

The effect of high-intensity stress on learning.

No registrations found.

Ethical review	Not applicable
Status	Recruiting
Health condition type	-
Study type	Interventional

Summary

ID

NL-OMON20516

Source

NTR

Brief title

LSSL

Health condition

Effects of high-intensity stress on cognitive performance

Sponsors and support

Primary sponsor: Open University, The Netherlands

Source(s) of monetary or material Support: Open University, The Netherlands

Intervention

Outcome measures

Primary outcome

Task performance (visuo-spatial learning);

- Digit Span Test

- Rey-Osterrieth Complex Figure

- Modified Taylor Complex Figure

Secondary outcome

Stress questionnaire and psychophysiological stress measures (cortisol and cardio-respiratory)

Study description

Background summary

Experimental research on effects of acute high-intensity stress in real-life conditions is scarce. While running a specially designed selection procedure, Belgian Special Forces candidates (N = 27) were randomly assigned to a no-stress and a stress group. In a between-subjects field experiment 14 participants were exposed to a brusque and high-intensive mock prison of war (POW) exercise, while others performed a no-stress filler task. Subsequently, and in identical conditions for both no-stress and stress groups, cognitive performance was measured applying three standardized neuropsychological tests: the Digit Span test (WAIS III), a 21 pictures free recall test, and the Rey-Osterrieth Complex Figure test. Stress levels were assessed by glucocorticoids (cortisol) measurement during the cognitive performance tests, and subjectively by the NASA Talk Load Index (TLX).

Study objective

High-intensity stress reduces cognitive performance (visuo-spatial learning) both for immediate and delayed recall.

Study design

Data acquisition on 17 and 18 November 2008

Intervention

Two intervention conditions:

1. No-stress;
2. Stress.

Interventions: Digit Span test, 20 Pictures Free Recall test en Rey-Osterrieth Complex Figure test.

Contacts

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Eligibility criteria

Inclusion criteria

1. Special Forces candidate (volunteer)

Exclusion criteria

1. Proper request or intervention by follow-up psychologist.

Study design

Design

Study type:	Interventional
Intervention model:	Crossover
Allocation:	Randomized controlled trial
Masking:	Single blinded (masking used)
Control:	N/A , unknown

Recruitment

NL
Recruitment status: Recruiting
Start date (anticipated): 17-11-2008
Enrollment: 40
Type: Anticipated

Ethics review

Not applicable
Application type: Not applicable

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register	ID
NTR-new	NL1457
NTR-old	NTR1518
Other	:
ISRCTN	ISRCTN wordt niet meer aangevraagd

Study results

Summary results

N/A