Long-term risk for mental health symptoms in Dutch ISAF veterans: the role of perceived social support – Supplementary Material

Sija J. van der Wal MSc1,2,3\*, Elbert Geuze PhD1,3, Eric Vermetten MD, PhD2,3,4,5

1 Brain Research and Innovation Centre, Ministry of Defence, Utrecht, The Netherlands

2 Department of Psychiatry, Leiden University Medical Center, Leiden, The Netherlands

3 UMC Utrecht Brain Center, Department of Psychiatry, University Medical Center Utrecht, Utrecht, The Netherlands

4 ARQNational Pyschotrauma Center, Diemen, The Netherlands

5 Military Mental Healthcare, Ministry of Defence, Utrecht, The Netherlands

\* Corresponding author: Sija J. van der Wal MSc

Address: Brain Research and Innovation Centre, Military Mental Healthcare, PO Box 90000, MPC 50A, 3509 AA Utrecht, The Netherlands

Tel: +31302502519

E.: s.j.vanderwal@umcutrecht.nl

**Table S1:** Demographics and other characteristics of participants with a 10-year follow-up measurement versus participants without a 10-year follow-up measurement.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Participants with a 10-year follow-up measurement (n=598)a** | **Participants without a 10-year follow-up measurement (n=409)a** | **p-value** |
| Sex Male Female | 543 (91%) 55 (9%) | 378 (92%) 31 (8%) |  0.367  |
| Age (years)b <21 ≥21 |  76 (13%)521 (87%) |  63 (16%)340 (84%) |  0.193  |
| Educational levelc Low Moderate High | 194 (35%)280 (51%) 77 (14%) | 172 (48%)162 (45%) 25 (7%) | **<0.001**   |
| Rankd Private Corporal Non-commissioned officer Staff officer | 198 (33%)117 (20%)176 (30%)102 (17%) | 196 (51%) 86 (22%) 75 (19%) 30 (8%) | **<0.001**    |
| Previous deployment(s)e Yes No | 284 (52%)260 (48%) | 136 (62%)219 (38%) | **<0.001**  |
| Role during deploymentf Inside the military base Both inside and outside the military base Outside the military base | 186 (38%) 42 (9%)258 (53%) |  62 (20%) 31 (10%)225 (71%) | **<0.001**   |
| Deployment year 2005 or 2006 2007 or 2008 | 153 (26%)445 (74%) | 108 (26%)301 (74%) |  0.770  |
| New deployment(s)g Yes No | 271 (46%)325 (55%)  |  .. .. |  .. .. |
| DES (deployment stressors) total scoreh |  4.30 (3.15) |  4.91 (3.31) |  **0.016** |
| DDRI-F (unit social support) total scorei | 45.95 (9.80) | 43.48 (11.26) |  0.063 |
| DDRI-L (support after deployment) total scorej | 60.77 (8.33) | 58.92 (11.22) |  0.188 |
| ETISR-SF (early trauma) total scorek |  3.35 (3.13) |  3.72 (2.93) |  0.081 |

Note: data are n (%) or mean (SD). Differences in descriptive characteristics between participants with and without a ten-year follow-up measurement were tested with a χ2-test (categorical) or an independent samples t-test (continuous). DES=Deployment Experience Scale. DDRI-F=Deployment Risk and Resilience Inventory part F. DDRI-L=Deployment Risk and Resilience Inventory part L. ETISR-SF=Early Trauma Inventory Self Report-Short Form. Education (ISCED levels): Low=primary and lower secondary education; Moderate=upper secondary, post-secondary non-tertiary, and short cycle tertiary education; High= bachelor, master, and doctoral education. a Sample sizes might not add up to total because of missing data in the descriptive variables; where there is missing data, the total is indicated. Totals for participants with a ten-year follow-up measurement: bn=597, c n=551, d n=593, e n=544, f n=486, g n=596, h n=461, i n=259, j n=258, k n=546; totals for participants without a ten-year follow-up measurement: b n=403, c n=359, d n=387, en=355, f n=318, g n=0, h n=246, i n=76, jn=75, k n=342.

**Table S2:** Number of valid responses on variables included in the analyses (total sample = 978).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Pre** | **1 month** | **6 months** | **1 year** | **2 years** | **10 years** |
| Agoraphobia | 829 | 807 | 731 | 558 | 544 | 600 |
| Anxiety | 818 | 798 | 724 | 553 | 531 | 595 |
| Depression | 823 | 800 | 729 | 552 | 544 | 595 |
| Hostility | 828 | 808 | 732 | 558 | 547 | 598 |
| Age | 976 | - | - | - | - | - |
| Rank | 968 | - | - | - | - | - |
| Previous deployment(s) | 887 | - | - | - | - | - |
| Role during deployment | - | 793 | - | - | - | - |
| Deployment experience | - | 706 | - | - | - | - |
| Unit support | - | - | - | 335 | - | - |
| Social support | - | - | - | 333 | - | - |
| Early general trauma | 921 | - | - | - | - | - |
| Early physical abuse | 925 | - | - | - | - | - |
| Early emotional abuse | 912 | - | - | - | - | - |
| Early sexual abuse | 909 | - | - | - | - | - |

Data are n (%); n indicates the number of participants with valid data on the specific variable

**Table S3:** Reported mental health symptom patterns for each time point.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| agoraphobia | anxiety | depression | hostility | **Pre**N=801 | **1 month**N=782 | **6 months**N=720 | **1 year**N=546 | **2 years**N=529 | **10 years**N=580 |
|  |  |  |  | 768 (95.9%) | 723 (92.5%) | 659 (91.5%) | 495 (90.7%) | 486 (91.9%) | 516 (89.0%) |
| ● |  |  |  |  1 (0.1%) |  3 (0.4%) |  3 (0.4%) |  11 (2.0%) |  5 (1.0%) |  19 (3.3%) |
|  | ● |  |  |  1 (0.1%) |  0 |  0 |  0 |  0 |  2 (0.3%) |
|  |  | ● |  |  0 |  2 (0.3%) |  2 (0.3%) |  2 (0.4%) |  2 (0.4%) |  3 (0.5%) |
|  |  |  | ● |  25 (3.1%) |  41 (5.2%) |  43 (6.0%) |  25 (4.6%) |  24 (4.5%) |  17 (2.9%) |
| ● | ● |  |  |  1 (0.1%) |  2 (0.3%) |  0 |  2 (0.4%) |  0 |  2 (0.3%) |
| ● |  | ● |  |  0 |  0 |  1 (0.1%) |  0 |  0 |  0 |
| ● |  |  | ● |  2 (0.2%) |  8 (1.0%) |  6 (0.8%) |  3 (0.5%) |  3 (0.6%) |  2 (0.3%) |
|  | ● | ● |  |  0 |  0  |  1 (0.1%) |  0  |  0 |  0 |
|  | ● |  | ● |  1 (0.1%) |  0 |  0 |  2 (0.4%) |  0 |  0 |
|  |  | ● | ● |  2 (0.2%) |  1 (0.1%) |  1 (0.1%) |  2 (0.4%) |  2 (0.4%) |  3 (0.5%) |
| ● | ● | ● |  |  0 |  0 |  0 |  0  |  0 |  2 (0.3%) |
| ● | ● |  | ● |  0 |  0 |  2 (0.3%) |  0 |  0 |  1 (0.2%) |
|  | ● | ● | ● |  0 |  0 |  2 (0.3%) |  0 |  3 (0.6%) |  1 (0.2%) |
| ● |  | ● | ● |  0 |  0 |  0 |  0 |  0  |  4 (0.7%) |
| ● | ● | ● | ● |  0 |  2 (0.3%) |  0 |  4 (0.7%) |  4 (0.8%) |  8 (1.4%) |

Data are n (%); prevalences based on the Symptom Checklist-90 (SCL-90); used cut-off values for symptoms: agoraphobia: ≥11; anxiety: ≥22; depression: ≥36; hostility: ≥11.

**Table S4:**Parameter estimates for change in agoraphobia symptoms over time

relative to pre-deployment status without interactions with potential

moderators (n=978).

|  |  |
| --- | --- |
|  | **Time-effect** |
|  | Coefficient (95% CI) | P-value |
| Intercept (pre-deployment) |  7.20 (7.12 – 7.28) | <0.0001 |
| Δ 1 montha |  0.11 (0.01 – 0.21) |  **0.026** |
| Δ 6 monthsa |  0.09 (-0.01 – 0.19) |  0.093 |
| Δ 1 yeara |  0.23 (0.11 – 0.34) | **<0.001** |
| Δ 2 yearsa |  0.20 (0.09 – 0.32) |  **0.001** |
| Δ 10 yearsa |  0.60 (0.48 – 0.71) | **<0.0001** |

Note: a Δ indicates the difference relative to pre-deployment status; 95% CI = 95%

Confidence Interval.

**Table S5:**Parameter estimates for change in anxiety symptoms over time

relative to pre-deployment status without interactions with potential

moderators (n=978).

|  |  |
| --- | --- |
|  | **Time-effect** |
|  | Coefficient (95% CI) | P-value |
| Intercept (pre-deployment) | 11.03 (10.89 – 11.17) | <0.0001 |
| Δ 1 montha |  0.01 (-0.18 – 0.19) |  0.950 |
| Δ 6 monthsa |  0.03 (-0.16 – 0.22) |  0.773 |
| Δ 1 yeara |  0.15 (-0.06 – 0.36) |  0.169 |
| Δ 2 yearsa |  0.16 (-0.05 – 0.37) |  0.137 |
| Δ 10 yearsa |  0.52 (0.32 – 0.72) | **<0.0001** |

Note: a Δ indicates the difference relative to pre-deployment status; 95% CI = 95%

Confidence Interval.

**Table S6:**Parameter estimates for change in depression symptoms over time

relative to pre-deployment status without interactions with potential

moderators (n=978).

|  |  |
| --- | --- |
|  | **Time-effect** |
|  | Coefficient (95% CI) | P-value |
| Intercept (pre-deployment) | 17.98 (17.72 – 18.23) | <0.0001 |
| Δ 1 montha |  0.28 (-0.04 – 0.61) |  0.083 |
| Δ 6 monthsa |  0.32 (-0.02 – 0.65) |  0.062 |
| Δ 1 yeara |  1.06 (0.70 – 1.44) | **<0.0001** |
| Δ 2 yearsa |  1.33 (0.96 – 1.71) | **<0.0001** |
| Δ 10 yearsa |  1.41 (1.05 – 1.77)  | **<0.0001** |

Note: a Δ indicates the difference relative to pre-deployment status; 95% CI = 95%

Confidence Interval.

**Table S7:**Parameter estimates for change in hostility over time relative to

pre-deployment status without interactions with potential moderators (n=978).

|  |  |
| --- | --- |
|  | **Time-effect** |
|  | Coefficient (95% CI) | P-value |
| Intercept (pre-deployment) |  6.98 (6.86 – 7.10) | <0.0001 |
| Δ 1 montha |  0.31 (0.16 – 0.46) | **<0.0001** |
| Δ 6 monthsa |  0.23 (0.08 – 0.39) |  **0.003** |
| Δ 1 yeara |  0.33 (0.15 – 0.50) | **<0.001** |
| Δ 2 yearsa |  0.40 (0.23 – 0.58) | **<0.0001** |
| Δ 10 yearsa |  0.21 (0.04 – 0.37) |  **0.015** |

Note: a Δ indicates the difference relative to pre-deployment status; 95% CI = 95%

Confidence Interval.

**Table S8:**Parameter estimates for change in agoraphobia symptoms over time

relative to pre-deployment status with different moderators (n=978).

|  |  |
| --- | --- |
|  | **Interaction time x moderator variable** |
|  | Coefficient (95% CI) | P-value |
| **Age** |  |  |
| Δ 1 montha | -0.009 (-0.020 – 0.002) |  0.106 |
| Δ 1 yeara | -0.007 (-0.019 – 0.005) |  0.271 |
| Δ 2 yearsa | -0.004 (-0.016 – 0.008) |  0.547 |
| Δ 10 yearsa | -0.026 (-0.038 – -0.015) | **<0.0001** |
| **Rankb** |  |  |
| Δ 1 montha | -0.130 (-0.333 – 0.073) |  0.208 |
| Δ 1 yeara | -0.143 (-0.375 – 0.088) |  0.224 |
| Δ 2 yearsa | -0.127 (-0.361 – 0.107) |  0.288 |
| Δ 10 yearsa | -0.598 (-0.824 – -0.373)  | **<0.0001** |
| **Previous deployment(s)c** |  |  |
| Δ 1 montha |  0.096 (-0.109 – 0.300) |  0.359 |
| Δ 1 yeara |  0.073 (-0.163 – 0.309) |  0.544 |
| Δ 2 yearsa |  0.014 (-0.226 – 0.254) |  0.909 |
| Δ 10 yearsa |  0.286 (0.055 – 0.516) |  **0.015** |
| **Role during deploymentd** |  |  |
| *Both inside and outside the base* |  |  |
| Δ 1 montha |  0.077 (-0.341 – 0.495) |  0.717 |
| Δ 1 yeara |  0.056 (-0.399 – 0.511) |  0.809 |
| Δ 2 yearsa | -0.145 (-0.635 – 0.346) |  0.564 |
| Δ 10 yearsa |  0.424 (-0.055 – 0.903) |  0.082 |
| *Outside the base* |  |  |
| Δ 1 montha |  0.087 (-0.162 – 0.336) |  0.492 |
| Δ 1 yeara |  0.286 (0.010 – 0.562) |  **0.042** |
| Δ 2 yearsa |  0.165 (-0.117 – 0.447) |  0.252 |
| Δ 10 yearsa |  0.665 (0.383 – 0.927) | **<0.001** |
| **Deployment experiencee** |  |  |
| Δ 1 montha |  0.044 (0.011 – 0.077) |  **0.010** |
| Δ 1 yeara |  0.077 (0.036 – 0.118)  | **<0.001** |
| Δ 2 yearsa |  0.040 (-0.001 – 0.081) |  0.059 |
| Δ 10 yearsa |  0.091 (0.052 – 0.131) | **<0.0001** |
| **Unit supportf** |  |  |
| Δ 1 montha |  0.005 (-0.011 – 0.022) |  0.534 |
| Δ 1 yeara | -0.006 (-0.022 – 0.010) |  0.470 |
| Δ 2 yearsa |  0.002 (-0.016 – 0.021) |  0.786 |
| Δ 10 yearsa |  0.013 (-0.006 – 0.031) |  0.159 |
| **Social supportg** |  |  |
| Δ 1 montha | -0.013 (-0.031 – 0.005) |  0.152 |
| Δ 1 yeara | -0.036 (-0.054 – -0.018) | **<0.0001** |
| Δ 2 yearsa | -0.018 (-0.037 – 0.001) |  0.070 |
| Δ 10 yearsa | -0.054 (-0.075 – -0.034) | **<0.0001** |
| **Early general traumah** |  |  |
| Δ 1 montha | -0.007 (-0.068 – 0.055) |  0.831 |
| Δ 1 yeara |  0.061 (-0.010 – 0.133) |  0.093 |
| Δ 2 yearsa |  0.045 (-0.027 – 0.117) |  0.225 |
| Δ 10 yearsa |  0.026 (-0.044 – 0.095) |  0.470 |
| **Early physical abuseh** |  |  |
| Δ 1 montha | -0.011 (-0.088 – 0.066) |  0.780 |
| Δ 1 yeara |  0.021 (-0.071 – 0.112) |  0.659 |
| Δ 2 yearsa | -0.075 (-0.163 – 0.013) |  0.097 |
| Δ 10 yearsa | -0.088 (-0.177 – 0.002) |  0.055 |
| **Early emotional abuseh** |  |  |
| Δ 1 montha |  0.071 (-0.027 – 0.169) |  0.156 |
| Δ 1 yeara |  0.016 (-0.097 – 0.130) |  0.777 |
| Δ 2 yearsa |  0.031 (-0.080 – 0.142) |  0.581 |
| Δ 10 yearsa | -0.028 (-0.139 – 0.082) |  0.616 |
| **Early sexual abuseh** |  |  |
| Δ 1 montha | -0.022 (-0.207 – 0.163) |  0.814 |
| Δ 1 yeara | -0.061 (-0.269 – 0.148) |  0.568 |
| Δ 2 yearsa | -0.151 (-0.346 – 0.043) |  0.127 |
| Δ 10 yearsa | -0.132 (-0.334 – 0.070) |  0.200 |

Note: a Δ indicates the difference relative to pre-deployment status, when there was no

significant difference in symptom score relative to pre-deployment at a time-point, no

covariates were reported; 95% CI = 95% Confidence Interval; b the rank parameter indicates
 the difference between non-commissioned officer and staff officer ranks versus private and

corporal ranks (reference category); c reference category is the group with one or more

previous deployments; d reference category is the group with a role inside the military base;

e deployment experience was measured with the Deployment Experience Scale (DES);

f unit support during deployment was measured with the Deployment Risk and Resilience

Inventory-1 Section F (DRRI-F); g social support after deployment was measured with the

Deployment Risk and Resilience Inventory-1 Section L (DRRI-L); h early trauma was

measured with the Early Trauma Inventory Self-Report-Short Form (ETISR-SF).

**Table S9:**Parameter estimates for change in anxiety symptoms over time

relative to pre-deployment status with different moderators (n=978).

|  |  |
| --- | --- |
|  | **Interaction time x moderator variable** |
|  | Coefficient (95% CI) | P-value |
| **Age** |  |  |
| Δ 10 yearsa | -0.045 (-0.066 – -0.023) | **<0.0001** |
| **Rankb** |  |  |
| Δ 10 yearsa | -0.970 (-1.378 – 0.563) | **<0.0001** |
| **Previous deployment(s)c** |  |  |
| Δ 10 yearsa |  0.391 (-0.022 – 0.804) |  0.064 |
| **Role during deploymentd** |  |  |
| *Both inside and outside the base* |  |  |
| Δ 10 yearsa |  0.753 (-0.107 – 1.614) |  0.086 |
| *Outside the base* |  |  |
| Δ 10 yearsa |  0.917 (0.428 – 1.407) | **<0.0001** |
| **Deployment experiencee** |  |  |
| Δ 10 yearsa |  0.163 (0.092 – 0.233) | **<0.0001** |
| **Unit supportf** |  |  |
| Δ 10 yearsa |  0.026 (-0.007 – 0.059) |  0.125 |
| **Social supportg** |  |  |
| Δ 10 yearsa | -0.094 (-0.131 – -0.057) | **<0.0001** |
| **Early general traumah** |  |  |
| Δ 10 yearsa | -0.026 (-0.151 – 0.100) |  0.690 |
| **Early physical abuseh** |  |  |
| Δ 10 yearsa | -0.027 (-0.191 – 0.137) |  0.746 |
| **Early emotional abuseh** |  |  |
| Δ 10 yearsa | -0.132 (-0.332 – 0.068) |  0.196 |
| **Early sexual abuseh** |  |  |
| Δ 10 yearsa |  0.105 (-0.261 – 0.471) |  0.573 |

Note: a Δ indicates the difference relative to pre-deployment status, when there was no

significant difference in symptom score relative to pre-deployment at a time-point,

no covariates were reported; 95% CI = 95% Confidence Interval; b the rank parameter

indicates the difference between non-commissioned officer and staff officer ranks versus

private and corporal ranks (reference category); c reference category is the group with one

or more previous deployments; d reference category is the group with a role inside the military

base; e deployment experience was measured with the Deployment Experience Scale (DES);

f unit support during deployment was measured with the Deployment Risk and Resilience

Inventory-1 Section F (DRRI-F); g social support after deployment was measured with the

Deployment Risk and Resilience Inventory-1 Section L (DRRI-L); h early trauma was

measured with the Early Trauma Inventory Self-Report-Short Form (ETISR-SF).

**Table S10:**Parameter estimates for change in depression symptoms over time

relative to pre-deployment status with different moderators (n=978).

|  |  |
| --- | --- |
|  | **Interaction time x moderator variable** |
|  | Coefficient (95% CI) | P-value |
| **Age** |  |  |
| Δ 1 yeara | -0.005 (-0.044 – 0.033) |  0.786 |
| Δ 2 yearsa | -0.004 (-0.043 – 0.035) |  0.849 |
| Δ 10 yearsa | -0.086 (-0.124 – -0.048) | **<0.0001** |
| **Rankb** |  |  |
| Δ 1 yeara | -0.185 (-0.930 – 0.560) |  0.626 |
| Δ 2 yearsa | -0.383 (-1.134 – 0.368) |  0.317 |
| Δ 10 yearsa | -1.547 (-2.271 – -0.822) | **<0.0001** |
| **Previous deployment(s)c** |  |  |
| Δ 1 yeara |  0.183 (-0.580 – 0.947) |  0.638 |
| Δ 2 yearsa | -0.575 (-1.347 – 0.197) |  0.145 |
| Δ 10 yearsa |  1.000 (0.257 – 1.744) |  **0.008** |
| **Role during deploymentd** |  |  |
| *Both inside and outside the base* |  |  |
| Δ 1 yeara |  0.007 (-1.396 – 1.409) |  0.993 |
| Δ 2 yearsa | -0.593 (-2.100 – 0.914) |  0.441 |
| Δ 10 yearsa |  1.041 (-0.428 – 2.510) |  0.165 |
| *Outside the base* |  |  |
| Δ 1 yeara |  0.122 (-0.731 – 0.975)  |  0.779 |
| Δ 2 yearsa | -0.374 (-1.243 – 0.495) |  0.398 |
| Δ 10 yearsa |  1.041 (0.424 – 2.108) |  **0.003** |
| **Deployment experiencee** |  |  |
| Δ 1 yeara |  0.141 (0.010 – 0.272) |  **0.035** |
| Δ 2 yearsa | -0.017 (-0.149 – 0.115) |  0.803 |
| Δ 10 yearsa |  0.211 (0.085 – 0.338) |  **0.001** |
| **Unit supportf** |  |  |
| Δ 1 yeara | -0.034 (-0.087 – 0.019) |  0.207 |
| Δ 2 yearsa | -0.066 (-0.126 – -0.006) |  0.030 |
| Δ 10 yearsa | -0.006 (-0.066 – 0.054) |  0.838 |
| **Social supportg** |  |  |
| Δ 1 yeara | -0.227 (-0.285 – -0.168) | **<0.0001** |
| Δ 2 yearsa | -0.152 (-0.213 – -0.091) | **<0.0001** |
| Δ 10 yearsa | -0.166 (-0.232 – -0.100) | **<0.0001** |
| **Early general traumah** |  |  |
| Δ 1 yeara |  0.096 (-0.131 – 0.323) |  0.408 |
| Δ 2 yearsa |  0.223 (-0.002 – 0.454) |  0.052 |
| Δ 10 yearsa |  0.018 (-0.202 – 0.238) |  0.872 |
| **Early physical abuseh** |  |  |
| Δ 1 yeara |  0.193 (-0.103 – 0.488) |  0.201 |
| Δ 2 yearsa |  0.271 (-0.013 – 0.556) |  0.062 |
| Δ 10 yearsa | -0.022 (-0.311 – 0.267) |  0.882 |
| **Early emotional abuseh** |  |  |
| Δ 1 yeara |  0.230 (-0.133 – 0.592) |  0.214 |
| Δ 2 yearsa |  0.623 (0.270 – 0.976) |  **0.001** |
| Δ 10 yearsa | -0.091 (-0.449 – 0.267) |  0.619 |
| **Early sexual abuseh** |  |  |
| Δ 1 yeara |  1.131 (0.393 – 1.869) |  **0.003** |
| Δ 2 yearsa |  0.360 (-0.261 – 0.981) |  0.256 |
| Δ 10 yearsa |  0.211 (-0.440 – 0.861) |  0.526 |

Note: a Δ indicates the difference relative to pre-deployment status, when there was no

significant difference in symptom score relative to pre-deployment at a time-point, no

covariates were reported; 95% CI = 95% Confidence Interval; b the rank parameter indicates

the difference between non-commissioned officer and staff officer ranks versus private and

corporal ranks (reference category); c reference category is the group with one or more

previous deployments; d reference category is the group with a role inside the military base;

e deployment experience was measured with the Deployment Experience Scale (DES);

f unit support during deployment was measured with the Deployment Risk and Resilience

Inventory-1 Section F (DRRI-F); g social support after deployment was measured with the

Deployment Risk and Resilience Inventory-1 Section L (DRRI-L); h early trauma was

measured with the Early Trauma Inventory Self-Report-Short Form (ETISR-SF).

**Table S11:**Parameter estimates for change in hostility over time relative to

pre-deployment status with different moderators (n=978).

|  |  |
| --- | --- |
|  | **Interaction time x moderator variable** |
|  | Coefficient (95% CI) | P-value |
| **Age** |  |  |
| Δ 1 montha | -0.011 (-0.027 – 0.005) |  0.184 |
| Δ 6 monthsa | -0.005 (-0.022 – 0.011) |  0.529 |
| Δ 1 yeara | -0.014 (-0.031 – 0.004) |  0.135 |
| Δ 2 yearsa | -0.006 (-0.024 – 0.012) |  0.514 |
| Δ 10 yearsa | -0.008 (-0.025 – 0.010) |  0.387 |
| **Rankb** |  |  |
| Δ 1 montha |  0.045 (-0.256 – 0.347) |  0.768 |
| Δ 6 monthsa |  0.070 (-0.242 – 0.381) |  0.661 |
| Δ 1 yeara | -0.227 (-0.571 – 0.117) |  0.195 |
| Δ 2 yearsa | -0.113 (-0.460 – 0.234) |  0.523 |
| Δ 10 yearsa | -0.109 (-0.444 – 0.226) |  0.523 |
| **Previous deployment(s)c** |  |  |
| Δ 1 montha | -0.075 (-0.381 – 0.231) |  0.630 |
| Δ 6 monthsa |  0.182 (-0.135 – 0.499) |  0.260 |
| Δ 1 yeara |  0.246 (-0.107 – 0.599) |  0.171 |
| Δ 2 yearsa | -0.004 (-0.362 – 0.354) |  0.983 |
| Δ 10 yearsa | -0.252 (-0.596 – 0.093) |  0.152 |
| **Role during deploymentd** |  |  |
| *Both inside and outside the base* |  |  |
| Δ 1 montha |  0.146 (-0.470 – 0.762) |  0.643 |
| Δ 6 monthsa |  0.276 (-0.347 – 0.899) |  0.385 |
| Δ 1 yeara | -0.115 (-0.787 – 0.557) |  0.737 |
| Δ 2 yearsa |  0.416 (-0.309 – 1.142) |  0.260 |
| Δ 10 yearsa |  0.372 (-0.341 – 1.084) |  0.307 |
| *Outside the base* |  |  |
| Δ 1 montha |  0.052 (-0.317 – 0.421)  |  0.783 |
| Δ 6 monthsa |  0.233 (-0.141 – 0.607) |  0.222 |
| Δ 1 yeara |  0.249 (-0.160 – 0.658) |  0.233 |
| Δ 2 yearsa |  0.119 (-0.298 – 0.536) |  0.576 |
| Δ 10 yearsa |  0.372 (-0.111 – 0.697) |  0.155 |
| **Deployment experiencee** |  |  |
| Δ 1 montha |  0.090 (0.041 – 0.140) | **<0.001** |
| Δ 6 monthsa |  0.083 (0.029 – 0.136) |  **0.002** |
| Δ 1 yeara |  0.076 (0.015 – 0.138) |  **0.015** |
| Δ 2 yearsa | -0.037 (-0.099 – 0.025) |  0.237 |
| Δ 10 yearsa |  0.041 (-0.019 – 0.100) |  0.179 |
| **Unit supportf** |  |  |
| Δ 1 montha | -0.001 (-0.025 – 0.025) |  0.990 |
| Δ 6 monthsa | -0.008 (-0.033 – 0.018)  |  0.554 |
| Δ 1 yeara | -0.004 (-0.029 – 0.021) |  0.768 |
| Δ 2 yearsa | -0.001 (-0.028 – 0.027) |  0.969 |
| Δ 10 yearsa |  0.015 (-0.013 – 0.043) |  0.308 |
| **Social supportg** |  |  |
| Δ 1 montha | -0.053 (-0.080 – -0.025) | **<0.001** |
| Δ 6 monthsa | -0.069 (-0.097 – -0.041) | **<0.0001** |
| Δ 1 yeara | -0.090 (-0.118 – -0.062) | **<0.0001** |
| Δ 2 yearsa | -0.043 (-0.073 – -0.014) |  **0.0040** |
| Δ 10 yearsa | -0.050 (-0.082 – -0.019) |  **0.002** |
| **Early general traumah** |  |  |
| Δ 1 montha |  0.009 (-0.081 – 0.100) |  0.842 |
| Δ 6 monthsa |  0.162 (0.065 – 0.258) |  0.100 |
| Δ 1 yeara |  0.055 (-0.050 – 0.160) |  0.305 |
| Δ 2 yearsa |  0.050 (-0.056 – 0.155) |  0.359 |
| Δ 10 yearsa |  0.072 (-0.031 – 0.174) |  0.170 |
| **Early physical abuseh** |  |  |
| Δ 1 montha | -0.030 (-0.144 – 0.085) |  0.613 |
| Δ 6 monthsa | -0.034 (-0.155 – 0.087) |  0.578 |
| Δ 1 yeara | -0.010 (-0.147 – 0.127) |  0.889 |
| Δ 2 yearsa |  0.041 (-0.091 – 0.173) |  0.540 |
| Δ 10 yearsa | -0.124 (-0.258 – 0.011) |  0.072 |
| **Early emotional abuseh** |  |  |
| Δ 1 montha |  0.204 (0.059 – 0.349) |  **0.006** |
| Δ 6 monthsa |  0.061 (-0.092 – 0.214) |  0.432 |
| Δ 1 yeara | -0.011 (-0.178 – 0.156) |  0.896 |
| Δ 2 yearsa | -0.015 (-0.178 – 0.148) |  0.858 |
| Δ 10 yearsa | -0.134 (-0.299 – 0.030) |  0.110 |
| **Early sexual abuseh** |  |  |
| Δ 1 montha |  0.230 (-0.044 – 0.504) |  0.100 |
| Δ 6 monthsa |  0.169 (-0.106 – 0.444) |  0.227 |
| Δ 1 yeara |  0.162 (-0.147 – 0.471) |  0.304 |
| Δ 2 yearsa |  0.153 (-0.135 – 0.441) |  0.297 |
| Δ 10 yearsa |  0.004 (-0.297 – 0.306) |  0.978 |

Note: a Δ indicates the difference relative to pre-deployment status; 95% CI = 95%

Confidence Interval; b the rank parameter indicates the difference between
non-commissioned officer and staff officer ranks versus private and corporal ranks
(reference category); c reference category is the group with one or more previous

deployments; d reference category is the group with a role inside the military base;

e deployment experience was measured with the Deployment Experience Scale (DES);

f unit support during deployment was measured with the Deployment Risk and Resilience

Inventory-1 Section F (DRRI-F); g social support after deployment was measured with the

Deployment Risk and Resilience Inventory-1 Section L (DRRI-L); h early trauma was

measured with the Early Trauma Inventory Self-Report-Short Form (ETISR-SF).



**Figure S1.** Reported anxiety (A), depression (B), and hostility (C) symptoms over time in Dutch ISAF veterans including a five-year follow-up measurement. Prevalence rates pre-deployment, and one month, six months, one year, two years, and ten years post-deployment were based on the Symptom Checklist (SCL-90-R); prevalence rates at five years post-deployment were based on the Brief Symptom Inventory (BSI). Cut-off values for all subscales were based on the 95th percentile scores of a sample from the general population as reported in the respective questionnaire manual (SCL: anxiety: ≥22; depression: ≥36; hostility: ≥11; BSI: anxiety: ≥1.33; depression: ≥1.67; hostility: ≥1.20). \*Five year measurement was administered as an online questionnaire instead of a paper-and-pencil questionnaire.