	Male	343	100.0%	0.0%	0.0%	0.0%
Age	16-24	164	100.0%	0.0%	0.0%	0.0%
	25-34	132	100.0%	0.0%	0.0%	0.0%
	35-44	42	100.0%	0.0%	0.0%	0.0%
	45-54	10	100.0%	0.0%	0.0%	0.0%
Service	Navy	18	100.0%	0.0%	0.0%	0.0%
	Army	330	100.0%	0.0%	0.0%	0.0%
Rank	Officer	19	100.0%	0.0%	0.0%	0.0%
	NCO	109	100.0%	0.0%	0.0%	0.0%
	Other ranks	220	100.0%	0.0%	0.0%	0.0%
Locations	In Country	283	100.0%	0.0%	0.0%	0.0%
	Out Country	17	100.0%	0.0%	0.0%	0.0%
	Missing Location	48	100.0%	0.0%	0.0%	0.0%
Roles	Combat Afghan & Outside MSB	246	100.0%	0.0%	0.0%	0.0%
	Inside MSB	37	100.0%	0.0%	0.0%	0.0%
	Outside Afghan	17	100.0%	0.0%	0.0%	0.0%
	Missing Roles	48	100.0%	0.0%	0.0%	0.0%
Duty	Regular	328	100.0%	0.0%	0.0%	0.0%
	Reservist	11	100.0%	0.0%	0.0%	0.0%
	Missing Duty	9	100.0%	0.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	82	100.0%	0.0%	0.0%	0.0%
	1 - 2 Prior Deployments	125	100.0%	0.0%	0.0%	0.0%
	3 - 4 Prior Deployments	45	100.0%	0.0%	0.0%	0.0%
	5+ Prior Deployments	42	100.0%	0.0%	0.0%	0.0%
	Missing No. Prior Deployments	54	100.0%	0.0%	0.0%	0.0%

Table 15.6 Difference between proportions of respondents who only completed pre-deployment and those who completed pre- and post-deployment for IgG positive helicobacter pylori

Characteristics	Sub groups	Positive Helicobacter Pylori IgG				
		Pre Only N	IgG at pre deployment %	Pre and Post N	IgG at pre deployment %	Difference %
Total Sample		228	11.8%	348	9.8%	-2.0%
Gender	Female	5	0.0%	5	40.0%	40.0%
	Male	223	12.1%	343	9.3%	-2.8%
Age	16-24	74	9.5%	164	9.8%	0.3%
	25-34	121	10.7%	132	9.8%	-0.9%
	35-44	29	24.1%	42	11.9%	-12.2%
	45-54	4	0.0%	10	0.0%	0.0%
Service	Navy	14	14.3%	18	0.0%	-14.3%
	Army	211	11.4%	330	10.3%	-1.1%
Rank	Officer	30	6.7%	19	0.0%	-6.7%
	NCO	89	12.4%	109	11.9%	-0.5%
	Other ranks	109	12.8%	220	9.5%	-3.3%
Duty	Regular	194	13.9%	328	10.1%	-3.8%
	Reservist	19	0.0%	11	0.0%	0.0%
	Missing Duty	15	0.0%	9	11.1%	11.1%
Prior Deployments	No Prior Deployments	47	8.5%	82	12.2%	3.7%
	1 - 2 Prior Deployments	75	13.3%	125	12.0%	-1.3%
	3 - 4 Prior Deployments	35	25.7%	45	8.9%	-16.8%
	5+ Prior Deployments	33	3.0%	42	7.1%	4.1%
	Missing No. Prior Deployments	38	7.9%	54	3.7%	-4.2%

Table 15.7: Change between pre- and post-deployment in proportions of respondents who completed pre- and post-deployment for IgG positive helicobacter pylori

Characteristics	Sub groups	Total N	Positive Helicobacter Pylori IgG			
			None %	at only Pre %	at only Post %	at Both pre and post %
Total Sample		348	87.4%	1.7%	2.9%	8.0%
Gender	Female	5	60.0%	20.0%	0.0%	20.0%
	Male	343	87.7%	1.5%	2.9%	7.9%
Age	16-24	164	86.6%	2.4%	3.7%	7.3%
	25-34	132	87.9%	1.5%	2.3%	8.3%
	35-44	42	85.7%	0.0%	2.4%	11.9%
	45-54	10	100.0%	0.0%	0.0%	0.0%
Service	Navy	18	94.4%	0.0%	5.6%	0.0%
	Army	330	87.0%	1.8%	2.7%	8.5%
Rank	Officer	19	100.0%	0.0%	0.0%	0.0%
	NCO	109	85.3%	0.9%	2.8%	11.0%
	Other ranks	220	87.2%	2.3%	3.2%	7.3%
Locations	In Country	283	86.2%	2.1%	2.5%	9.2%
	Out Country	17	100.0%	0.0%	0.0%	0.0%
	Missing Location	48	89.6%	0.0%	6.2%	4.2%
Roles	Combat Afghan & Outside MSB	246	87.4%	1.6%	1.6%	9.4%
	Inside MSB	37	78.4%	5.4%	8.1%	8.1%
	Outside Afghan	17	100.0%	0.0%	0.0%	0.0%
	Missing Roles	48	89.6%	0.0%	6.2%	4.2%
Duty	Regular	328	87.2%	1.8%	2.8%	8.2%
	Reservist	11	100.0%	0.0%	0.0%	0.0%
	Missing Duty	9	77.8%	0.0%	11.1%	11.1%
Prior Deployments	No Prior Deployments	82	85.4%	4.9%	2.4%	7.3%
	1 - 2 Prior Deployments	125	84.8%	1.6%	3.2%	10.4%
	3 - 4 Prior Deployments	45	86.7%	0.0%	4.4%	8.9%
	5+ Prior Deployments	42	90.5%	0.0%	2.4%	7.1%

	Missing No. Prior Deployments	54	94.4%	0.0%	1.9%	3.7%
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Table 15.8: Difference between proportions of respondents who only completed pre-deployment and those who completed pre- and post-deployment for IgG positive epstein barr virus

Characteristics	Sub groups	Positive Epstein Barr IgGG				
		Pre Only N	IgG at pre deployment %	Pre and Post N	IgG at pre deployment %	Difference %
Total Sample		228	90.4%	348	88.5%	-1.9%
Gender	Female	5	100.0%	5	100.0%	0.0%
	Male	223	90.1%	343	88.3%	-1.8%
Age	16-24	74	86.5%	164	84.8%	-1.7%
	25-34	121	91.7%	132	90.2%	-1.5%
	35-44	29	93.1%	42	95.2%	2.1%
	45-54	4	100.0%	10	100.0%	0.0%
Service	Navy	14	92.9%	18	100.0%	7.1%
	Army	211	90.0%	330	87.9%	-2.1%
Rank	Officer	30	93.3%	19	94.7%	1.4%
	NCO	89	92.1%	109	92.7%	0.6%
	Other ranks	109	88.1%	220	85.9%	-2.2%
Locations	In Country	89	91.0%	283	88.7%	-2.3%
	Out Country	9	88.9%	17	100.0%	11.1%
	Missing Location	130	90.0%	48	83.3%	-6.7%
Roles	Combat Afghan & Outside MSB	70	90.0%	246	88.2%	-1.8%
	Inside MSB	19	94.7%	37	91.9%	-2.8%
	Outside Afghan	9	88.9%	17	100.0%	11.1%
	Missing Roles	130	90.0%	48	83.3%	-6.7%
Duty	Regular	194	91.2%	328	89.3%	-1.9%
	Reservist	19	78.9%	11	81.8%	2.9%
	Missing Duty	15	93.3%	9	66.7%	-26.6%
Prior Deployments	No Prior Deployments	47	89.4%	82	84.1%	-5.3%
	1 - 2 Prior Deployments	75	88.0%	125	88.0%	0.0%
	3 - 4 Prior Deployments	35	94.3%	45	91.1%	-3.2%

	5+ Prior Deployments	33	90.9%	42	97.6%	6.7%
	Missing No. Prior Deployments	38	92.1%	54	87.0%	-5.1%

Table 15.9: Change between pre- and post-deployment in proportions of respondents who completed pre- and post-deployment for IgG positive Epstein barr virus

Characteristics	Sub groups	Total N	Positive Epstein Barr IgG			
			None %	at only Pre %	at only Post %	at Both %
Total Sample		348	10.1%	1.7%	1.4%	86.8%
Gender	Female	5	0.0%	0.0%	0.0%	100.0%
	Male	343	10.2%	1.7%	1.5%	86.6%
Age	16-24	164	12.2%	3.1%	3.0%	81.7%
	25-34	132	9.8%	0.8%	0.0%	89.4%
	35-44	42	4.8%	0.0%	0.0%	95.2%
	45-54	10	0.0%	0.0%	0.0%	100.0%
Service	Navy	18	0.0%	5.6%	0.0%	94.4%
	Army	330	10.6%	1.5%	1.5%	86.4%
Rank	Officer	19	5.3%	0.0%	0.0%	94.7%
	NCO	109	7.4%	1.8%	0.0%	90.8%
	Other ranks	220	11.8%	1.8%	2.3%	84.1%
Locations	In Country	283	10.6%	1.4%	0.7%	87.3%
	Out Country	17	0.0%	5.9%	0.0%	94.1%
	Missing Location	48	10.4%	2.1%	6.3%	81.2%
Roles	Combat Afghan & Outside MSB	246	11.0%	1.6%	0.8%	86.6%
	Inside MSB	37	8.1%	0.0%	0.0%	91.9%
	Outside Afghan	17	0.0%	5.9%	0.0%	94.1%
	Missing Roles	48	10.4%	2.1%	6.3%	81.2%
Duty	Regular	328	9.5%	1.8%	1.2%	87.5%
	Reservist	11	18.2%	0.0%	0.0%	81.8%
	Missing Duty	9	22.2%	0.0%	11.1%	66.7%
Prior Deployments	No Prior Deployments	82	14.7%	2.4%	1.2%	81.7%
	1 - 2 Prior Deployments	125	9.6%	0.8%	2.4%	87.2%
	3 - 4 Prior Deployments	45	8.9%	2.2%	0.0%	88.9%
	5+ Prior Deployments	42	2.4%	0.0%	0.0%	97.6%
	Missing No. Prior Deployments	54	11.1%	3.7%	1.9%	83.3%

Table 15.10: Difference between proportions of respondents who only completed pre-deployment and those who completed pre- and post-deployment for IgG positive cytomegalovirus

Characteristics	Sub groups	Positive Cytomegalovirus antibody IgG				
		Pre Only N	IgG at pre deployment %	Pre and Post N	IgG at pre deployment %	Difference %
Total Sample		228	41.7%	348	46.3%	4.6%
Gender	Female	5	40.0%	5	100.0%	60.0%
	Male	223	41.7%	343	45.5%	3.8%
Age	16-24	74	37.8%	164	44.5%	6.7%
	25-34	121	38.8%	132	50.0%	11.2%
	35-44	29	62.1%	42	35.7%	-26.4%
	45-54	4	50.0%	10	70.0%	20.0%
Service	Navy	14	57.1%	18	55.6%	-1.5%
	Army	211	40.3%	330	45.8%	5.5%
Rank	Officer	30	30.0%	19	42.1%	12.1%
	NCO	89	46.1%	109	47.7%	1.6%
	Other ranks	109	41.3%	220	45.9%	4.6%
Locations	In Country	89	36.0%	283	45.9%	9.9%
	Out Country	9	66.7%	17	58.8%	-7.9%
	Missing Location	130	43.8%	48	43.8%	0.0%
Roles	Combat & Outside MSB	70	37.1%	246	45.5%	8.4%
	Inside MSB	19	31.6%	37	48.6%	17.0%
	Outside Afghan	9	66.7%	17	58.8%	-7.9%
	Missing Roles	130	43.8%	48	43.8%	0.0%
Duty	Regular	194	40.7%	328	47.0%	6.3%
	Reservist	19	42.1%	11	27.3%	-14.8%
	Missing Duty	15	53.3%	9	44.4%	-8.9%
Prior Deployments	No Prior Deployments	47	38.3%	82	61.0%	22.7%
	1 - 2 Prior Deployments	75	41.3%	125	44.0%	2.7%
	3 - 4 Prior Deployments	35	31.4%	45	42.2%	10.8%

	5+ Prior Deployments	33	54.5%	42	38.1%	-16.4%
	Missing No. Prior Deployments	38	44.7%	54	38.9%	-5.8%

Table 15.11: Change between pre- and post-deployment in proportions of respondents who completed pre- and post-deployment for IgG positive cytomegalovirus

Characteristics	Sub groups	Total N	Positive Cytomegalovirus antibody IgG			
			None %	at only Pre %	at only Post %	at Both %
Total Sample		348	52.0%	1.2%	1.7%	45.1%
Gender	Female	5	0.0%	20.0%	0.0%	80.0%
	Male	343	52.8%	0.9%	1.7%	44.6%
Age	16-24	164	54.3%	2.4%	1.2%	42.1%
	25-34	132	47.7%	0.0%	2.3%	50.0%
	35-44	42	61.9%	0.0%	2.4%	35.7%
	45-54	10	30.0%	0.0%	0.0%	70.0%
Service	Navy	18	33.3%	5.6%	11.1%	50.0%
	Army	330	53.0%	0.9%	1.2%	44.9%
Rank	Officer	19	52.6%	0.0%	5.3%	42.1%
	NCO	109	50.5%	0.0%	1.8%	47.7%
	Other ranks	220	52.7%	1.8%	1.4%	44.1%
Locations	In Country	283	53.0%	1.1%	1.1%	44.8%
	Out Country	17	35.3%	5.9%	5.9%	52.9%
	Missing Location	48	52.1%	0.0%	4.2%	43.7%
Roles	Combat Afghan & Outside MSB	246	53.7%	0.8%	0.8%	44.7%
	Inside MSB	37	48.7%	2.7%	2.7%	45.9%
	Outside Afghan	17	35.3%	5.9%	5.9%	52.9%
	Missing Roles	48	52.1%	0.0%	4.2%	43.7%
Duty	Regular	328	51.2%	1.2%	1.8%	45.8%
	Reservist	11	72.7%	0.0%	0.0%	27.3%
	Missing Duty	9	55.6%	0.0%	0.0%	44.4%
Prior Deployments	No Prior Deployments	82	36.6%	2.4%	2.4%	58.6%
	1 - 2 Prior Deployments	125	55.2%	0.8%	0.8%	43.2%
	3 - 4 Prior Deployments	45	53.3%	0.0%	4.5%	42.2%
	5+ Prior Deployments	42	59.5%	0.0%	2.4%	38.1%

	Missing No. Prior Deployments	54	61.1%	1.9%	0.0%	37.0%
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Table 15.12: Difference between proportions of respondents who only completed pre-deployment and those who completed pre- and post-deployment for IgG positive herpes simplex type 1

Characteristics	Sub groups	Positive Herpes Simplex Type 1 IgG				
		Pre Only N	IgG at pre deployment %	Pre and Post N	IgG at pre deployment %	Difference %
Total Sample		228	41.7%	348	44.3%	2.6%
Gender	Female	5	80.0%	5	60.0%	-20.0%
	Male	223	40.8%	343	44.0%	3.2%
Age	16-24	74	36.5%	164	30.5%	-6.0%
	25-34	121	40.5%	132	50.8%	10.3%
	35-44	29	58.6%	42	69.0%	10.4%
	45-54	4	50.0%	10	80.0%	30.0%
Service	Navy	14	64.3%	18	44.4%	-19.9%
	Army	211	39.8%	330	44.2%	4.4%
Rank	Officer	30	30.0%	19	52.6%	22.6%
	NCO	89	49.4%	109	52.3%	2.9%
	Other ranks	109	38.5%	220	39.5%	1.0%
Locations	In Country	89	43.8%	283	45.2%	1.4%
	Out Country	9	66.7%	17	47.1%	-19.6%
	Missing Location	130	38.5%	48	37.5%	-1.0%
Roles	Combat Afghan & Outside MSB	70	38.6%	246	43.1%	4.5%
	Inside MSB	19	63.2%	37	59.5%	-3.7%
	Outside Afghan	9	66.7%	17	47.1%	-19.6%
	Missing Roles	130	38.5%	48	37.5%	-1.0%
Duty	Regular	194	41.2%	328	44.2%	3.0%
	Reservist	19	26.3%	11	54.5%	28.2%
	Missing Duty	15	66.7%	9	33.3%	-33.4%
Prior Deployments	No Prior Deployments	47	34.0%	82	34.1%	0.1%
	1 - 2 Prior Deployments	75	44.0%	125	45.6%	1.6%
	3 - 4 Prior Deployments	35	34.3%	45	57.8%	23.5%

	4+ Prior Deployments	33	51.5%	42	61.9%	10.4%
	Missing No. Prior Deployments	38	44.7%	54	31.5%	-13.2%

Table 15.13 Change between pre- and post-deployment in proportions of respondents who completed pre- and post-deployment for IgG positive herpes simplex type 1

Characteristics	Sub groups	Total N	Positive Herpes Simplex Type 1 IgG			
			None %	at only Pre %	at only Post %	at Both %
Total Sample		348	54.6%	7.5%	1.1%	36.8%
Gender	Female	5	40.0%	0.0%	0.0%	60.0%
	Male	343	54.8%	7.6%	1.2%	36.4%
Age	16-24	164	67.1%	6.1%	2.4%	24.4%
	25-34	132	49.3%	8.3%	0.0%	42.4%
	35-44	42	31.0%	11.9%	0.0%	57.1%
	45-54	10	20.0%	0.0%	0.0%	80.0%
Service	Navy	18	55.5%	5.6%	0.0%	38.9%
	Army	330	54.5%	7.6%	1.2%	36.7%
Rank	Officer	19	47.4%	10.5%	0.0%	42.1%
	NCO	109	47.7%	7.3%	0.0%	45.0%
	Other ranks	220	58.6%	7.3%	1.8%	32.3%
Locations	In Country	283	53.4%	8.8%	1.4%	36.4%
	Out Country	17	52.9%	5.9%	0.0%	41.2%
	Missing Location	48	62.5%	0.0%	0.0%	37.5%
Roles	Combat Afghan & Outside MSB	246	55.3%	9.4%	1.6%	33.7%
	Inside MSB	37	40.5%	5.4%	0.0%	54.1%
	Outside Afghan	17	52.9%	5.9%	0.0%	41.2%
	Missing Roles	48	62.5%	0.0%	0.0%	37.5%
Duty	Regular	328	54.6%	7.6%	1.2%	36.6%
	Reservist	11	45.4%	9.1%	0.0%	45.5%
	Missing Duty	9	66.7%	0.0%	0.0%	33.3%
Prior Deployments	No Prior Deployments	82	63.4%	4.9%	2.4%	29.3%
	1 - 2 Prior Deployments	125	53.6%	9.6%	0.8%	36.0%
	3 - 4 Prior Deployments	45	42.2%	8.9%	0.0%	48.9%
	4+ Prior Deployments	42	38.1%	4.8%	0.0%	57.1%
	Missing No. Prior Deployments	54	66.7%	7.4%	1.8%	24.1%

Table 15.14: Difference between proportions of respondents who only completed pre-deployment and those who completed pre- and post-deployment for IgG positive mycoplasma

Characteristics	Sub groups	Positive Mycoplasma IgG				
		Pre Only N	IgG at pre deployment %	Pre and Post N	IgG at pre deployment %	Difference %
Total Sample		228	71.1%	348	71.3%	0.2%
Gender	Female	5	60.0%	5	80.0%	20.0%
	Male	223	71.3%	343	71.1%	-0.2%
Age	16-24	74	66.2%	164	72.0%	5.8%
	25-34	121	71.1%	132	71.2%	0.1%
	35-44	29	82.8%	42	71.4%	-11.4%
	45-54	4	75.0%	10	60.0%	-15.0%
Service	Navy	14	85.7%	18	72.2%	-13.5%
	Army	211	70.1%	330	71.2%	1.1%
Rank	Officer	30	60.0%	19	68.4%	8.4%
	NCO	89	77.5%	109	67.9%	-9.6%
	Other ranks	109	68.8%	220	73.2%	4.4%
Locations	In Country	89	70.8%	283	71.7%	0.9%
	Out Country	9	77.8%	17	76.5%	-1.3%
	Missing Location	130	70.8%	48	66.7%	-4.1%
Roles	Combat Afghan & Outside MSB	70	67.1%	246	71.1%	4.0%
	Inside MSB	19	84.2%	37	75.7%	-8.5%
	Outside Afghan	9	77.8%	17	76.5%	-1.3%
	Missing Roles	130	70.8%	48	66.7%	-4.1%
Duty	Regular	194	70.1%	328	72.0%	1.9%
	Reservist	19	73.7%	11	63.6%	-10.1%
	Missing Duty	15	80.0%	9	55.6%	-24.4%
Prior Deployments	No Prior Deployments	47	59.6%	82	72.0%	12.4%
	1 - 2 Prior Deployments	75	64.0%	125	70.4%	6.4%
	3 - 4 Prior Deployments	35	88.6%	45	68.9%	-19.7%

	5+ Prior Deployments	33	72.7%	42	76.2%	3.5%
	Missing No. Prior Deployments	38	81.6%	54	70.4%	-11.2%

Table 15.15: Change between pre- and post-deployment in proportions of respondents who completed pre- and post-deployment for IgG positive mycoplasma

Characteristics	Sub groups	Total N	Positive Mycoplasma IgG			
			None %	at only Pre %	at only Post %	at Both %
Total Sample		348	20.1%	12.4%	8.6%	58.9%
Gender	Female	5	0.0%	20.0%	20.0%	60.0%
	Male	343	20.4%	12.2%	8.5%	58.9%
Age	16-24	164	18.3%	15.8%	9.8%	56.1%
	25-34	132	20.5%	9.1%	8.3%	62.1%
	35-44	42	23.8%	9.5%	4.8%	61.9%
	45-54	10	30.0%	10.0%	10.0%	50.0%
Service	Navy	18	27.8%	0.0%	0.0%	72.2%
	Army	330	19.7%	13.0%	9.1%	58.2%
Rank	Officer	19	26.3%	10.5%	5.3%	57.9%
	NCO	109	20.2%	7.3%	11.9%	60.6%
	Other ranks	220	19.5%	15.0%	7.3%	58.2%
Locations	In Country	283	19.8%	13.4%	8.5%	58.3%
	Out Country	17	23.5%	0.0%	0.0%	76.5%
	Missing Location	48	20.8%	10.4%	12.5%	56.3%
Roles	Combat Afghan & Outside MSB	246	20.7%	12.6%	8.1%	58.6%
	Inside MSB	37	13.5%	18.9%	10.8%	56.8%
	Outside Afghan	17	23.5%	0.0%	0.0%	76.5%
	Missing Roles	48	20.8%	10.4%	12.5%	56.3%
Duty	Regular	328	19.5%	12.5%	8.5%	59.5%
	Reservist	11	36.4%	9.1%	0.0%	54.5%
	Missing Duty	9	22.2%	11.1%	22.2%	44.5%
Prior Deployments	No Prior Deployments	82	18.3%	14.6%	9.8%	57.3%
	1 - 2 Prior Deployments	125	21.6%	12.8%	8.0%	57.6%
	3 - 4 Prior Deployments	45	24.4%	17.8%	6.7%	51.1%
	5+ Prior Deployments	42	16.7%	9.5%	7.1%	66.7%
	Missing No. Prior Deployments	54	18.5%	5.6%	11.1%	64.8%

Table 15.6: Difference between proportions of respondents who only completed pre-deployment and those who completed pre- and post-deployment for IgG positive chlamydia

Characteristics	Sub groups	Positive Chlamydia IgG				
		Pre Only N	IgG at pre deployment %	Pre and Post N	IgG at pre deployment %	Difference %
Total Sample		228	62.3%	348	64.1%	1.8%
Gender	Female	5	60.0%	5	80.0%	20.0%
	Male	223	62.3%	343	63.8%	1.5%
Age	16-24	74	56.8%	164	59.1%	2.3%
	25-34	121	62.0%	132	63.6%	1.6%
	35-44	29	75.9%	42	81.0%	5.1%
	45-54	4	75.0%	10	80.0%	5.0%
Service	Navy	14	50.0%	18	61.1%	11.1%
	Army	211	63.0%	330	64.2%	1.2%
Rank	Officer	30	60.0%	19	73.7%	13.7%
	NCO	89	64.0%	109	68.8%	4.8%
	Other ranks	109	61.5%	220	60.9%	-0.6%
Locations	In Country	89	66.3%	283	65.0%	-1.3%
	Out Country	9	55.6%	17	64.7%	9.1%
	Missing Location	130	60.0%	48	58.3%	-1.7%
Roles	Combat Afghan & Outside MSB	70	62.9%	246	63.8%	0.9%
	Inside MSB	19	78.9%	37	73.0%	-5.9%
	Outside Afghan	9	55.6%	17	64.7%	9.1%
	Missing Roles	130	60.0%	48	58.3%	-1.7%
Duty	Regular	194	62.4%	328	64.9%	2.5%
	Reservist	19	63.2%	11	45.5%	-17.7%
	Missing Duty	15	60.0%	9	55.6%	-4.4%
Prior Deployments	No Prior Deployments	47	61.7%	82	54.9%	-6.8%
	1 - 2 Prior Deployments	75	62.7%	125	65.6%	2.9%
	3 - 4 Prior Deployments	35	54.3%	45	68.9%	14.6%
	5+ Prior Deployments	33	75.8%	42	69.0%	-6.8%

	Missing No. Prior Deployments	38	57.9%	54	66.7%	8.8%
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Table 15.17: Change between pre- and post-deployment in proportions of respondents who completed pre- and post-deployment for IgG positive chlamydia

Characteristics	Sub groups	Total N	Positive Chlamydia IgG			
			None %	at only Pre %	at only Post %	at Both %
Total Sample		348	31.6%	1.2%	4.3%	62.9%
Gender	Female	5	0.0%	0.0%	20.0%	80.0%
	Male	343	32.0%	1.2%	4.1%	62.7%
Age	16-24	164	34.8%	1.2%	6.1%	57.9%
	25-34	132	32.6%	1.5%	3.8%	62.1%
	35-44	42	19.0%	0.0%	0.0%	81.0%
	45-54	10	20.0%	0.0%	0.0%	80.0%
Service	Navy	18	38.9%	5.6%	0.0%	55.5%
	Army	330	31.2%	0.9%	4.6%	63.3%
Rank	Officer	19	21.0%	0.0%	5.3%	73.7%
	NCO	109	26.6%	0.9%	4.6%	67.9%
	Other ranks	220	35.0%	1.4%	4.1%	59.5%
Locations	In Country	283	30.8%	0.7%	4.2%	64.3%
	Out Country	17	35.3%	5.9%	0.0%	58.8%
	Missing Location	48	35.4%	2.1%	6.3%	56.2%
Roles	Combat Afghan & Outside MSB	246	31.7%	0.8%	4.5%	63.0%
	Inside MSB	37	24.3%	0.0%	2.7%	73.0%
	Outside Afghan	17	35.3%	5.9%	0.0%	58.8%
	Missing Roles	48	35.4%	2.1%	6.3%	56.2%
Duty	Regular	328	30.5%	1.2%	4.6%	63.7%
	Reservist	11	54.5%	0.0%	0.0%	45.5%
	Missing Duty	9	44.4%	0.0%	0.0%	55.6%
Prior Deployments	No Prior Deployments	82	41.5%	2.4%	3.7%	52.4%
	1 - 2 Prior Deployments	125	29.6%	0.8%	4.8%	64.8%
	3 - 4 Prior Deployments	45	24.4%	2.2%	6.7%	66.7%
	5+ Prior Deployments	42	26.2%	0.0%	4.8%	69.0%
	Missing No. Prior Deployments	54	31.5%	0.0%	1.8%	66.7%

Appendix W

Chapter Sixteen

Chapter Sixteen – Biochemistry

Table 16.1: Mean and risk categories for serum lead levels at pre-deployment

Characteristics	Sub groups	Pre Deployment	Mean	Normal Flag %	
		N		Normal %	Abnormal %
Total Sample		596	0.12	100.0%	0.0%
Gender	Female	10	0.10	100.0%	0.0%
	Male	586	0.12	100.0%	0.0%
Age	16-24	250	0.12	100.0%	0.0%
	25-34	259	0.12	100.0%	0.0%
	35-44	73	0.12	100.0%	0.0%
	45-54	14	0.13	100.0%	0.0%
Service	Navy	32	0.11	100.0%	0.0%
	Army	561	0.12	100.0%	0.0%
	Air Force	3	0.11	100.0%	0.0%
Rank	Officer	49	0.11	100.0%	0.0%
	NCO	201	0.12	100.0%	0.0%
	Other ranks	346	0.13	100.0%	0.0%
Duty	Regular	540	0.12	100.0%	0.0%
	Reservist	30	0.14	100.0%	0.0%
	Missing Duty	26	0.13	100.0%	0.0%
Prior Deployments	No Prior Deployments	133	0.11	100.0%	0.0%
	1 - 2 Prior Deployments	208	0.12	100.0%	0.0%
	3 - 4 Prior Deployments	83	0.12	100.0%	0.0%
	5+ Prior Deployments	75	0.13	100.0%	0.0%
	Missing No. Prior Deployments	97	0.12	100.0%	0.0%

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 16.2: Comparison of Hb1Ac mean scores at pre-deployment for respondents that only complete pre-deployment and respondents who completed at both time points

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference Mean (CI)
			Mean at Pre		Mean at Pre	
Total Sample		226	5.4	348	5.4	0.0 (0.0, 0.0)
Gender	Female	5	5.4	5	5.4	0.0 (-0.3, 0.2)
	Male	221	5.4	343	5.4	0.0 (0.0, 0.0)
Age	16-24	74	5.4	164	5.4	0.0 (-0.1, 0.0)
	25-34	119	5.4	132	5.4	0.0 (0.0, 0.1)
	35-44	29	5.5	42	5.5	0.0 (-0.1, 0.1)
	45-54	4	5.8	10	5.5	-0.3 (-0.6, 0.0)
Service	Navy	14	5.4	18	5.4	0.0 (-0.2, 0.1)
	Army	209	5.4	330	5.4	0.0 (0.0, 0.0)
Rank	Officer	30	5.4	19	5.4	0.0 (-0.2, 0.1)
	NCO	87	5.5	109	5.5	0.0 (-0.1, 0.1)
	Other ranks	109	5.4	220	5.4	0.0 (-0.1, 0.0)
Duty	Regular	193	5.4	328	5.4	0.0 (-0.1, 0.0)
	Reservist	18	5.4	11	5.5	0.1 (-0.1, 0.2)
	Missing Duty	15	5.4	9	5.5	0.1 (-0.1, 0.3)
Prior Deployments	No Prior Deployments	47	5.4	82	5.4	0.0 (-0.1, 0.0)
	1 - 2 Prior Deployments	74	5.4	125	5.4	0.0 (-0.1, 0.1)
	3 - 4 Prior Deployments	35	5.4	45	5.4	0.0 (-0.1, 0.1)
	5+ Prior Deployments	32	5.4	42	5.5	0.1 (0.0, 0.2)
	Missing No. Prior Deployments	38	5.5	54	5.4	0.0 (-0.1, 0.0)

(p = 0.64)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 16.3: Comparison of random blood glucose mean scores at pre-deployment for respondents that only complete pre-deployment and respondents who completed at both time points

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference
			Mean at Pre		Mean at Pre	Mean (CI)
Total Sample		228	5.1	348	5.1	0.0 (-0.1, 0.1)
Gender	Female	5	4.8	5	4.8	0.0 (-0.6, 0.6)
	Male	223	5.1	343	5.1	0.0 (-0.1, 0.1)
Age	16-24	74	5.0	164	5.0	0.0 (-0.2, 0.2)
	25-34	121	5.0	132	5.0	0.0 (-0.1, 0.2)
	35-44	29	5.4	42	5.3	-0.1 (-0.5, 0.1)
	45-54	4	6.1	10	5.3	-0.8 (-2.5, 0.9)
Service	Navy	14	5.4	18	5.1	-0.3 (-0.9, 0.3)
	Army	211	5.1	330	5.1	0.0 (-0.1, 0.1)
Rank	Officer	30	5.0	19	5.3	0.3 (-0.1, 0.6)
	NCO	89	5.2	109	5.1	-0.1 (-0.3, 0.1)
	Other ranks	109	5.0	220	5.0	0.0 (-0.1, 0.2)
Duty	Regular	194	5.1	328	5.1	0.0 (-0.2, 0.1)
	Reservist	19	5.0	11	5.3	0.3 (-0.2, 0.8)
	Missing Duty	15	4.9	9	4.5	-0.4 (-1.1, 0.3)
Prior Deployments	No Prior Deployments	47	5.0	82	5.1	0.1 (-0.1, 0.3)
	1 - 2 Prior Deployments	75	5.1	125	5.1	0.0 (-0.1, 0.3)
	3 - 4 Prior Deployments	35	5.0	45	4.9	-0.1 (-0.4, 0.2)
	5+ Prior Deployments	33	5.2	42	5.2	0.0 (-0.3, 0.2)
	Missing No. Prior Deployments	38	5.2	54	5.0	-0.2 (-0.6, 0.1)

(p=0.74)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 16.4: Changes to Hb1Ac risk categories for respondents who completed at both time points

Characteristics	Sub groups	Pre-Post Deployment	Normal at	High at Pre %	High at	Hight at
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		N	both %		Post %	Both %
Total Sample		348	100.0%	0.0%	0.0%	0.0%
Gender	Female	5	100.0%	0.0%	0.0%	0.0%
	Male	343	100.0%	0.0%	0.0%	0.0%
Age	16-24	164	100.0%	0.0%	0.0%	0.0%
	25-34	132	100.0%	0.0%	0.0%	0.0%
	35-44	42	100.0%	0.0%	0.0%	0.0%
	45-54	10	100.0%	0.0%	0.0%	0.0%
Service	Navy	18	100.0%	0.0%	0.0%	0.0%
	Army	330	100.0%	0.0%	0.0%	0.0%
Rank	Officer	19	100.0%	0.0%	0.0%	0.0%
	NCO	109	100.0%	0.0%	0.0%	0.0%
	Other ranks	220	100.0%	0.0%	0.0%	0.0%
Locations	In Country	283	100.0%	0.0%	0.0%	0.0%
	Out Country	17	100.0%	0.0%	0.0%	0.0%
	Missing Location	48	100.0%	0.0%	0.0%	0.0%
Roles	Combat Afghan & Outside MSB	246	100.0%	0.0%	0.0%	0.0%
	Inside MSB	37	100.0%	0.0%	0.0%	0.0%
	Outside Afghan	17	100.0%	0.0%	0.0%	0.0%
	Missing Roles	48	100.0%	0.0%	0.0%	0.0%
Duty	Regular	328	100.0%	0.0%	0.0%	0.0%
	Reservist	11	100.0%	0.0%	0.0%	0.0%
	Missing Duty	9	100.0%	0.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	82	100.0%	0.0%	0.0%	0.0%
	1 - 2 Prior Deployments	125	100.0%	0.0%	0.0%	0.0%
	3 - 4 Prior Deployments	45	100.0%	0.0%	0.0%	0.0%
	5+ Prior Deployments	42	100.0%	0.0%	0.0%	0.0%
	Missing No. Prior Deployments	54	100.0%	0.0%	0.0%	0.0%

Table 16.5: Changes in random blood glucose risk categories for respondents who completed at both time points

Characteristics	Sub groups	Pre-Post Deployment	No Change %	Increase 1 Step %	Increase 2 Steps %	Decrease 1 Step %	Decrease 2 Step %
		N					
Total Sample		348	97.1%	2.0%	0.0%	0.9%	0.0%
Gender	Female	5	100.0%	0.0%	0.0%	0.0%	0.0%
	Male	343	97.1%	2.0%	0.0%	0.9%	0.0%
Age	16-24	164	97.0%	1.8%	0.0%	1.2%	0.0%
	25-34	132	97.7%	1.5%	0.0%	0.8%	0.0%
	35-44	42	95.2%	4.8%	0.0%	0.0%	0.0%
	45-54	10	100.0%	0.0%	0.0%	0.0%	0.0%
Service	Navy	18	100.0%	0.0%	0.0%	0.0%	0.0%
	Army	330	97.0%	2.1%	0.0%	0.9%	0.0%
Rank	Officer	19	100.0%	0.0%	0.0%	0.0%	0.0%
	NCO	109	97.2%	2.8%	0.0%	0.0%	0.0%
	Other ranks	220	96.8%	1.8%	0.0%	1.4%	0.0%
Locations	In Country	283	96.8%	2.1%	0.0%	1.1%	0.0%
	Out Country	17	100.0%	0.0%	0.0%	0.0%	0.0%
	Missing Location	48	97.9%	2.1%	0.0%	0.0%	0.0%
Roles	Combat Afghan & Outside MSB	246	96.8%	2.0%	0.0%	1.2%	0.0%
	Inside MSB	37	97.3%	2.7%	0.0%	0.0%	0.0%
	Outside Afghan	17	100.0%	0.0%	0.0%	0.0%	0.0%
	Missing Roles	48	97.9%	2.1%	0.0%	0.0%	0.0%
Duty	Regular	328	97.3%	1.8%	0.0%	0.9%	0.0%
	Reservist	11	90.9%	9.1%	0.0%	0.0%	0.0%
	Missing Duty	9	100.0%	0.0%	0.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	82	95.1%	3.7%	0.0%	1.2%	0.0%
	1 - 2 Prior Deployments	125	98.4%	0.8%	0.0%	0.8%	0.0%
	3 - 4 Prior Deployments	45	100.0%	0.0%	0.0%	0.0%	0.0%

	5+ Prior Deployments	42	92.9%	7.1%	0.0%	0.0%	0.0%
	Missing No. Prior Deployments	54	98.1%	0.0%	0.0%	1.9%	0.0%

Table 16.6: Comparison of mean creatine kinase scores at pre-deployment between responders who only completed pre-deployment and those who responded at both time points.

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference
			Mean at Pre		Mean at Pre	Mean (CI)
Total Sample		228	242.4	348	376.2	133.8 (53.2, 214.4)
Gender	Female	5	192.8	5	185.4	-7.4 (-230.3, 215.5)
	Male	223	243.6	343	379.0	135.4 (53.6, 217.3)
Age	16-24	74	244.7	164	417.6	172.9 (49.5, 296.5)
	25-34	121	259.2	132	385.9	126.7 (-4.6, 258.2)
	35-44	29	178.5	42	236.1	57.6 (-28.6, 143.7)
	45-54	4	159.5	10	157.7	-1.8 (-152.2, 148.6)
Service	Navy	14	159.6	18	305.2	145.6 (10.4, 280.7)
	Army	211	245.2	330	380.1	134.9 (49.8, 220.0)
Rank	Officer	30	282.4	19	413.9	131.5 (-176.7, 439.8)
	NCO	89	186.8	109	284.4	97.6 (0.9, 194.4)
	Other ranks	109	276.9	220	418.4	141.5 (19.1, 264.0)
Locations	In Country	89	260.0	283	390.6	130.6 (11.8, 249.3)
	Out Country	9	147.7	17	290.4	142.7 (2.8, 282.6)
	Missing Location	130	237.0	48	322.0	85.0 (-39.7, 209.8)
Roles	Combat Afghan & Outside MSB	70	292.3	246	414.8	122.5 (-19.0, 264.0)
	Inside MSB	19	141.2	37	229.6	88.4 (-56.3, 233.1)
	Outside Afghan	9	147.7	17	290.4	142.7 (2.8, 282.6)
	Missing Roles	130	237.0	48	322.0	85.0 (-39.7, 209.8)
Duty	Regular	194	238.1	328	385.3	147.2 (61.5, 233.0)
	Reservist	19	308.3	11	207.3	-101.0 (-331.2, 129.2)
	Missing Duty	15	215.7	9	251.9	36.2 (-115.7, 188.2)
Prior Deployments	No Prior Deployments	47	224.7	82	324.4	99.7 (7.0, 192.5)
	1 - 2 Prior Deployments	75	218.0	125	445.1	227.1 (74.1, 380.1)

	3 - 4 Prior Deployments	35	310.9	45	387.8	76.9 (-224.0, 377.9)
	5+ Prior Deployments	33	204.9	42	287.4	82.5 (-14.9, 179.9)
	Missing No. Prior Deployments	38	282.3	54	354.9	72.6 (-161.6, 306.8)

(p=0.012)

Table 16.7: Change in risk categories for creatine kinase for responders who completed both the pre- and post-deployment blood test

Characteristics	Sub groups	Pre-Post Deployment	No Change %	Increase %	Decrease %
		N			
Total Sample		348	39.9%	36.8%	23.3%
Gender	Female	5	80.0%	20.0%	0.0%
	Male	343	39.3%	37.1%	23.6%
Age	16-24	164	33.5%	42.7%	23.8%
	25-34	132	42.4%	31.9%	25.7%
	35-44	42	54.8%	30.9%	14.3%
	45-54	10	50.0%	30.0%	20.0%
Service	Navy	18	55.5%	16.7%	27.8%
	Army	330	39.1%	37.9%	23.0%
Rank	Officer	19	52.6%	15.8%	31.6%
	NCO	109	43.1%	40.4%	16.5%
	Other ranks	220	37.3%	36.8%	25.9%
Locations	In Country	283	38.8%	38.9%	22.3%
	Out Country	17	58.8%	17.7%	23.5%
	Missing Location	48	39.6%	31.3%	29.1%
Roles	Combat Afghan & Outside MSB	246	37.8%	38.2%	24.0%
	Inside MSB	37	46.0%	43.2%	10.8%
	Outside Afghan	17	58.8%	17.7%	23.5%
	Missing Roles	48	39.6%	31.3%	29.1%
Duty	Regular	328	39.6%	36.9%	23.5%
	Reservist	11	45.4%	45.5%	9.1%
	Missing Duty	9	44.5%	22.2%	33.3%
Prior Deployments	No Prior Deployments	82	42.7%	34.1%	23.2%
	1 - 2 Prior Deployments	125	35.2%	44.0%	20.8%
	3 - 4 Prior Deployments	45	42.2%	31.1%	26.7%

	5+ Prior Deployments	42	50.0%	28.6%	21.4%
	Missing No. Prior Deployments	54	37.0%	35.2%	27.8%

Table 16.8: Comparison of mean urea results at pre-deployment between responders who only completed pre-deployment and those who responded at both time points.

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference
			Mean at Pre		Mean at Pre	Mean (CI)
Total Sample		228	6.2	348	6.3	0.1 (-0.1, 0.4)
Gender	Female	5	5.4	5	5.3	-0.1 (-1.7, 1.4)
	Male	223	6.2	343	6.3	0.1 (-0.1, 0.4)
Age	16-24	74	6.1	164	6.3	0.2 (-0.2, 0.6)
	25-34	121	6.2	132	6.4	0.2 (-0.2, 0.5)
	35-44	29	6.2	42	6.0	-0.2 (-0.8, 0.4)
	45-54	4	5.8	10	6.4	0.6 (-1.3, 2.6)
Service	Navy	14	6.2	18	6.3	0.1 (-0.9, 1.1)
	Army	211	6.2	330	6.3	0.1 (-0.1, 0.4)
Rank	Officer	30	6.0	19	6.2	0.2 (-0.4, 0.9)
	NCO	89	6.1	109	6.2	0.1 (-0.3, 0.5)
	Other ranks	109	6.3	220	6.3	0.0 (-0.3, 0.4)
Locations	In Country	89	6.1	283	6.2	0.2 (-0.1, 0.5)
	Out Country	9	6.3	17	6.2	-0.1 (-0.9, 0.8)
	Missing Location	130	6.3	48	6.7	0.4 (-0.1, 0.9)
Prior Deployments	No Prior Deployments	47	6.0	82	6.3	0.3 (-0.3, 0.8)
	1 - 2 Prior Deployments	75	6.2	125	6.2	0.0 (-0.4, 0.4)
	3 - 4 Prior Deployments	35	6.2	45	6.4	0.2 (-0.4, 0.9)
	5+ Prior Deployments	33	6.5	42	6.7	0.2 (-0.5, 0.9)
	Missing No. Prior Deployments	38	6.2	54	6.2	0.0 (-0.6, 0.7)

(p=0.34)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 16.9: Comparison of mean creatinine results at pre-deployment between responders who only completed pre-deployment and those who responded at both time points

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference
			Mean at Pre		Mean at Pre	
Total Sample		228	90.2	348	89.8	-0.4 (-2.3, 1.6)
Gender	Female	5	71.4	5	77.6	6.2 (-8.0, 20.4)
	Male	223	90.6	343	90.0	-0.6 (-2.6, 1.3)
Age	16-24	74	90.4	164	89.7	-0.7 (-4.3, 2.9)
	25-34	121	89.7	132	90.2	0.5 (-2.3, 3.3)
	35-44	29	92.1	42	89.1	-3.0 (-8.0, 2.0)
	45-54	4	88.3	10	89.4	1.1 (-11.0, 13.3)
Service	Navy	14	82.2	18	90.5	8.3 (0.5, 16.1)
	Army	211	90.6	330	89.8	-0.8 (-2.8, 1.2)
Rank	Officer	30	90.7	19	88.6	-2.1 (-8.1, 3.9)
	NCO	89	89.1	109	89.4	0.3 (-2.8, 3.3)
	Other ranks	109	90.9	220	90.1	-0.8 (-3.7, 2.1)
Duty	Regular	194	91.1	328	89.6	-0.5 (-2.6, 1.6)
	Reservist	19	90.4	11	95.0	4.6 (-4.6, 13.8)
	Missing Duty	15	91.7	9	92.1	0.4 (-10.3, 11.1)
Prior Deployments	No Prior Deployments	47	87.6	82	86.8	-0.8 (-5.6, 3.9)
	1 - 2 Prior Deployments	75	89.4	125	89.8	0.4 (-2.9, 3.7)
	3 - 4 Prior Deployments	35	93.2	45	91.0	-2.2 (-7.6, 3.2)
	5+ Prior Deployments	33	91.6	42	93.1	1.5 (-3.7, 6.7)
	Missing No. Prior Deployments	38	90.9	54	90.8	-0.1 (-4.3, 4.1)

(p=0.70)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 16.10: Comparison of mean eGFR results at pre-deployment between responders who only completed pre-deployment and those who responded at both time points

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference
			Mean at Pre		Mean at Pre	Mean (CI)
Total Sample		228	84.3	346	84.6	0.3 (-1.0, 1.6)
Gender	Female	5	88.0	5	83.0	-5.0 (-16.9, 6.9)
	Male	223	84.2	341	84.6	0.4 (-0.9, 1.7)
Age	16-24	74	85.7	163	86.1	0.4 (-1.6, 2.5)
	25-34	121	84.8	132	84.1	-0.7 (-2.7, 1.2)
	35-44	29	79.4	41	81.8	2.4 (-1.7, 6.6)
	45-54	4	80.3	10	79.2	-1.1 (-12.7, 10.6)
Service	Navy	14	88.4	18	84.6	-3.8 (-7.8, 0.2)
	Army	211	84.2	328	84.6	0.4 (-0.9, 1.8)
Rank	Officer	30	84.4	19	85.9	1.5 (-2.5, 5.5)
	NCO	89	84.2	108	82.9	-1.3 (-3.5, 0.9)
	Other ranks	109	84.4	219	85.4	1.0 (-0.9, 2.8)
Duty	Regular	194	84.4	326	84.8	0.4 (-0.9, 1.9)
	Reservist	19	83.2	11	77.4	-5.8 (-14.3, 2.6)
	Missing Duty	15	85.0	9	85.3	0.3 (-7.1, 7.8)
Prior Deployments	No Prior Deployments	47	86.3	82	87.0	0.7 (-1.7, 3.3)
	1 - 2 Prior Deployments	75	85.0	124	85.2	0.2 (-2.0, 2.3)
	3 - 4 Prior Deployments	35	81.7	45	82.8	1.1 (-2.9, 5.2)
	5+ Prior Deployments	33	81.9	42	80.1	-1.8 (-5.8, 2.0)
	Missing No. Prior Deployments	38	85.1	53	84.7	-0.4 (-3.2, 2.5)

(p=0.65)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 16.11: Change in risk categories for urea for responders who completed both the pre- and post-deployment blood test

Characteristics	Sub groups	Pre-Post Deployment	Normal at both %	High at Pre %	High at Post %	High at Both %
		N				
Total Sample		348	75.3%	6.0%	12.9%	5.8%
Gender	Female	5	100.0%	0.0%	0.0%	0.0%
	Male	343	75.0%	6.1%	13.1%	5.8%
Age	16-24	164	70.7%	6.1%	17.7%	5.5%
	25-34	132	77.3%	3.8%	11.4%	7.5%
	35-44	42	85.7%	11.9%	2.4%	0.0%
	45-54	10	80.0%	10.0%	0.0%	10.0%
Service	Navy	18	88.9%	5.5%	5.6%	0.0%
	Army	330	74.5%	6.1%	13.3%	6.1%
Rank	Officer	19	73.7%	5.2%	15.8%	5.3%
	NCO	109	78.9%	5.5%	7.3%	8.3%
	Other ranks	220	73.6%	6.4%	15.5%	4.5%
Locations	In Country	283	76.0%	5.6%	13.1%	5.3%
	Out Country	17	94.1%	5.9%	0.0%	0.0%
	Missing Location	48	64.6%	8.3%	16.7%	10.4%
Roles	Combat Afghan & Outside MSB	246	74.4%	6.1%	13.4%	6.1%
	Inside MSB	37	86.5%	2.7%	10.8%	0.0%
	Outside Afghan	17	94.1%	5.9%	0.0%	0.0%
	Missing Roles	48	64.6%	8.3%	16.7%	10.4%
Duty	Regular	328	76.2%	6.1%	12.2%	5.5%
	Reservist	11	63.6%	9.1%	27.3%	0.0%
	Missing Duty	9	55.6%	0.0%	22.2%	22.2%
Prior Deployments	No Prior Deployments	82	79.3%	6.1%	9.7%	4.9%
	1 - 2 Prior Deployments	125	78.4%	2.4%	13.6%	5.6%
	3 - 4 Prior Deployments	45	71.1%	11.1%	13.3%	4.5%

	5+ Prior Deployments	42	66.7%	14.3%	9.5%	9.5%
	Missing No. Prior Deployments	54	72.2%	3.7%	18.5%	5.6%

Table 16.12: Change in risk categories for creatinine for responders who completed both the pre- and post-deployment blood test

Characteristics	Sub groups	Pre-Post Deployment	Normal at both %	High at Pre %	High at Post %	High at Both %
		N				
Total Sample		348	87.3%	2.9%	7.8%	2.0%
Gender	Female	5	80.0%	0.0%	20.0%	0.0%
	Male	343	87.5%	2.9%	7.6%	2.0%
Age	16-24	164	86.0%	3.1%	8.5%	2.4%
	25-34	132	86.3%	2.3%	9.1%	2.3%
	35-44	42	95.2%	4.8%	0.0%	0.0%
	45-54	10	90.0%	0.0%	10.0%	0.0%
Service	Navy	18	88.9%	11.1%	0.0%	0.0%
	Army	330	87.3%	2.4%	8.2%	2.1%
Rank	Officer	19	100.0%	0.0%	0.0%	0.0%
	NCO	109	86.2%	4.6%	9.2%	0.0%
	Other ranks	220	86.8%	2.3%	7.7%	3.2%
Locations	In Country	283	87.6%	1.8%	8.5%	2.1%
	Out Country	17	88.2%	11.8%	0.0%	0.0%
	Missing Location	48	85.4%	6.2%	6.3%	2.1%
Roles	Combat Afghan & Outside MSB	246	88.2%	1.2%	8.1%	2.5%
	Inside MSB	37	83.8%	5.4%	10.8%	0.0%
	Outside Afghan	17	88.2%	11.8%	0.0%	0.0%
	Missing Roles	48	85.4%	6.2%	6.3%	2.1%
Duty	Regular	328	87.2%	2.5%	8.2%	2.1%
	Reservist	11	90.9%	9.1%	0.0%	0.0%
	Missing Duty	9	88.9%	11.1%	0.0%	0.0%
Prior Deployments	No Prior Deployments	82	90.3%	1.2%	7.3%	1.2%
	1 - 2 Prior Deployments	125	87.2%	3.2%	7.2%	2.4%
	3 - 4 Prior Deployments	45	84.5%	2.2%	8.9%	4.4%

	5+ Prior Deployments	42	83.3%	4.8%	9.5%	2.4%
	Missing No. Prior Deployments	54	88.9%	3.7%	7.4%	0.0%

Table 16.13: Proportion of participants in each eGFR Risk categories at pre-deployment

Characteristics	Sub groups	Pre-Post Deployment	Normal %	Mild Reduction %	Moderate Reduction %	Severe Reduction %	Kidney Damage %
		N					
Total Sample		346	52.0%	47.1%	0.9%	0.0%	0.0%
Gender	Female	5	60.0%	40.0%	0.0%	0.0%	0.0%
	Male	341	51.9%	47.2%	0.9%	0.0%	0.0%
Age	16-24	163	63.8%	35.6%	0.6%	0.0%	0.0%
	25-34	132	48.5%	50.0%	1.5%	0.0%	0.0%
	35-44	41	24.4%	75.6%	0.0%	0.0%	0.0%
	45-54	10	20.0%	80.0%	0.0%	0.0%	0.0%
Service	Navy	18	44.4%	55.6%	0.0%	0.0%	0.0%
	Army	328	52.4%	46.7%	0.9%	0.0%	0.0%
Rank	Officer	19	47.4%	52.6%	0.0%	0.0%	0.0%
	NCO	108	40.8%	58.3%	0.9%	0.0%	0.0%
	Other ranks	219	58.0%	41.1%	0.9%	0.0%	0.0%
Locations	In Country	281	52.3%	47.0%	0.7%	0.0%	0.0%
	Out Country	17	47.1%	52.9%	0.0%	0.0%	0.0%
	Missing Location	48	52.1%	45.8%	2.1%	0.0%	0.0%
Roles	Combat Afghan & Outside MSB	244	51.6%	48.0%	0.4%	0.0%	0.0%
	Inside MSB	37	56.8%	40.5%	2.7%	0.0%	0.0%
	Outside Afghan	17	47.1%	52.9%	0.0%	0.0%	0.0%
	Missing Roles	48	52.1%	45.8%	2.1%	0.0%	0.0%
Duty	Regular	326	52.5%	46.9%	0.6%	0.0%	0.0%
	Reservist	11	27.3%	63.6%	9.1%	0.0%	0.0%
	Missing Duty	9	66.7%	33.3%	0.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	82	68.3%	31.7%	0.0%	0.0%	0.0%
	1 - 2 Prior Deployments	124	57.3%	40.3%	2.4%	0.0%	0.0%
	3 - 4 Prior Deployments	45	37.8%	62.2%	0.0%	0.0%	0.0%

	5+ Prior Deployments	42	23.8%	76.2%	0.0%	0.0%	0.0%
	Missing No. Prior Deployments	53	49.1%	50.9%	0.0%	0.0%	0.0%

Table 16.14: Proportion of participants in each eGFR Risk categories at post-deployment

Characteristics	Sub groups	Pre-Post Deployment	Normal %	Mild Reduction %	Moderate Reduction %	Severe Reduction %	Kidney Damage %
		N					
Total Sample		346	39.9%	58.9%	1.2%	0.0%	0.0%
Gender	Female	5	20.0%	80.0%	0.0%	0.0%	0.0%
	Male	341	40.2%	58.6%	1.2%	0.0%	0.0%
Age	16-24	163	43.6%	55.8%	0.6%	0.0%	0.0%
	25-34	132	34.8%	62.9%	2.3%	0.0%	0.0%
	35-44	41	41.5%	58.5%	0.0%	0.0%	0.0%
	45-54	10	40.0%	60.0%	0.0%	0.0%	0.0%
Service	Navy	18	72.2%	27.8%	0.0%	0.0%	0.0%
	Army	328	38.1%	60.7%	1.2%	0.0%	0.0%
Rank	Officer	19	57.9%	42.1%	0.0%	0.0%	0.0%
	NCO	108	39.8%	59.3%	0.9%	0.0%	0.0%
	Other ranks	219	38.3%	60.3%	1.4%	0.0%	0.0%
Locations	In Country	281	39.9%	59.0%	1.1%	0.0%	0.0%
	Out Country	17	70.6%	29.4%	0.0%	0.0%	0.0%
	Missing Location	48	29.2%	68.7%	2.1%	0.0%	0.0%
Roles	Combat Afghan & Outside MSB	244	38.9%	59.9%	1.2%	0.0%	0.0%
	Inside MSB	37	45.9%	54.1%	0.0%	0.0%	0.0%
	Outside Afghan	17	70.6%	29.4%	0.0%	0.0%	0.0%
	Missing Roles	48	29.2%	68.7%	2.1%	0.0%	0.0%
Duty	Regular	326	40.8%	58.0%	1.2%	0.0%	0.0%
	Reservist	11	18.2%	81.8%	0.0%	0.0%	0.0%
	Missing Duty	9	33.3%	66.7%	0.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	82	47.6%	52.4%	0.0%	0.0%	0.0%
	1 - 2 Prior Deployments	124	39.5%	60.5%	0.0%	0.0%	0.0%
	3 - 4 Prior Deployments	45	37.8%	57.8%	4.4%	0.0%	0.0%

	5+ Prior Deployments	42	33.3%	61.9%	4.8%	0.0%	0.0%
	Missing No. Prior Deployments	53	35.8%	64.2%	0.0%	0.0%	0.0%

Table 16.15: Comparison of mean alanine transaminase (liver function) results at pre-deployment between responders who only completed pre-deployment and those who responded at both time points

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference
			Mean at Pre		Mean at Pre	Mean (CI)
Total Sample		228	27.3	348	27.9	0.6 (-1.9, 3.1)
Gender	Female	5	20.6	5	16.6	-4.0 (-16.3, 8.3)
	Male	223	27.5	343	28.1	0.6 (-1.9, 3.2)
Age	16-24	74	24.0	164	26.5	2.5 (-0.6, 5.6)
	25-34	121	29.2	132	28.6	-0.6 (-4.8, 3.5)
	35-44	29	28.0	42	31.0	3.0 (-3.1, 9.1)
	45-54	4	25.7	10	30.0	4.3 (-8.4, 16.9)
Service	Navy	14	25.7	18	31.2	5.5 (-3.1, 14.0)
	Army	211	27.4	330	27.7	0.3 (-2.3, 2.9)
Rank	Officer	30	24.1	19	30.9	6.8 (-2.4, 16.1)
	NCO	89	27.7	109	28.0	0.3 (-3.0, 3.6)
	Other ranks	109	27.8	220	27.6	-0.2 (-4.3, 3.9)
Duty	Regular	194	26.7	328	28.0	1.3 (-1.3, 3.8)
	Reservist	19	35.1	11	26.4	-8.7 (-22.8, 5.4)
	Missing Duty	15	24.9	9	27.3	2.4 (-4.9, 9.8)
Prior Deployments	No Prior Deployments	47	25.7	82	26.0	0.3 (-6.1, 6.8)
	1 - 2 Prior Deployments	75	25.4	125	27.7	2.3 (-1.0, 5.5)
	3 - 4 Prior Deployments	35	31.5	45	27.3	-4.2 (-12.7, 4.4)
	5+ Prior Deployments	33	30.7	42	30.7	0.0 (-5.7, 5.6)
	Missing No. Prior Deployments	38	26.2	54	29.7	3.5 (-3.0, 9.9)

(p=0.62)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 16.16: Comparison of mean lactate dehydrogenase (liver function) results at pre-deployment between responders who only completed pre-deployment and those who responded at both time points

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference
			Mean at Pre		Mean at Pre	
Total Sample		228	179.6	348	178.6	-1.0 (-7.1, 5.1)
Gender	Female	5	250.4	5	164.4	-86.0 (-324.4, 152.4)
	Male	223	178.0	343	178.8	0.8 (-4.1, 5.8)
Age	16-24	74	185.4	164	179.8	-5.6 (-19.4, 8.2)
	25-34	121	177.5	132	176.3	-1.2 (-9.0, 6.6)
	35-44	29	176.2	42	182.3	6.1 (-7.0, 19.0)
	45-54	4	162.5	10	176.3	13.8 (-7.3, 34.9)
Service	Navy	14	193.9	18	176.9	-17.0 (-85.1, 51.3)
	Army	211	178.6	330	178.7	0.1 (-5.0, 5.3)
Rank	Officer	30	166.3	19	184.3	18.0 (0.1, 35.9)
	NCO	89	175.6	109	177.6	2.0 (-6.0, 9.9)
	Other ranks	109	186.6	220	178.7	-7.9 (-18.2, 2.4)
Duty	Regular	194	180.2	328	178.7	-1.5 (-8.3, 5.2)
	Reservist	19	172.4	11	170.3	-2.1 (-19.7, 15.4)
	Missing Duty	15	181.3	9	188.4	7.1 (-12.9, 27.2)
Prior Deployments	No Prior Deployments	47	184.5	82	178.6	-5.9 (-26.0, 14.3)
	1 - 2 Prior Deployments	75	178.0	125	177.1	-1.9 (-11.0, 7.2)
	3 - 4 Prior Deployments	35	178.0	45	176.1	-1.9 (-15.6, 11.8)
	5+ Prior Deployments	33	182.8	42	180.0	-2.8 (-14.3, 8.6)
	Missing No. Prior Deployments	38	173.6	54	183.3	9.7 (-3.5, 22.8)

(p=0.75)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 16.17: Comparison of mean aspartate transaminase (liver function) results at pre-deployment between responders who only completed pre-deployment and those who responded at both time points

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference
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			Mean at Pre		Mean at Pre	Mean (CI)
Total Sample		228	26.6	348	28.9	2.3 (0.0, 4.7)
Gender	Female	5	27.4	5	21.2	-6.2 (-12.9, 0.5)
	Male	223	26.5	343	29.0	2.5 (0.0, 4.8)
Age	16-24	74	26.9	164	29.2	2.3 (-1.5, 6.1)
	25-34	121	27.0	132	29.3	2.3 (-1.3, 6.0)
	35-44	29	24.3	42	27.0	2.7 (-1.0, 6.6)
	45-54	4	23.3	10	25.0	1.7 (-4.9, 8.4)
Service	Navy	14	23.9	18	28.0	4.1 (-0.8, 9.0)
	Army	211	26.7	330	28.9	2.2 (-0.3, 4.7)
Rank	Officer	30	27.7	19	27.2	-0.5 (-7.2, 6.1)
	NCO	89	24.5	109	27.6	3.1 (-0.1, 6.2)
	Other ranks	109	27.9	220	29.6	1.7 (-1.8, 5.3)
Duty	Regular	194	26.5	328	29.1	2.6 (0.1, 5.2)
	Reservist	19	27.6	11	23.5	-4.1 (-10.9, 2.7)
	Missing Duty	15	26.7	9	26.2	-0.5 (-6.2, 5.3)
Prior Deployments	No Prior Deployments	47	27.5	82	27.5	0.0 (-4.1, 4.2)
	1 - 2 Prior Deployments	75	25.0	125	29.8	4.8 (0.7, 8.9)
	3 - 4 Prior Deployments	35	27.9	45	28.3	0.4 (-6.2, 7.0)
	5+ Prior Deployments	33	27.2	42	28.7	1.5 (-2.5, 5.5)
	Missing No. Prior Deployments	38	26.7	54	29.4	2.7 (-5.4, 10.9)

(p=0.05)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 16.18: Comparison of mean gamma glutamyl transferase (liver function) results at pre-deployment between responders who only completed pre-deployment and those who responded at both time points

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference Mean (CI)
			Mean at Pre		Mean at Pre	
Total Sample		228	20.7	348	21.2	0.5 (-1.8, 2.9)
Gender	Female	5	12.4	5	12.6	0.2 (-9.0, 9.4)
	Male	223	20.9	343	21.4	0.5 (-1.9, 2.8)
Age	16-24	74	19.2	164	19.0	-0.2 (-3.5, 3.1)
	25-34	121	21.6	132	21.4	-0.2 (-3.9, 3.5)
	35-44	29	20.1	42	27.8	7.7 (-0.4, 15.9)
	45-54	4	24.3	10	27.7	3.4 (-14.0, 20.9)
Service	Navy	14	18.4	18	20.6	2.2 (-3.8, 8.3)
	Army	211	21.0	330	21.3	0.3 (-2.1, 2.8)
Rank	Officer	30	17.9	19	21.0	3.1 (-2.0, 8.3)
	NCO	89	21.7	109	23.0	1.3 (-2.7, 5.4)
	Other ranks	109	20.6	220	20.4	-0.2 (-3.5, 3.0)
Duty	Regular	194	20.5	328	21.3	0.8 (-1.7, 3.3)
	Reservist	19	23.6	11	20.6	-3.0 (-12.3, 6.3)
	Missing Duty	15	20.1	9	22.3	2.2 (-7.2, 11.6)
Prior Deployments	No Prior Deployments	47	19.0	82	19.2	0.2 (-5.0, 5.5)
	1 - 2 Prior Deployments	75	20.6	125	20.8	0.2 (-3.4, 3.7)
	3 - 4 Prior Deployments	35	19.8	45	19.3	-0.5 (-4.9, 3.9)
	5+ Prior Deployments	33	22.1	42	25.1	3.0 (-4.0, 10.0)
	Missing No. Prior Deployments	38	22.7	54	24.1	1.4 (-6.0, 8.9)

(p=0.64)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 16.19: Comparison of mean alkaline phosphatase (liver function) results at pre-deployment between responders who only completed pre-deployment and those who responded at both time points

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference
			Mean at Pre		Mean at Pre	Mean (CI)
Total Sample		228	73.0	348	70.7	-2.3 (-5.4, 0.8)
Gender	Female	5	57.2	5	62.2	5.0 (-10.3, 20.3)
	Male	223	73.4	343	70.9	-2.5 (-5.6, 0.6)
Age	16-24	74	76.8	164	73.6	-3.2 (-8.5, 2.0)
	25-34	121	71.0	132	68.4	-2.6 (-7.2, 1.9)
	35-44	29	71.7	42	66.5	-5.2 (-12.8, 2.4)
	45-54	4	70.3	10	72.1	1.8 (-19.4, 23.1)
Service	Navy	14	65.3	18	67.8	2.5 (-5.6, 10.7)
	Army	211	73.7	330	70.9	-2.8 (-6.1, 0.5)
Rank	Officer	30	66.0	19	66.4	0.4 (-6.7, 7.5)
	NCO	89	70.3	109	67.6	-2.7 (-7.2, 1.8)
	Other ranks	109	77.2	220	72.7	-4.5 (-9.4, 0.4)
Duty	Regular	194	72.8	328	70.9	-1.9 (-5.2, 1.5)
	Reservist	19	71.0	11	67.5	-3.5 (-17.6, 10.7)
	Missing Duty	15	78.4	9	68.2	-10.2 (-22.9, 2.4)
Prior Deployments	No Prior Deployments	47	73.0	82	74.1	1.1 (-6.1, 8.3)
	1 - 2 Prior Deployments	75	72.3	125	72.0	-0.3 (-5.2, 4.6)
	3 - 4 Prior Deployments	35	72.7	45	64.8	-7.9 (-16.1, 0.2)
	5+ Prior Deployments	33	68.7	42	66.3	-2.4 (-10.1, 5.3)
	Missing No. Prior Deployments	38	78.3	54	71.1	-7.2 (-15.8, 1.2)

(p=0.15)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 16.20: Comparison of mean bilirubin (liver function) results at pre-deployment between responders who only completed pre-deployment and those who responded at both time points

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment Mean at Pre	Pre Post Deployment Sample N	Pre Post Deployment Mean at Pre	Difference Mean (CI)
Total Sample		228	11.2	348	11.5	0.3 (-0.7, 1.3)
Gender	Female	5	11.6	5	10.8	-0.8 (-7.1, 5.5)
	Male	223	11.2	343	11.5	0.3 (-0.7, 1.3)
Age	16-24	74	11.2	164	11.6	0.4 (-1.2, 1.9)
	25-34	121	11.0	132	12.3	1.3 (-0.2, 2.9)
	35-44	29	12.4	42	9.5	-2.9 (-5.3, -0.6)
	45-54	4	11.3	10	8.7	-2.6 (-8.1, 3.0)
Service	Navy	14	9.1	18	13.4	4.3 (-0.9, 9.4)
	Army	211	11.3	330	11.4	0.1 (-0.9, 1.1)
Rank	Officer	30	12.1	19	12.9	0.8 (-2.9, 4.6)
	NCO	89	10.6	109	11.4	0.8 (-0.7, 2.3)
	Other ranks	109	11.5	220	11.5	0.0 (-1.5, 1.4)
Duty	Regular	194	11.2	328	11.6	0.4 (-0.6, 1.4)
	Reservist	19	13.3	11	12.0	-1.3 (-6.2, 3.7)
	Missing Duty	15	9.8	9	10.1	0.3 (-3.1, 3.7)
Prior Deployments	No Prior Deployments	47	12.3	82	12.2	-0.1 (-2.6, 2.4)
	1 - 2 Prior Deployments	75	11.3	125	11.2	-0.1 (-2.0, 1.8)
	3 - 4 Prior Deployments	35	11.0	45	12.3	1.3 (-0.8, 3.5)
	5+ Prior Deployments	33	11.8	42	11.3	-0.5 (-2.8, 1.8)
	Missing No. Prior Deployments	38	9.5	54	10.7	1.2 (-0.4, 2.8)

(p=0.56)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 16.21: Change in alanine transaminase (liver function) risk categories between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	Normal at both %	High at Pre %	High at Post %	High at Both %
		N				

Total Sample		348	85.7%	6.0%	6.3%	2.0%
Gender	Female	5	100.0%	0.0%	0.0%	0.0%
	Male	343	85.4%	6.1%	6.4%	2.1%
Age	16-24	164	85.4%	6.1%	5.5%	3.0%
	25-34	132	90.2%	4.5%	3.8%	1.5%
	35-44	42	71.4%	9.5%	19.1%	0.0%
	45-54	10	90.0%	10.0%	0.0%	0.0%
Service	Navy	18	77.8%	5.5%	11.1%	5.6%
	Army	330	86.0%	6.1%	6.1%	1.8%
Rank	Officer	19	73.7%	10.5%	15.8%	0.0%
	NCO	109	81.7%	5.5%	11.0%	1.8%
	Other ranks	220	88.6%	5.9%	3.2%	2.3%
Locations	In Country	283	86.6%	5.3%	6.0%	2.1%
	Out Country	17	76.4%	5.9%	11.8%	5.9%
	Missing Location	48	83.3%	10.4%	6.3%	0.0%
Roles	Combat Afghan & Outside MSB	246	85.8%	5.3%	6.5%	2.4%
	Inside MSB	37	91.9%	5.4%	2.7%	0.0%
	Outside Afghan	17	76.4%	5.9%	11.8%	5.9%
	Missing Roles	48	83.3%	10.4%	6.3%	0.0%
Duty	Regular	328	85.4%	6.1%	6.4%	2.1%
	Reservist	11	81.8%	9.1%	9.1%	0.0%
	Missing Duty	9	100.0%	0.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	82	85.4%	6.1%	7.3%	1.2%
	1 - 2 Prior Deployments	125	88.0%	5.6%	4.0%	2.4%
	3 - 4 Prior Deployments	45	95.6%	2.2%	2.2%	0.0%
	5+ Prior Deployments	42	76.2%	7.1%	16.7%	0.0%
	Missing No. Prior Deployments	54	79.6%	9.3%	5.5%	5.6%

Table 16.22: Change in lactate dehydrogenase (liver function) risk categories between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	No Change %	Increase 1 Step %	Decrease 1 Step %
		N			
Total Sample		348	97.1%	1.7%	1.2%
Gender	Female	5	100.0%	0.0%	0.0%
	Male	343	97.1%	1.7%	1.2%
Age	16-24	164	97.0%	2.4%	0.6%
	25-34	132	97.0%	0.7%	2.3%
	35-44	42	97.6%	2.4%	0.0%
	45-54	10	100.0%	0.0%	0.0%
Service	Navy	18	100.0%	0.0%	0.0%
	Army	330	97.0%	1.8%	1.2%
Rank	Officer	19	100.0%	0.0%	0.0%
	NCO	109	97.3%	1.8%	0.9%
	Other ranks	220	96.8%	1.8%	1.4%
Locations	In Country	283	96.8%	1.8%	1.4%
	Out Country	17	100.0%	0.0%	0.0%
	Missing Location	48	97.9%	2.1%	0.0%
Roles	Combat Afghan & Outside MSB	246	96.8%	1.6%	1.6%
	Inside MSB	37	97.3%	2.7%	0.0%
	Outside Afghan	17	100.0%	0.0%	0.0%
	Missing Roles	48	97.9%	2.1%	0.0%
Duty	Regular	328	97.0%	1.8%	1.2%
	Reservist	11	100.0%	0.0%	0.0%
	Missing Duty	9	100.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	82	96.4%	3.6%	0.0%
	1 - 2 Prior Deployments	125	96.0%	1.6%	2.4%
	3 - 4 Prior Deployments	45	100.0%	0.0%	0.0%

	5+ Prior Deployments	42	97.6%	2.4%	0.0%
	Missing No. Prior Deployments	54	98.1%	0.0%	1.9%

Table 16.23: Change in aspartate transaminase (liver function) risk categories between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	No Change %	High at Pre %	High at Post %	High at Both %
		N				
Total Sample		348	81.0%	8.1%	9.5%	1.4%
Gender	Female	5	80.0%	0.0%	20.0%	0.0%
	Male	343	81.0%	8.2%	9.3%	1.5%
Age	16-24	164	78.1%	7.9%	12.2%	1.8%
	25-34	132	83.3%	9.1%	7.6%	0.0%
	35-44	42	81.0%	7.1%	7.1%	4.8%
	45-54	10	100.0%	0.0%	0.0%	0.0%
Service	Navy	18	88.9%	5.5%	0.0%	5.6%
	Army	330	80.6%	8.2%	10.0%	1.2%
Rank	Officer	19	94.7%	5.3%	0.0%	0.0%
	NCO	109	79.8%	4.6%	12.8%	2.8%
	Other ranks	220	80.5%	10.0%	8.6%	0.9%
Locations	In Country	283	79.9%	8.8%	10.2%	1.1%
	Out Country	17	88.2%	5.9%	0.0%	5.9%
	Missing Location	48	85.4%	4.2%	8.3%	2.1%
Roles	Combat Afghan & Outside MSB	246	78.0%	9.8%	11.0%	1.2%
	Inside MSB	37	91.9%	2.7%	5.4%	0.0%
	Outside Afghan	17	88.2%	5.9%	0.0%	5.9%
	Missing Roles	48	85.4%	4.2%	8.3%	2.1%
Duty	Regular	328	80.2%	8.5%	9.8%	1.5%
	Reservist	11	90.9%	0.0%	9.1%	0.0%
	Missing Duty	9	100.0%	0.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	82	78.1%	8.5%	12.2%	1.2%
	1 - 2 Prior Deployments	125	83.2%	8.0%	7.2%	1.6%
	3 - 4 Prior Deployments	45	80.0%	6.7%	11.1%	2.2%

	5+ Prior Deployments	42	83.3%	9.5%	4.8%	2.4%
	Missing No. Prior Deployments	54	79.6%	7.4%	13.0%	0.0%

Table 16.24: Change in gamma glutamyl transferase (liver function) risk categories between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	No Change %	High at Pre %	High at Post %	High at Both %
		N				
Total Sample		348	92.5%	1.4%	3.8%	2.3%
Gender	Female	5	100.0%	0.0%	0.0%	0.0%
	Male	343	92.4%	1.5%	3.8%	2.3%
Age	16-24	164	95.1%	1.8%	2.5%	0.6%
	25-34	132	92.4%	1.5%	4.6%	1.5%
	35-44	42	85.7%	0.0%	4.8%	9.5%
	45-54	10	80.0%	0.0%	10.0%	10.0%
Service	Navy	18	94.4%	0.0%	5.6%	0.0%
	Army	330	92.4%	1.5%	3.7%	2.4%
Rank	Officer	19	94.7%	0.0%	5.3%	0.0%
	NCO	109	89.9%	0.0%	5.5%	4.6%
	Other ranks	220	93.6%	2.3%	2.7%	1.4%
Locations	In Country	283	92.2%	1.1%	3.9%	2.8%
	Out Country	17	94.1%	0.0%	5.9%	0.0%
	Missing Location	48	93.7%	4.2%	2.1%	0.0%
Roles	Combat Afghan & Outside MSB	246	91.9%	1.2%	4.1%	2.8%
	Inside MSB	37	94.6%	0.0%	2.7%	2.7%
	Outside Afghan	17	94.1%	0.0%	5.9%	0.0%
	Missing Roles	48	93.7%	4.2%	2.1%	0.0%
Duty	Regular	328	92.4%	1.5%	3.7%	2.4%
	Reservist	11	90.9%	0.0%	9.1%	0.0%
	Missing Duty	9	100.0%	0.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	82	93.9%	1.2%	2.5%	2.4%
	1 - 2 Prior Deployments	125	93.6%	1.6%	3.2%	1.6%
	3 - 4 Prior Deployments	45	93.3%	2.2%	4.5%	0.0%

	5+ Prior Deployments	42	88.1%	0.0%	7.1%	4.8%
	Missing No. Prior Deployments	54	90.7%	1.9%	3.7%	3.7%

Table 16.25: Change in alkaline phosphatase (liver function) risk categories between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	No Change %	Increase %	Decrease %
		N			
Total Sample		348	97.4%	2.3%	0.3%
Gender	Female	5	100.0%	0.0%	0.0%
	Male	343	97.4%	2.3%	0.3%
Age	16-24	164	96.3%	3.1%	0.6%
	25-34	132	97.7%	2.3%	0.0%
	35-44	42	100.0%	0.0%	0.0%
	45-54	10	100.0%	0.0%	0.0%
Service	Navy	18	100.0%	0.0%	0.0%
	Army	330	97.3%	2.4%	0.3%
Rank	Officer	19	100.0%	0.0%	0.0%
	NCO	109	99.1%	0.9%	0.0%
	Other ranks	220	96.3%	3.2%	0.5%
Locations	In Country	283	97.1%	2.5%	0.4%
	Out Country	17	100.0%	0.0%	0.0%
	Missing Location	48	97.9%	2.1%	0.0%
Roles	Combat Afghan & Outside MSB	246	96.7%	2.9%	0.4%
	Inside MSB	37	100.0%	0.0%	0.0%
	Outside Afghan	17	100.0%	0.0%	0.0%
	Missing Roles	48	97.9%	2.1%	0.0%
Duty	Regular	328	97.6%	2.1%	0.3%
	Reservist	11	100.0%	0.0%	0.0%
	Missing Duty	9	88.9%	11.1%	0.0%
Prior Deployments	No Prior Deployments	82	97.6%	1.2%	1.2%
	1 - 2 Prior Deployments	125	96.0%	4.0%	0.0%
	3 - 4 Prior Deployments	45	100.0%	0.0%	0.0%

	5+ Prior Deployments	42	97.6%	2.4%	0.0%
	Missing No. Prior Deployments	54	98.1%	1.9%	0.0%

Table 16.26: Change in bilirubin (liver function) risk categories between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	Neither at Pre or Post %	High at Pre %	High at Post %	High at Both %
		N				
Total Sample		348	93.1%	1.7%	2.6%	2.6%
Gender	Female	5	100.0%	0.0%	0.0%	0.0%
	Male	343	93.0%	1.8%	2.6%	2.6%
Age	16-24	164	91.5%	2.4%	3.7%	2.4%
	25-34	132	92.4%	1.5%	2.3%	3.8%
	35-44	42	100.0%	0.0%	0.0%	0.0%
	45-54	10	100.0%	0.0%	0.0%	0.0%
Service	Navy	18	88.8%	5.6%	0.0%	5.6%
	Army	330	93.4%	1.5%	2.7%	2.4%
Rank	Officer	19	89.4%	0.0%	5.3%	5.3%
	NCO	109	93.6%	1.8%	1.8%	2.8%
	Other ranks	220	93.2%	1.8%	2.7%	2.3%
Locations	In Country	283	93.3%	1.1%	2.8%	2.8%
	Out Country	17	88.2%	5.9%	0.0%	5.9%
	Missing Location	48	93.7%	4.2%	2.1%	0.0%
Roles	Combat Afghan & Outside MSB	246	92.7%	1.2%	3.3%	2.8%
	Inside MSB	37	97.3%	0.0%	0.0%	2.7%
	Outside Afghan	17	88.2%	5.9%	0.0%	5.9%
	Missing Roles	48	93.7%	4.2%	2.1%	0.0%
Duty	Regular	328	93.0%	1.8%	2.4%	2.8%
	Reservist	11	100.0%	0.0%	0.0%	0.0%
	Missing Duty	9	88.9%	0.0%	11.1%	0.0%
Prior Deployments	No Prior Deployments	82	89.0%	1.2%	4.9%	4.9%
	1 - 2 Prior Deployments	125	93.6%	3.2%	0.8%	2.4%
	3 - 4 Prior Deployments	45	91.1%	0.0%	6.7%	2.2%

	5+ Prior Deployments	42	97.6%	2.4%	0.0%	0.0%
	Missing No. Prior Deployments	54	96.2%	0.0%	1.9%	1.9%

Table 16.27: Comparison of mean amylase (pancreatic enzymes) results at pre-deployment between responders who only completed pre-deployment and those who responded at both time points

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment Mean at Pre	Pre Post Deployment Sample N	Pre Post Deployment Mean at Pre	Difference Mean (CI)
Total Sample		228	55.8	348	55.5	-0.3 (-3.2, 2.7)
Gender	Female	5	56.0	5	67.0	11.0 (-20.9, 42.9)
	Male	223	55.7	343	55.3	-0.4 (-3.4, 2.6)
Age	16-24	74	53.0	164	53.5	0.5 (-4.3, 5.4)
	25-34	121	56.5	132	54.8	-1.7 (-6.1, 2.6)
	35-44	29	60.5	42	65.9	5.4 (-4.0, 14.8)
	45-54	4	51.8	10	54.0	2.2 (-11.9, 16.4)
Service	Navy	14	54.1	18	54.6	0.5 (-11.4, 12.3)
	Army	211	55.7	330	55.6	-0.1 (-3.3, 2.9)
Rank	Officer	30	53.5	19	52.8	-0.7 (-7.7, 6.2)
	NCO	89	55.4	109	58.1	2.7 (-2.5, 8.0)
	Other ranks	109	56.6	220	54.4	-2.2 (-6.6, 2.1)
Duty	Regular	194	55.5	328	55.3	-0.2 (-3.4, 2.9)
	Reservist	19	60.8	11	59.6	-1.2 (-12.6, 10.2)
	Missing Duty	15	52.4	9	57.9	5.5 (-7.1, 18.1)
Prior Deployments	No Prior Deployments	47	53.1	82	51.6	-1.5 (-7.2, 4.2)
	1 - 2 Prior Deployments	75	57.3	125	55.1	-2.2 (-7.6, 3.2)
	3 - 4 Prior Deployments	35	57.1	45	56.1	-1.0 (-8.6, 6.5)
	5+ Prior Deployments	33	54.7	42	61.2	6.5 (-2.0, 15.0)
	Missing No. Prior Deployments	38	55.7	54	57.6	1.9 (-6.2, 9.9)

(p=0.86)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 16.28: Comparison of mean lipase (pancreatic enzymes) results at pre-deployment between responders who only completed pre-deployment and those who responded at both time points

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment Mean at Pre	Pre Post Deployment Sample N	Pre Post Deployment Mean at Pre	Difference Mean (CI)
Total Sample		228	138.9	348	144.2	5.3 (-2.9, 13.7)
Gender	Female	5	157.4	5	171.8	14.4 (-49.9, 78.7)
	Male	223	138.4	343	143.8	5.4 (-3.0, 13.8)
Age	16-24	74	129.2	164	128.3	-0.9 (-9.9, 8.1)
	25-34	121	139.3	132	145.7	6.4 (-4.5, 17.1)
	35-44	29	161.2	42	189.2	28.0 (-14.5, 70.5)
	45-54	4	142.5	10	198.2	55.7 (-19.7, 131.1)
Service	Navy	14	140.9	18	135.6	-5.3 (-39.7, 29.2)
	Army	211	138.4	330	144.7	6.3 (-2.3, 14.9)
Rank	Officer	30	135.6	19	144.2	8.6 (-14.5, 31.6)
	NCO	89	145.6	109	158.2	12.6 (-6.3, 31.7)
	Other ranks	109	134.3	220	137.3	3.0 (-5.9, 12.0)
Duty	Regular	194	139.4	328	144.9	5.5 (-3.3, 14.3)
	Reservist	19	143.4	11	131.0	-12.4 (-38.1, 13.3)
	Missing Duty	15	126.3	9	136.2	9.9 (-17.9, 37.7)
Prior Deployments	No Prior Deployments	47	132.6	82	131.3	-1.3 (-13.6, 11.0)
	1 - 2 Prior Deployments	75	143.2	125	139.2	-4.0 (-17.1, 9.2)
	3 - 4 Prior Deployments	35	148.6	45	148.4	-0.2 (-21.5, 21.1)
	5+ Prior Deployments	33	138.2	42	172.4	34.2 (-5.7, 74.2)
	Missing No. Prior Deployments	38	129.8	54	150.0	20.2 (1.9, 38.5)

(p=0.20)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 16.29: Change in amylase (pancreatic enzymes) risk categories between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	Normal at both %	High at Pre %	High at Post %	High at Both %
		N				
Total Sample		348	99.1%	0.6%	0.0%	0.3%
Gender	Female	5	100.0%	0.0%	0.0%	0.0%
	Male	343	99.1%	0.6%	0.0%	0.3%
Age	16-24	164	100.0%	0.0%	0.0%	0.0%
	25-34	132	99.2%	0.8%	0.0%	0.0%
	35-44	42	95.2%	2.4%	0.0%	2.4%
	45-54	10	100.0%	0.0%	0.0%	0.0%
Service	Navy	18	100.0%	0.0%	0.0%	0.0%
	Army	330	99.1%	0.6%	0.0%	0.3%
Rank	Officer	19	100.0%	0.0%	0.0%	0.0%
	NCO	109	98.2%	0.9%	0.0%	0.9%
	Other ranks	220	99.5%	0.5%	0.0%	0.0%
Locations	In Country	283	98.9%	0.7%	0.0%	0.4%
	Out Country	17	100.0%	0.0%	0.0%	0.0%
	Missing Location	48	100.0%	0.0%	0.0%	0.0%
Roles	Combat Afghan & Outside MSB	246	99.2%	0.4%	0.0%	0.4%
	Inside MSB	37	97.3%	2.7%	0.0%	0.0%
	Outside Afghan	17	100.0%	0.0%	0.0%	0.0%
	Missing Roles	48	100.0%	0.0%	0.0%	0.0%
Duty	Regular	328	99.1%	0.6%	0.0%	0.3%
	Reservist	11	100.0%	0.0%	0.0%	0.0%
	Missing Duty	9	100.0%	0.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	82	100.0%	0.0%	0.0%	0.0%
	1 - 2 Prior Deployments	125	99.2%	0.8%	0.0%	0.0%
	3 - 4 Prior Deployments	45	100.0%	0.0%	0.0%	0.0%

	5+ Prior Deployments	42	95.2%	2.4%	0.0%	2.4%
	Missing No. Prior Deployments	54	100.0%	0.0%	0.0%	0.0%

Table 16.30: Change in amylase (pancreatic enzymes) risk categories between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	Normal at both %	Increase %	Decrease %
		N			
Total Sample		348	98.3%	1.7%	0.0%
Gender	Female	5	100.0%	0.0%	0.0%
	Male	343	98.2%	1.8%	0.0%
Age	16-24	164	99.4%	0.6%	0.0%
	25-34	132	97.7%	2.3%	0.0%
	35-44	42	95.2%	4.8%	0.0%
	45-54	10	100.0%	0.0%	0.0%
Service	Navy	18	100.0%	0.0%	0.0%
	Army	330	98.2%	1.8%	0.0%
Rank	Officer	19	100.0%	0.0%	0.0%
	NCO	109	96.4%	3.6%	0.0%
	Other ranks	220	99.1%	0.9%	0.0%
Locations	In Country	283	97.9%	2.1%	0.0%
	Out Country	17	100.0%	0.0%	0.0%
	Missing Location	48	100.0%	0.0%	0.0%
Roles	Combat Afghan & Outside MSB	246	98.8%	1.2%	0.0%
	Inside MSB	37	91.9%	8.1%	0.0%
	Outside Afghan	17	100.0%	0.0%	0.0%
	Missing Roles	48	100.0%	0.0%	0.0%
Duty	Regular	328	98.2%	1.8%	0.0%
	Reservist	11	100.0%	0.0%	0.0%
	Missing Duty	9	100.0%	0.0%	0.0%
Prior Deployments	No Prior Deployments	82	100.0%	0.0%	0.0%
	1 - 2 Prior Deployments	125	98.4%	1.6%	0.0%
	3 - 4 Prior Deployments	45	100.0%	0.0%	0.0%

	5+ Prior Deployments	42	95.2%	4.8%	0.0%
	Missing No. Prior Deployments	54	96.3%	3.7%	0.0%

Table16.31: Comparison of mean total cholesterol (lipid profile) results at pre-deployment between responders who only completed pre-deployment and those who responded at both time points

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference
			Mean at Pre		Mean at Pre	Mean (CI)
Total Sample		228	4.6	348	4.5	-0.1 (-0.2, 0.0)
Gender	Female	5	4.1	5	4.8	0.7 (-0.3, 1.7)
	Male	223	4.6	343	4.5	-0.1 (-0.2, 0.0)
Age	16-24	74	4.4	164	4.3	-0.1 (-0.3, 0.0)
	25-34	121	4.6	132	4.6	0.0 (-0.2, 0.2)
	35-44	29	5.0	42	5.0	0.0 (-0.5, 0.4)
	45-54	4	5.9	10	5.4	-0.5 (-1.3, 0.2)
Service	Navy	14	4.2	18	4.5	0.3 (-0.3, 0.9)
	Army	211	4.6	330	4.5	-0.1 (-0.2, 0.0)
Rank	Officer	30	4.7	19	4.8	0.1 (-0.4, 0.6)
	NCO	89	4.8	109	4.8	0.0 (-0.3, 0.3)
	Other ranks	109	4.5	220	4.4	-0.1 (-0.3, 0.1)
Duty	Regular	194	4.6	328	4.5	-0.1 (-0.2, 0.0)
	Reservist	19	4.7	11	4.7	0.0 (-1.1, 1.2)
	Missing Duty	15	4.4	9	4.6	0.2 (-0.6, 1.0)
Prior Deployments	No Prior Deployments	47	4.5	82	4.3	-0.2 (-0.4, 0.1)
	1 - 2 Prior Deployments	75	4.6	125	4.5	-0.1 (-0.4, 0.1)
	3 - 4 Prior Deployments	35	4.7	45	4.6	-0.1 (-0.4, 0.3)
	5+ Prior Deployments	33	4.8	42	4.9	0.1 (-0.3, 0.6)
	Missing No. Prior Deployments	38	4.5	54	4.5	0.0 (-0.3, 0.3)

(p=0.19)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 16.32: Comparison of mean low density lipoprotein (lipid profile) results at pre-deployment between responders who only completed pre-deployment and those who responded at both time points

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference
			Mean at Pre		Mean at Pre	Mean (CI)
Total Sample		227	2.7	338	2.6	-0.1 (-0.3, 0.0)
Gender	Female	5	2.6	5	2.7	0.1 (-0.7, 0.9)
	Male	222	2.7	333	2.6	-0.1 (-0.3, 0.0)
Age	16-24	74	2.5	162	2.4	-0.1 (-0.3, 0.0)
	25-34	121	2.7	126	2.6	-0.1 (-0.2, 0.1)
	35-44	28	3.1	41	2.9	-0.2 (-0.6, 0.2)
	45-54	4	3.7	9	3.3	-0.4 (-1.3, 0.4)
Service	Navy	14	2.4	18	2.9	0.5 (-0.1, 1.0)
	Army	210	2.7	320	2.5	-0.2 (-0.3, 0.0)
Rank	Officer	30	2.7	18	2.8	0.1 (-0.4, 0.6)
	NCO	88	2.9	103	2.7	-0.2 (-0.4, 0.0)
	Other ranks	109	2.6	217	2.5	-0.1 (-0.2, 0.1)
Duty	Regular	193	2.7	319	2.6	-0.1 (-0.2, 0.0)
	Reservist	19	2.8	10	2.1	-0.7 (-1.3, -0.2)
	Missing Duty	15	2.6	9	2.5	-0.1 (-0.7, 0.5)
Prior Deployments	No Prior Deployments	47	2.6	81	2.5	-0.1 (-0.4, 0.1)
	1 - 2 Prior Deployments	74	2.7	121	2.5	-0.2 (-0.4, 0.1)
	3 - 4 Prior Deployments	35	2.8	45	2.6	-0.2 (-0.5, 0.1)
	5+ Prior Deployments	33	2.8	39	2.9	0.1 (-0.3, 0.4)
	Missing No. Prior Deployments	38	2.7	52	2.5	-0.2 (-0.5, 0.1)

(p=0.032)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 16.33: Comparison of mean high-density lipoprotein (lipid profile) results at pre-deployment between responders who only completed pre-deployment and those who responded at both time points

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference
			Mean at Pre		Mean at Pre	Mean (CI)
Total Sample		228	1.2	348	1.2	0.0 (0.0, 0.1)
Gender	Female	5	1.1	5	1.6	0.5 (0.1, 0.8)
	Male	223	1.2	343	1.2	0.0 (0.0, 0.1)
Age	16-24	74	1.2	164	1.2	0.0 (0.0, 0.1)
	25-34	121	1.2	132	1.3	0.1 (0.0, 0.2)
	35-44	29	1.2	42	1.2	0.0 (-0.1, 0.2)
	45-54	4	1.1	10	1.2	0.1 (-0.2, 0.5)
Service	Navy	14	1.0	18	1.1	0.1 (0.0, 0.3)
	Army	211	1.3	330	1.3	0.0 (0.0, 0.1)
Rank	Officer	30	1.3	19	1.3	0.0 (-0.2, 0.2)
	NCO	89	1.2	109	1.3	0.1 (0.0, 0.2)
	Other ranks	109	1.2	220	1.2	0.0 (0.0, 0.1)
Duty	Regular	194	1.3	328	1.3	0.0 (0.0, 0.1)
	Reservist	19	1.3	11	1.4	0.1 (-0.1, 0.4)
	Missing Duty	15	1.1	9	1.4	0.3 (0.0, 0.5)
Prior Deployments	No Prior Deployments	47	1.2	82	1.2	0.0 (-0.1, 0.1)
	1 - 2 Prior Deployments	75	1.2	125	1.3	0.1 (0.0, 0.1)
	3 - 4 Prior Deployments	35	1.2	45	1.4	0.2 (0.0, 0.3)
	5+ Prior Deployments	33	1.4	42	1.3	-0.1 (-0.2, 0.1)
	Missing No. Prior Deployments	38	1.2	54	1.3	0.1 (0.0, 0.2)

(p=0.81)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 16.34: Comparison of mean tryglycerides (lipid profile) results at pre-deployment between responders who only completed pre-deployment and those who responded at both time points

Characteristics	Sub groups	Pre Deployment Sample N	Pre Deployment	Pre Post Deployment Sample N	Pre Post Deployment	Difference
			Mean at Pre		Mean at Pre	Mean (CI)
Total Sample		228	1.5	348	1.5	0.0 (-0.1, 0.2)
Gender	Female	5	0.8	5	1.1	0.3 (-0.3, 0.9)
	Male	223	1.5	343	1.5	0.0 (-0.1, 0.2)
Age	16-24	74	1.4	164	1.3	-0.1 (-0.3, 0.1)
	25-34	121	1.5	132	1.6	0.1 (-0.2, 0.5)
	35-44	29	1.6	42	1.7	0.1 (-0.4, 0.6)
	45-54	4	2.4	10	2.2	-0.2 (-1.5, 1.1)
Service	Navy	14	1.8	18	1.1	-0.7 (-1.1, -0.2)
	Army	211	1.5	330	1.5	0.0 (-0.1, 0.2)
Rank	Officer	30	1.4	19	1.4	0.0 (-0.5, 0.5)
	NCO	89	1.6	109	1.8	0.2 (-0.2, 0.6)
	Other ranks	109	1.4	220	1.4	0.0 (-0.2, 0.1)
Duty	Regular	194	1.5	328	1.5	0.0 (-0.2, 0.2)
	Reservist	19	1.2	11	1.9	0.7 (-0.3, 1.7)
	Missing Duty	15	1.4	9	1.5	0.1 (-0.6, 0.8)
Prior Deployments	No Prior Deployments	47	1.3	82	1.3	0.0 (-0.3, 0.2)
	1 - 2 Prior Deployments	75	1.6	125	1.6	0.0 (-0.3, 0.4)
	3 - 4 Prior Deployments	35	1.4	45	1.3	-0.1 (-0.4, 0.2)
	5+ Prior Deployments	33	1.4	42	1.6	0.2 (-0.2, 0.6)
	Missing No. Prior Deployments	38	1.4	54	1.6	0.2 (-0.2, 0.5)

(p=0.70)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 16.35: Change in total cholesterol (lipid profile) risk categories between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	Normal at Both %	High at Pre %	High at Post %	High at Both%
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		N				
Total Sample		348	83.9%	3.7%	7.2%	5.2%
Gender	Female	5	100.0%	0.0%	0.0%	0.0%
	Male	343	83.7%	3.8%	7.3%	5.2%
Age	16-24	164	90.3%	2.4%	5.5%	1.8%
	25-34	132	82.6%	4.5%	6.1%	6.8%
	35-44	42	71.4%	4.8%	14.3%	9.5%
	45-54	10	50.0%	10.0%	20.0%	20.0%
Service	Navy	18	83.3%	5.5%	5.6%	5.6%
	Army	330	83.9%	3.6%	7.3%	5.2%
Rank	Officer	19	73.7%	5.3%	10.5%	10.5%
	NCO	109	77.0%	3.7%	10.1%	9.2%
	Other ranks	220	88.2%	3.6%	5.5%	2.7%
Locations	In Country	283	83.4%	3.5%	8.1%	5.0%
	Out Country	17	82.3%	5.9%	5.9%	5.9%
	Missing Location	48	87.5%	4.2%	2.1%	6.2%
Roles	Combat Afghan & Outside MSB	246	83.7%	3.7%	7.3%	5.3%
	Inside MSB	37	81.1%	2.7%	13.5%	2.7%
	Outside Afghan	17	82.3%	5.9%	5.9%	5.9%
	Missing Roles	48	87.5%	4.2%	2.1%	6.2%
Duty	Regular	328	83.5%	4.0%	7.6%	4.9%
	Reservist	11	90.9%	0.0%	0.0%	9.1%
	Missing Duty	9	88.9%	0.0%	0.0%	11.1%
Prior Deployments	No Prior Deployments	82	85.4%	4.9%	7.3%	2.4%
	1 - 2 Prior Deployments	125	84.0%	4.8%	6.4%	4.8%
	3 - 4 Prior Deployments	45	84.4%	0.0%	8.9%	6.7%
	5+ Prior Deployments	42	76.2%	2.4%	11.9%	9.5%
	Missing No. Prior Deployments	54	87.0%	3.7%	3.7%	5.6%

Table 16.36: Change in low density lipoprotein (lipid profile) risk categories between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	No Change %	Increase %	Decrease %
		N			
Total Sample		338	78.4%	13.6%	8.0%
Gender	Female	5	60.0%	40.0%	0.0%
	Male	333	78.7%	13.2%	8.1%
Age	16-24	162	77.8%	13.0%	9.2%
	25-34	126	78.6%	12.7%	8.7%
	35-44	41	78.1%	19.5%	2.4%
	45-54	9	88.9%	11.1%	0.0%
Service	Navy	18	100.0%	0.0%	0.0%
	Army	320	77.2%	14.4%	8.4%
Rank	Officer	18	88.9%	5.5%	5.6%
	NCO	103	80.6%	15.5%	3.9%
	Other ranks	217	76.5%	13.4%	10.1%
Locations	In Country	276	76.8%	13.8%	9.4%
	Out Country	17	100.0%	0.0%	0.0%
	Missing Location	45	80.0%	17.8%	2.2%
Roles	Combat Afghan & Outside MSB	239	77.0%	13.4%	9.6%
	Inside MSB	37	75.7%	16.2%	8.1%
	Outside Afghan	17	100.0%	0.0%	0.0%
	Missing Roles	45	80.0%	17.8%	2.2%
Duty	Regular	319	78.7%	12.8%	8.5%
	Reservist	10	80.0%	20.0%	0.0%
	Missing Duty	9	66.7%	33.3%	0.0%
Prior Deployments	No Prior Deployments	81	82.7%	11.1%	6.2%
	1 - 2 Prior Deployments	121	76.0%	14.1%	9.9%
	3 - 4 Prior Deployments	45	73.3%	20.0%	6.7%

	5+ Prior Deployments	39	87.2%	10.2%	2.6%
	Missing No. Prior Deployments	52	75.0%	13.5%	11.5%

Table 16.37: Change in high-density lipoprotein (lipid profile) risk categories between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	No Change %	Increase %	Decrease %
		N			
Total Sample		348	87.0%	7.2%	5.8%
Gender	Female	5	100.0%	0.0%	0.0%
	Male	343	86.9%	7.3%	5.8%
Age	16-24	164	83.5%	9.8%	6.7%
	25-34	132	90.9%	5.3%	3.8%
	35-44	42	88.1%	2.4%	9.5%
	45-54	10	90.0%	10.0%	0.0%
Service	Navy	18	72.2%	27.8%	0.0%
	Army	330	87.9%	6.0%	6.1%
Rank	Officer	19	89.4%	5.3%	5.3%
	NCO	109	88.1%	6.4%	5.5%
	Other ranks	220	86.4%	7.7%	5.9%
Locations	In Country	283	87.6%	6.4%	6.0%
	Out Country	17	76.5%	23.5%	0.0%
	Missing Location	48	87.5%	6.2%	6.3%
Roles	Combat Afghan & Outside MSB	246	86.2%	6.9%	6.9%
	Inside MSB	37	97.3%	2.7%	0.0%
	Outside Afghan	17	76.5%	23.5%	0.0%
	Missing Roles	48	87.5%	6.2%	6.3%
Duty	Regular	328	86.9%	7.3%	5.8%
	Reservist	11	90.9%	0.0%	9.1%
	Missing Duty	9	88.9%	11.1%	0.0%
Prior Deployments	No Prior Deployments	82	81.7%	13.4%	4.9%
	1 - 2 Prior Deployments	125	85.6%	5.6%	8.8%
	3 - 4 Prior Deployments	45	93.3%	4.5%	2.2%
	5+ Prior Deployments	42	88.1%	7.1%	4.8%

	Missing No. Prior Deployments	54	92.6%	3.7%	3.7%
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Table 16.38: Change in triglyceride (lipid profile) risk categories between pre- and post-deployment

Characteristics	Sub groups	Pre-Post Deployment	No Change %	Increase %	Decrease 1 Step %
		N			
Total Sample		348	69.0%	14.9%	16.1%
Gender	Female	5	80.0%	0.0%	20.0%
	Male	343	68.8%	15.2%	16.0%
Age	16-24	164	69.5%	15.9%	14.6%
	25-34	132	67.4%	15.9%	16.7%
	35-44	42	71.4%	11.9%	16.7%
	45-54	10	70.0%	0.0%	30.0%
Service	Navy	18	83.3%	11.1%	5.6%
	Army	330	68.2%	15.1%	16.7%
Rank	Officer	19	42.1%	36.8%	21.1%
	NCO	109	69.7%	9.2%	21.1%
	Other ranks	220	70.9%	15.9%	13.2%
Locations	In Country	283	68.9%	14.8%	16.3%
	Out Country	17	82.3%	11.8%	5.9%
	Missing Location	48	64.6%	16.6%	18.8%
Roles	Combat Afghan & Outside MSB	246	68.7%	15.9%	15.4%
	Inside MSB	37	70.3%	8.1%	21.6%
	Outside Afghan	17	82.3%	11.8%	5.9%
	Missing Roles	48	64.6%	16.6%	18.8%
Duty	Regular	328	69.2%	15.6%	15.2%
	Reservist	11	72.7%	0.0%	27.3%
	Missing Duty	9	55.6%	11.1%	33.3%
Prior Deployments	No Prior Deployments	82	76.8%	11.0%	12.2%
	1 - 2 Prior Deployments	125	66.4%	16.8%	16.8%
	3 - 4 Prior Deployments	45	77.8%	8.9%	13.3%
	5+ Prior Deployments	42	66.7%	14.3%	19.0%

	Missing No. Prior Deployments	54	57.4%	22.2%	20.4%
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Appendix X

Chapter Seventeen

Chapter Seventeen – Personal Relationships

Table 17.1: Intimate relationship status at pre- and post-deployment for those in a relationship at pre-deployment

Characteristics	Sub groups	Pre-Post Deployment N	At Pre Only %	At Pre and Post %
Total Sample		913	7.7%	92.3%
Gender	Female	86	19.8%	80.2%
	Male	827	6.4%	93.6%
Age	16-24	180	16.1%	83.9%
	25-34	381	8.1%	91.9%
	35-44	237	2.5%	97.5%
	45-54	97	3.1%	96.9%
	55 and over	18	5.6%	94.4%
Service	Navy	48	8.3%	91.7%
	Army	595	7.9%	92.1%
	Air Force	270	7.0%	93.0%
Rank	Officer	195	5.6%	94.4%
	NCO	414	5.6%	94.4%
	Other ranks	304	11.8%	88.2%
Locations	In Country	644	7.3%	92.7%
	Out Country	269	8.6%	91.4%
Roles	Combat Afghan & Outside MSB	412	6.6%	93.4%
	Inside MSB	229	8.7%	91.3%
	Outside Afghan	272	8.5%	91.5%
Duty	Regular	878	7.7%	92.3%
	Reservist	35	5.7%	94.3%
Prior Deployments	No Prior Deployments	261	11.1%	88.9%
	1 - 2 Prior Deployments	298	6.4%	93.6%

	3 - 4 Prior Deployments	126	2.4%	97.6%
	5+ Prior Deployments	142	4.9%	95.1%
	Missing No. Prior Deployment	86	14.0%	86.0%

Table 17.3: Change in level of relationship satisfaction between pre- and post-deployment in pre- and post-deployment sample

Characteristics	Sub groups	Pre-Post Deployment N	No Change %	Improved %	Deteriorated %
Total Sample		827	65.9%	13.6%	20.5%
Gender	Female	69	66.7%	10.1%	23.2%
	Male	758	65.9%	13.8%	20.3%
Age	16-24	147	53.1%	18.4%	28.5%
	25-34	343	64.7%	15.8%	19.5%
	35-44	228	71.9%	8.8%	19.3%
	45-54	93	75.2%	10.7%	14.1%
	55 and over	16	68.7%	6.3%	25.0%
Service	Navy	45	68.9%	11.1%	20.0%
	Army	535	62.1%	15.3%	22.6%
	Air Force	247	73.7%	10.1%	16.2%
Rank	Officer	184	70.6%	9.3%	20.1%
	NCO	385	68.3%	13.0%	18.7%
	Other ranks	258	58.9%	17.5%	23.6%
Locations	In Country	583	63.6%	14.6%	21.8%
	Out Country	244	71.3%	11.0%	17.7%
Roles	Combat Afghan & Outside MSB	370	60.2%	17.1%	22.7%
	Inside MSB	210	69.0%	10.5%	20.5%
	Outside Afghan	247	71.7%	10.9%	17.4%
Duty	Regular	795	66.2%	13.6%	20.2%
	Reservist	32	59.4%	12.5%	28.1%
Prior Deployments	No Prior Deployments	228	67.6%	13.1%	19.3%
	1 - 2 Prior Deployments	275	66.9%	10.9%	22.2%
	3 - 4 Prior Deployments	121	62.8%	14.1%	23.1%
	5+ Prior Deployments	132	67.4%	15.9%	16.7%

	Missing No. Prior Deployment	71	59.2%	19.7%	21.1%
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Table17.6: Summary of receiving personal support from family during most recent deployment, for the pre- and post-deployment sample

Characteristics	Sub groups	Total N	Agree %	Disagree %	Not Applicable %
Total Sample		1241	83.2%	4.8%	12.0%
Gender	Female	122	86.0%	6.6%	7.4%
	Male	1119	82.9%	4.6%	12.5%
Age	16-24	369	81.3%	2.7%	16.0%
	25-34	492	81.5%	6.3%	12.2%
	35-44	255	86.7%	5.5%	7.8%
	45-54	106	89.6%	2.8%	7.6%
	55 and over	19	84.2%	5.3%	10.5%
Service	Navy	66	81.8%	3.0%	15.2%
	Army	865	83.1%	5.4%	11.5%
	Air Force	310	83.9%	3.2%	12.9%
Rank	Officer	238	85.7%	4.6%	9.7%
	NCO	494	82.6%	6.1%	11.3%
	Other ranks	509	82.7%	3.5%	13.8%
Locations	In Country	925	83.3%	4.8%	11.9%
	Out Country	316	82.9%	4.8%	12.3%
Roles	Combat Afghan & Outside MSB	637	83.5%	4.9%	11.6%
	Inside MSB	284	82.7%	4.6%	12.7%
	Outside Afghan	320	83.1%	4.7%	12.2%
Duty	Regular	1213	83.1%	4.8%	12.1%
	Reservist	28	89.3%	3.6%	7.1%
Prior Deployments	No Prior Deployments	399	82.2%	3.3%	14.5%
	1 - 2 Prior Deployments	414	84.5%	4.6%	10.9%
	3 - 4 Prior Deployments	157	81.5%	6.4%	12.1%
	5+ Prior Deployments	155	80.6%	8.4%	11.0%
	Missing No. Prior Deployments	116	87.9%	3.5%	8.6%

Table 17.8: Percentage of respondents who did and did not remain in a significant relationship at post-deployment by length of most recent deployment.

Length of most recent deployment (category)	N	Still in relationship post-deployment	No longer in relationship post-deployment
<= 5 months	299	93.3%	6.7%
6-7 months	283	90.8%	9.2%
8 months	191	91.6%	8.4%
9-12 months	140	94.3%	5.7%

p=0.45

Table 17.9: Percentage of respondents with increased, decreased or unchanged relationship satisfaction for each time on prior deployments category.

Length of most recent deployment (category)	N	Relationship satisfaction Increase	Relationship Satisfaction Decrease	Relationship satisfaction No change
<= 5 months	275	4.4%	4.7%	90.9%
6-7 months	249	2.8%	7.2%	90.0%
8 months	175	1.1%	9.1%	89.7%
9-12 months	128	2.3%	10.2%	87.5%

p= 0.23

Table 17.11: Percentage of respondents who did and did not perceive support for each length of most recent deployment.

Length of most recent deployment (category)		Perceived support from family	
	N	Agree	Disagree
<= 5 months	334	94.6%	5.4%
6-7 months	321	94.1%	5.9%
8 months	239	94.6%	5.4%
9-12 months	198	95.4%	4.6%

p=0.66

Table 17.12: Percentage of respondents in each role who did and did not remain in a significant relationship at post-deployment.

Role on recent deployment	N	Still in relationship post-deployment	No longer in relationship post-deployment
Combat Afghan & Outside MSB	412	93.4%	6.6%
Inside MSB	229	91.3%	8.7%
Outside Afghan	272	91.5%	8.5%

p=0.16

Table 17.13: Percentage of respondents in each role with increased, decreased or unchanged relationship satisfaction.

Role on recent deployment	N	Relationship satisfaction Increase	Relationship Satisfaction Decrease	Relationship satisfaction No change
Combat Afghan & Outside MSB	370	3.5%	8.1%	88.4%
Inside MSB	210	2.4%	8.1%	89.5%
Outside Afghan	247	2.4%	5.3%	92.3%

p=0.85

Table 17.14: Percentage of respondents in each role who did and did not report relationship breakdown.

Role on recent deployment		Relationship breakdown	
	N	Yes	No
Combat Afghan & Outside MSB	391	14.8%	85.2%
Inside MSB	215	12.1%	87.9%
Outside Afghan	244	16.0%	84.0%

p=0.09

Table 17.15: Percentage of respondents in each role who did and did not perceive support from their family.

Role on recent deployment		Perceived support from family	
	N	Agree	Disagree
Combat Afghan & Outside MSB	563	94.5%	5.5%
Inside MSB	248	94.8%	5.2%
Outside Afghan	281	94.7%	5.3%

p=0.20

Table 17.16: Percentage of respondents who did and did not remain in a significant relationship at post-deployment for each time on prior deployment category.

Total time on prior deployments (category)	N	Still in relationship post-deployment	No longer in relationship post-deployment
None	261	88.9%	11.1%
1-6 months	170	91.8%	8.2%
7+ months	206	94.7%	5.3%

p=0.39

Table 17.17: Percentage of respondents with increased, decreased or unchanged relationship satisfaction for each time on prior deployment category.

Total time on prior deployments (category)	N	Relationship satisfaction Increase	Relationship Satisfaction Decrease	Relationship satisfaction No change
None	228	4.0%	5.7%	90.3%
1-6 months	156	2.6%	6.4%	91.0%
7-12 months	149	4.7%	10.1%	85.2%
>12 months	36	5.6%	8.3%	86.1%

p= 0.80

Table 17.18: Percentage of respondents who did and did not report relationship breakdown for each time on prior deployment category.

Total time on prior deployments (category)		Relationship breakdown	
	N	Yes	No
None	242	12.4%	87.6%
1-6 months	155	13.6%	86.4%
7-12 months	155	16.8%	83.2%
>12 months	37	21.6%	78.4%

p=0.47

Table 17.19: Percentage of respondents who did and did not perceive support from family at post-deployment for each time on prior deployment category.

Total time on prior deployments (category)		Perceived support from family	
	N	Agree	Disagree
None	341	96.2%	3.8%
1-6 months	187	94.6%	5.4%
7-12 months	214	94.4%	5.6%
>12 months	49	6.1%	93.9%

p=0.84

Table 17.20: Percentage of respondents who did and did not remain in a significant relationship at post-deployment for each number of prior deployments.

Number of prior deployments (category)	N	Still in relationship post-deployment	No longer in relationship post-deployment
None	261	88.9%	11.1%
1-2 times	298	93.6%	6.4%
2-4 times	126	97.6%	2.4%
5+ times	142	95.1%	4.9%

p=0.24

Table 17.21: Percentage of respondents with increased, decreased or unchanged relationship satisfaction for each number of prior deployments.

Number of prior deployments (category)	N	Relationship satisfaction Increase	Relationship Satisfaction Decrease	Relationship satisfaction No change
None	228	4.0%	5.7%	90.3%
1-2 times	275	1.5%	8.4%	90.2%
2-4 times	212	6.6%	9.1%	84.3%
5+ times	132	1.5%	5.3%	93.2%

p=0.12

Table 17.22: Percentage of respondents who did and did not report relationship breakdown for each number of prior deployments

Number of prior deployments (category)		Relationship breakdown	
	N	Yes	No
None	242	12.4%	87.6%
1-2 times	276	14.5%	85.5%
3-4 times	123	14.6%	85.4%
5+ times	133	16.5%	83.5%

p=0.55

Table 17.23: Percentage of respondents who did and did not perceive support from family for each number of prior deployments.

Number of prior deployments (category)		Perceived support from family	
	N	Agree	Disagree
None	341	96.2%	3.8%
1-2 times	369	94.8%	5.2%
3-4 times	138	92.7%	7.3%
5+ times	138	90.6%	9.4%

p=0.22

Table 17.24: Percentage of respondents with previous combat exposure, who did and did not remain in a significant relationship at post-deployment.

Previous combat exposure	N	Still in relationship post-deployment	No longer in relationship post-deployment
Exposed	135	92.6%	7.4%
Unexposed	745	92.3%	7.7%

p=0.39

Table 17.25: Percentage of respondents exposed to previous combat with increased, decreased or unchanged relationship satisfaction.

Previous combat exposure	N	Relationship satisfaction Increase	Relationship Satisfaction Decrease	Relationship satisfaction No change
Exposed	120	5.8%	5.8%	88.3%
Unexposed	677	2.5%	7.4%	90.1%

p=0.10

Table 17.26: Percentage of respondents exposed to previous combat, who did and did not report relationship breakdown .

Previous combat exposure		Relationship breakdown	
	N	Yes	No
Exposed	123	18.7%	81.3%
Unexposed	692	13.9%	86.1%

p=0.14

Table 17.27: Percentage of respondents exposed to previous combat who did and did not perceive support from their family.

Previous combat exposure		Perceived support from family	
	N	Agree	Disagree
Exposed	147	90.5%	9.5%
Unexposed	904	95.1%	4.9%

p=0.09

Table 17.28: Percentage of respondents who did and did not remain in a significant relationship at post-deployment for each PCL-C change category.

PCL-C change (category)	N	Still in relationship post-deployment	No longer in relationship post-deployment
PCL-C Increase	82	91.5%	8.5%
PCL-C Decrease	14	85.7%	14.3%
PCL-C No change	755	93.1%	6.9%

p=0.77

Table 17.32: Percentage of respondents who did and did not remain in a significant relationship at post-deployment for each AUDIT change category.

AUDIT change (category)	N	Still in relationship post-deployment	No longer in relationship post-deployment
AUDIT Increase	108	92.6%	7.4%
AUDIT Decrease	97	94.8%	5.2%
AUDIT No change	636	92.9%	7.1%

p=0.60

Table 17.33: Percentage of respondents with increased, decreased or unchanged relationship satisfaction for each AUDIT change category.

AUDIT change (category)	N	Relationship satisfaction Increase	Relationship Satisfaction Decrease	Relationship satisfaction No change
AUDIT Increase	98	2.0%	12.3%	85.7%
AUDIT Decrease	94	6.4%	7.4%	86.2%
AUDIT No change	580	2.8%	6.5%	90.7%

p=0.18

Table 17.35: Percentage of respondents in each AUDIT change category, who did or did not perceive support from family.

AUDIT change (category)		Perceived support from family	
	N	Agree	Disagree
AUDIT Increase	146	93.1%	6.9%
AUDIT Decrease	124	95.2%	4.8%
AUDIT No change	752	94.7%	5.3%

p=0.65

Table 17.36: Percentage of respondents who did and did not remain in a significant relationship at post-deployment for each co-morbidity category.

Number of co-morbidities (post-deployment)	N	Still in relationship post-deployment	No longer in relationship post-deployment
No Psychological Conditions	485	94.0%	6.0%
One Psychological Condition	262	89.7%	10.3%
Two Psychological Conditions	101	93.1%	6.1%
Three Psychological Conditions	53	88.7%	11.3%

p=0.15

Appendix Y

Chapter Eighteen

Chapter Eighteen – Relationships with Children

Table 18.1: Perceived impact of military commitments on their Children at post-deployment, for the pre- and post-deployment sample

Characteristics	Sub groups	Pre-Post Deployment N	Negative Impact N(%)	No Impact N(%)	Positive Impact N(%)	Not Applicable %
Total Sample		1193	28.8%	17.3%	6.0%	47.9%
Gender	Female	118	20.3%	7.6%	5.1%	67.0%
	Male	1075	29.8%	18.3%	6.0%	45.9%
Age	16-24	345	6.7%	15.6%	0.3%	77.4%
	25-34	471	28.7%	14.4%	3.0%	53.9%
	35-44	257	53.3%	19.1%	12.1%	15.5%
	45-54	102	44.1%	28.4%	17.7%	9.8%
	55 and over	18	22.2%	33.3%	38.9%	5.6%
Service	Navy	65	36.9%	18.5%	4.6%	40.0%
	Army	812	28.2%	14.9%	4.3%	52.6%
	Air Force	316	28.8%	23.1%	10.4%	37.7%
Rank	Officer	230	35.2%	12.6%	6.5%	45.7%
	NCO	484	38.4%	21.1%	8.5%	32.0%
	Other ranks	479	16.1%	15.7%	3.1%	65.1%
Locations	In Country	872	29.0%	15.3%	5.0%	50.7%
	Out Country	321	28.4%	22.7%	8.4%	40.5%
Roles	Combat Afghan & Outside MSB	588	26.4%	14.8%	3.9%	54.9%
	Inside MSB	280	35.0%	15.7%	7.1%	42.2%
	Outside Afghan	325	28.0%	23.1%	8.6%	40.3%
Duty	Regular	1158	28.4%	17.0%	5.7%	48.9%
	Reservist	35	42.9%	25.7%	14.3%	17.1%
Prior Deployments	No Prior Deployments	391	17.9%	18.4%	4.9%	58.8%

	1 - 2 Prior Deployments	389	28.0%	16.2%	6.2%	49.6%
	3 - 4 Prior Deployments	148	41.9%	16.2%	6.8%	35.1%
	5+ Prior Deployments	150	47.3%	22.0%	8.0%	22.7%
	Missing No. Prior Deployment	115	27.8%	12.2%	5.2%	54.8%

Table 18.4: Summary of answers provided at post-deployment to the question regarding problems with their children during most recent deployment, for the pre- and post-deployment sample

Characteristics	Sub groups	Total N	Agree %	Disagree %	Not Applicable %
Total Sample		1240	9.0%	32.1%	58.9%
Gender	Female	122	9.8%	21.3%	68.9%
	Male	1118	8.9%	33.3%	57.8%
Age	16-24	369	0.5%	22.0%	77.5%
	25-34	490	8.0%	29.4%	62.6%
	35-44	256	20.7%	41.8%	37.5%
	45-54	106	16.0%	51.9%	32.1%
	55 and over	19	5.3%	57.9%	36.8%
Service	Navy	66	19.7%	21.2%	59.1%
	Army	863	6.6%	32.0%	61.4%
	Air Force	311	13.5%	34.7%	51.8%
Rank	Officer	238	13.0%	37.0%	50.0%
	NCO	493	11.6%	36.3%	52.1%
	Other ranks	509	4.7%	25.7%	69.6%
Locations	In Country	923	7.5%	32.2%	60.3%
	Out Country	317	13.6%	31.9%	54.5%
Roles	Combat Afghan & Outside MSB	636	5.3%	30.7%	64.0%
	Inside MSB	283	12.4%	35.0%	52.6%
	Outside Afghan	321	13.4%	32.4%	54.2%
Duty	Regular	1212	8.7%	31.6%	59.7%
	Reservist	28	21.4%	53.6%	25.0%
Prior Deployments	No Prior Deployments	399	7.5%	27.3%	65.2%
	1 - 2 Prior Deployments	414	8.5%	33.3%	58.2%
	3 - 4 Prior Deployments	156	15.4%	32.7%	51.9%
	5+ Prior Deployments	155	11.0%	38.7%	50.3%
	Missing No. Prior Deployments	116	5.2%	34.5%	60.3%

Table 18.5: Percentage of respondents who did and did not perceive problems with their children for each length of recent deployment category.

Length of most recent deployment (category)	N	Perceived problems with children	No perceived problems with children
<=5 months	153	25.5%	74.5%
6-7 months	163	23.9%	76.1%
8 months	102	17.6%	82.4%
9-12 months	92	17.4%	82.6%

p=0.95

Table 18.6: Percentage of respondents who did and did not perceive a negative impact on their children for each length of recent deployment category.

Length of most recent deployment (category)	N	No negative impact at post-deployment	Negative impact at post-deployment
<=5 months	204	48.0%	52.0%
6-7 months	215	45.1%	54.9%
8 months	111	44.1%	55.9%
9-12 months	91	36.3%	63.7%

p=0.68

Table 18.7: Percentage of respondents in each role, who did and did not perceive problems with their children while on deployment.

Role on recent deployment	N	Perceived problems with children	No perceived problems with children
Combat Afghan & Outside MSB	229	14.8%	85.2%
Inside MSB	134	26.1%	73.9%
Outside Afghan	147	29.3%	70.7%

p=0.31

Table 18.8: Percentage of respondents in each role, who did and did not perceive a negative impact on their children at post-deployment.

Role on recent deployment	N	No negative impact at post-deployment	Negative impact at post-deployment
Combat Afghan & Outside MSB	265	41.5%	58.5%
Inside MSB	162	39.5%	60.5%
Outside Afghan	194	53.1%	46.9%

p=0.23

Table 18.9: Percentage of respondents who did and did not perceive problems with their children for each time on prior deployment category.

Total time on prior deployments (category)	N	Perceived problems with children	No perceived problems with children
None	139	21.6%	78.4%
1-6 months	102	20.6%	79.4%
7-12 months	84	21.4%	78.6%
>12 months	19	31.6%	68.4%

p=0.72

Table 18.10: Percentage of respondents who did and did not perceive a negative impact on their children for each time on prior deployment category.

Total time on prior deployments (category)	N	No negative impact at post-deployment	Negative impact at post-deployment
None	161	56.5%	43.5%
1-6 months	123	40.6%	59.4%
7-12 months	104	44.2%	55.8%
>12 months	27	48.2%	51.8%

p=0.19

Table 18.11: Percentage of respondents who did and did not perceive problems with their children for each number of prior deployments.

Number of prior deployments (category)	N	Perceived problems with children	No perceived problems with children
None	139	21.6%	78.4%
1-2 times	173	20.2%	79.8%
3-4 times	75	32.0%	68.0%
5+ times	77	22.1%	77.9%

p=0.29

Table 18.12: Percentage of respondents who did and did not perceive a negative impact on their children for each number of prior deployments.

Number of prior deployments (category)	N	No negative impact at post-deployment	Negative impact at post-deployment
None	161	56.5%	43.5%
1-2 times	196	44.4%	55.6%
3-4 times	96	35.4%	64.6%
5+ times	116	38.8%	61.2%

p=0.10

Table 18.14: Percentage of respondents with previous combat exposure, who did and did not perceive negative impact on their children at post-deployment.

Previous combat exposure	N	No negative impact at post-deployment	Negative impact at post-deployment
Exposed	86	39.5%	60.5%
Unexposed	514	45.1%	54.9%

p=0.99

Table 18.15: Percentage of respondents who did and did not perceive problems with their children for each PCL-C change category.

PCL-C change (category)	N	Perceived problems with children	No perceived problems with children
PCL-C Increase	62	25.8%	74.2%
PCL-C Decrease	7	42.9%	57.1%
PCL-C No change	419	21.2%	78.8%

p=0.15

Table 18.17: Percentage of respondents who did and did not perceive problems with their children for each AUDIT change category.

AUDIT change (category)	N	Perceived problems with children	No perceived problems with children
AUDIT Increase	67	19.4%	80.6%
AUDIT Decrease	49	26.5%	73.5%
AUDIT No change	363	22.3%	77.7%

p=0.66

Table 18.18: Percentage of respondents who did and did not perceive a negative impact on their children for each AUDIT change category.

AUDIT change (category)	N	No negative impact at post-deployment	Negative impact at post-deployment
AUDIT Increase	73	34.3%	65.7%
AUDIT Decrease	63	50.8%	49.2%
AUDIT No change	437	45.3%	54.7%

p=0.09

Appendix Z

Chapter Twenty One

Chapter Twenty One– Allostatic Load

Table 21.1: Comparison between mean allostatic load scores at pre-deployment for respondents completing only pre-deployment and respondents completing both pre- and post-deployment

Characteristics	Sub groups	Pre Deployment N	Pre Deployment Mean at Pre	Pre Post Deployment N	Pre Post Deployment Mean at Pre	Difference
						Mean (CI)
Total Sample		257	2.46	324	2.25	-0.21 (-0.48, 0.07)
Gender	Female	5	2.40	5	3.40	1.00 (-1.06, 3.06)
	Male	252	2.46	319	2.23	-0.22 (-0.50, 0.05)
Age	16-24	92	2.01	158	1.80	-0.21 (-0.62, 0.20)
	25-34	131	2.56	119	2.41	-0.15 (-0.54, 0.25)
	35-44	30	2.97	39	3.26	0.29 (-0.47, 1.05)
	45-54	4	5.50	8	3.75	-1.75 (-3.66, 0.16)
Service	Navy	15	3.07	17	2.82	-0.19 (-0.47, 0.09)
	Army	239	2.41	307	2.22	-0.24 (-1.40, 0.91)
	Air Force	3	3.00	NA	NA	NA
Rank	Officer	32	2.50	17	2.88	0.38 (-0.59, 1.35)
	NCO	93	2.71	98	2.61	-0.10 (-0.57, 0.37)
	Other ranks	132	2.27	209	2.03	-0.24 (-0.60, 0.12)
Duty	Regular	221	2.52	305	2.26	-0.26 (-0.55, 0.03)
	Reservist	19	2.26	10	2.00	-0.26 (-1.54, 1.01)
	Missing Duty	17	1.76	9	2.00	0.24 (-1.11, 1.58)
Prior Deployments	No Prior Deployments	54	2.28	79	1.95	-0.33 (-0.91, 0.25)
	1 - 2 Prior Deployments	85	2.49	118	2.25	-0.25 (-0.72, 0.22)
	3 - 4 Prior Deployments	38	2.66	43	2.16	-0.50 (-1.23, 0.24)
	5+ Prior Deployments	35	2.54	33	2.91	0.37 (-0.43, 1.16)
	Missing No Prior Deployments	45	2.36	51	2.37	0.01 (-0.63, 0.67)

Note: Location and Role information only available for pre- post-deployment sample and therefore were excluded from this table.

Table 21.3: Change in mean allostatic load scores for respondents completing both pre- and post-allostatic load scores

Characteristics	Sub groups	Pre-Post Deployment	Pre Deployment	Post Deployment	Change
		N	Mean	Mean	mean (CI)
Total Sample		324	2.25	2.50	0.25 (0.06, 0.44)
Gender	Female	5	3.40	3.20	-0.20 (-1.82, 1.42)
	Male	319	2.23	2.49	0.26 (0.07, 0.45)
Age	16-24	158	1.80	1.94	0.14 (-0.11, 0.39)
	25-34	119	2.41	2.61	0.20 (-0.10, 0.50)
	35-44	39	3.26	4.00	0.74 (0.03, 1.46)
	45-54	8	3.75	4.63	0.88 (-1.15, 2.90)
Service	Navy	17	2.82	3.41	0.59 (-0.42, 1.60)
	Army	307	2.22	2.45	0.23 (0.04, 0.43)
Rank	Officer	17	2.88	2.94	0.06 (-0.72, 0.84)
	NCO	98	2.61	3.12	0.51 (0.15, 0.87)
	Other ranks	209	2.03	2.18	0.15 (-0.08, 0.38)
Locations	In country	264	2.23	2.50	0.27 (0.06, 0.48)
	Out country	16	2.88	3.56	0.69 (-0.37, 1.75)
	Missing Country	44	2.16	2.16	0 (-0.48, 0.48)
Roles	Combat Afghan & Outside MSB	229	2.17	2.44	0.28 (0.05, 0.50)
	Inside MSB	35	2.63	2.86	0.23 (-0.41, 0.86)
	Outside Afghan	16	2.88	3.56	0.69 (-0.37, 1.75)
	Missing Role	44	2.16	2.16	0 (-0.48, 0.48)
Duty	Regular	305	2.26	2.51	0.25 (0.06, 0.44)
	Reservist	10	2.00	2.80	0.80 (-0.77, 2.37)
	Missing Duty	9	2.00	1.77	-0.22 (-1.15, 0.70)
Prior Deployments	No Prior Deployments	79	1.95	2.29	0.34 (-0.02, 0.70)
	1 - 2 Prior Deployments	118	2.25	2.31	0.07 (-0.24, 0.38)
	3 - 4 Prior Deployments	43	2.16	2.53	0.37 (-0.21, 0.95)
	5+ Prior Deployments	33	2.91	3.70	0.79 (0.11, 1.47)
	Missing Prior Deployments	51	2.37	2.47	0.10 (-0.38, 0.57)

Table 21.5: Proportion of participants in each role on deployment for allostatic load change categories.

Role on recent deployment	N	Allostatic load Increase	Allostatic load Decrease	Allostatic load No change
Combat Afghan & Outside MSB	229	43.7%	32.8%	23.6%
Inside MSB	35	45.7%	34.3%	20.0%
Outside Afghan	16	56.2%	18.8%	25.0%

p=0.80

Table 21.6: Proportion of participants in each allostatic load change category by number of deployment exposures

Deployment exposure (category)	N	Allostatic load Increase	Allostatic load Decrease	Allostatic load No change
Low	15	46.7%	13.3%	40.0%
Medium	36	47.2%	33.3%	19.4%
High	88	53.4%	31.8%	14.8%
Very High	133	37.6%	33.8%	28.6%

p=0.10

Table 21.7: Percentage of respondents in each allostatic load change category, for those who answered Yes vs No to at least one exposure for each experience.

	Exposed					Unexposed				
Deployment experiences	N	Percentage	Allostatic load Increase	Allostatic load Decrease	Allostatic load No change	N	Percentage	Allostatic load Increase	Allostatic load Decrease	Allostatic load No change
Coming under fire	245	90.4%	42.9%	32.6%	24.5%	26	9.6%	61.5%	23.1%	15.4%
Vulnerable situations or fear of events	253	93.0%	43.9%	33.2%	22.9%	19	7.0%	52.6%	15.8%	31.6%
Casualties among those close to you	235	86.7%	41.3%	34.9%	23.8%	36	13.3%	63.9%	13.9%	22.2%
In danger of being killed/injured	211	77.9%	43.6%	31.8%	26.6%	60	22.1%	46.7%	33.3%	20.0%
Seeing/handling dead bodies	196	72.3%	41.8%	34.7%	23.5%	75	27.7%	50.7%	25.3%	24.0%
Discharging own weapon	146	53.9%	43.1%	29.5%	27.4%	125	46.1%	46.4%	34.4%	19.2%
Unable to respond to a threatening situation	96	35.6%	36.5%	38.5%	25.0%	174	64.4%	48.3%	28.7%	23.0%
Human degradation	63	23.3%	44.4%	34.9%	20.6%	208	76.7%	44.2%	31.3%	24.5%
Actions resulting in injury or death	37	13.7%	37.8%	29.7%	32.4%	234	86.3%	45.3%	32.5%	22.2%

Table 21.8: Percentage of respondents in each Allostatic load category, for each category of prior deployments

Number of prior deployments (categories)	N	Allostatic load Increase	Allostatic load Decrease	Allostatic load No change
None	79	45.6%	29.1%	25.3%
1-2 times	118	40.7%	39.0%	20.3%
3-4 times	43	44.2%	30.2%	25.6%
5+ times	33	48.5%	27.3%	24.2%

p=0.78

Table 21.9: Percentage of respondents in each Allostatic load category, for each category of prior deployment length

Total time on prior deployments (months)	N	Allostatic load Increase	Allostatic load Decrease	Allostatic load No change
None	79	45.6%	29.1%	25.3%
1-6 months	54	38.9%	33.3%	27.8%
7-12 months	103	44.7%	34.922%	20.4%
>12 months	22	54.6%	27.3%	18.2%

p=0.84

Table 21.10: Proportion of participants with and without combat exposure for allostatic load change categories.

Previous combat exposure	N	Allostatic load Increase	Allostatic load Decrease	Allostatic load No change
Yes	70	48.6%	30.0%	21.4%
No	223	44.4%	31.8%	23.8%

p=0.082

Table 21.11: Proportion of participants in each allostatic load change category for each category of K10 change

K10 change (category)	N	Allostatic load Increase	Allostatic load Decrease	Allostatic load No change
K10 increase	46	43.5%	30.4%	26.1%
K10 decrease	26	57.7%	23.1%	19.2%
K10 No change	190	44.2%	33.2%	22.6%

p=0.73

Table 21.12: Proportion of participants in each allostatic load change category for each category of PCL-C change

PCL-C change (category)	N	Allostatic load Increase	Allostatic load Decrease	Allostatic load No change
PCL-C increase	27	40.7%	22.2%	37.0%
PCL-C decrease	5	60.0%	40.0%	0.0%
PCL-C No change	225	46.2%	41.6%	22.2%

p=0.56

Table 21.13: Mean (95% CI) number of somatic symptoms at post-deployment for each allostatic load change category

Allostatic load change (category)	N	Mean Somatic symptoms (95%CI)
Allostatic load Increase	101	9.7 (7.5, 11.8)
Allostatic load Decrease	74	9.1 (7.1, 11.1)
Allostatic load No change	49	11.3 (8.5, 14.2)

p=0.46

Table 21.14: Proportion of participants in each allostatic load change category by number of post-deployment co-morbidities

Number of co-morbidities at post-deployment (category)	N	Allostatic load Increase	Allostatic load Decrease	Allostatic load No change
No Psychological Conditions	126	45.2%	33.3%	21.4%
One Psychological Condition	88	43.2%	31.8%	25.0%
Two Psychological Conditions	40	47.5%	32.5%	20.0%
Three Psychological Conditions	24	41.7%	25.0%	33.3%

p=0.91