Mental Health and the UK Armed Forces



Professor Neil Greenberg Academic Centre for Defence Mental Health King's College London





Who am I

- Defence Professor of Mental Health
- Royal Navy Surgeon Captain
- Consultant Psychiatrist
- Varied military career ships, submarines, Royal Marines









Aims of the talk

- To examine the psychological health of the UK Armed Forces
- To outline how the UK Armed Forces aim to support the psychological health of their personnel
- Challenge some of the myths surrounding mental health problems in service personnel









Tsunami of post-traumatic stress haunts our heroes

guardian.co.uk

Revealed: the hidden army in UK

More veterans in justice system than soldiers serving in prisons

Afghanistan - study

NEWS JERSEY

say MOD



Η

ACADEMIC CENTRE FOR DE

Holidays for Heroes in Jersey says PTSD cases rising

MailOnline

Afghanistan are 10 times more

likely to suffer mental illness,

British troops back from

guardian.co.uk, Thursday 24 September 2009 20.52 BST Alan Travis, home affairs editor

theguardian

Former soldier wins MoD payout over post-traumatic stress disorder

Bomb disposal expert claimed failure to properly diagnose PTSD left him more vulnerable to future stressful events

Liam Fox: We must defuse timebomb of veterans' mental health

Military Life is Different









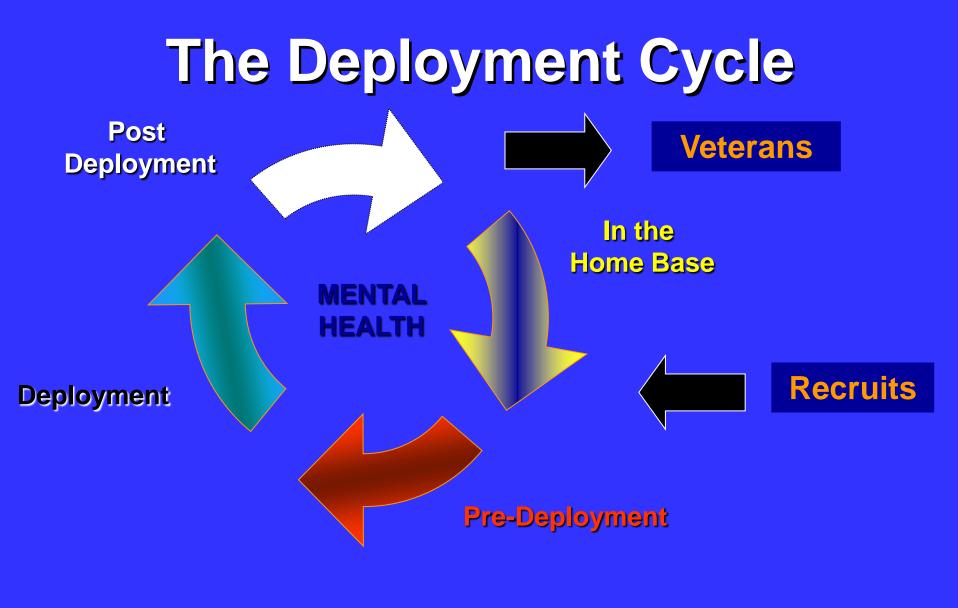






BROKE? GET SOME BAR WORK.

HAVE YOU GOT THE STRENGTH OF MIND? ROYAL MARINES COMMANDO







The UK Armed Forces

- Who are they as of 31 Mar 2012

 Full time trained strength 170,910
 Intake 14,490 in the last 12 months
 Outflow 20,700 in the 12 months
- RN ~ 35,000; Army 101,000; RAF; ~ 40,000
- Varied backgrounds; ~10% female





Defence Mental Health Services (Non-deployed) • The psychological welfare of troops is primarily

 The psychological welfare of troops is primarily a 'Chain of Command' responsibility

Informal support (peers, welfare, padre)

Primary Care (GPs)

•Departments of Community Mental Health (DCMH)



Hospital Care (ISP)





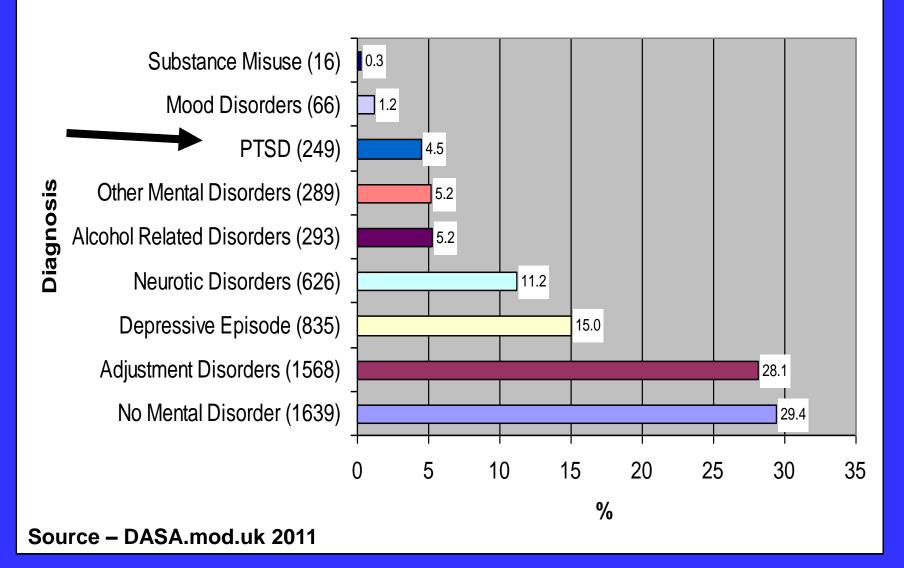
Mental Health Support – DCMH 2010

- During 2010 the DCMHs received
 - -5,581 referrals (~2% of the AF population) of which
 - -3,942 new cases of mental disorder were identified
 - -So, approximately 1/3 had no diagnosis
- Referral was significantly more likely for (rates per 1000)
 - -Army (21.7) and RAF (21.8) personnel than RN(11.8)/RM(7.1)
 - -Females (43.1) than males (17.2)
 - -Other ranks (21.4) than Officers (10.5)
 - -Had been deployed to Iraq/Afghan (20.4) than not (18.3)





DCMH Referrals - Diagnostic Categories 2010







Mental Health Hospitalisations

 Compared to the Service population, those admitted to hospital are:

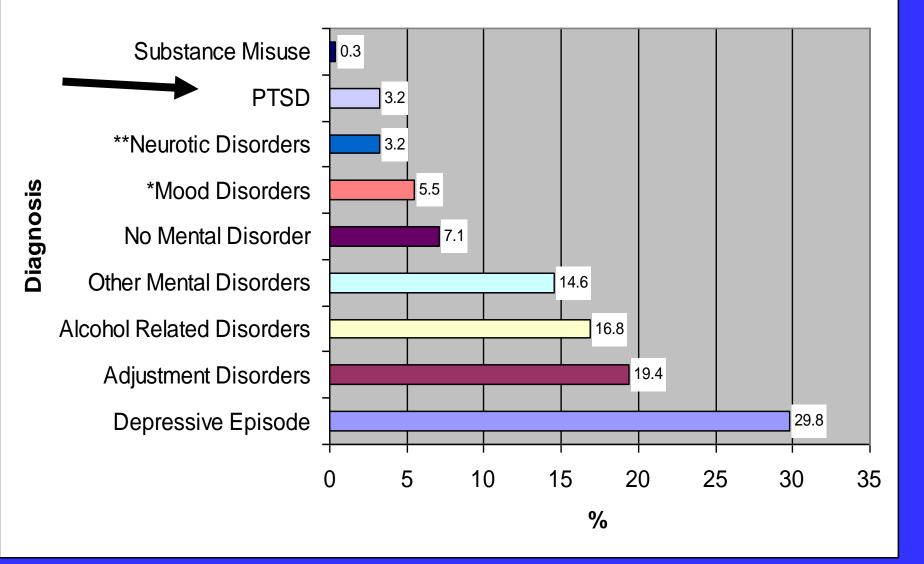
more likely be junior
to be under 25 years of age
have a combat role

- 74% were prematurely discharged
- 73% in the first year following hospitalisation





Mental Health Support – Hospitals 2009



*Other than Depressive Episode ** Other than Adjustment Disorders and PTSD

Κ



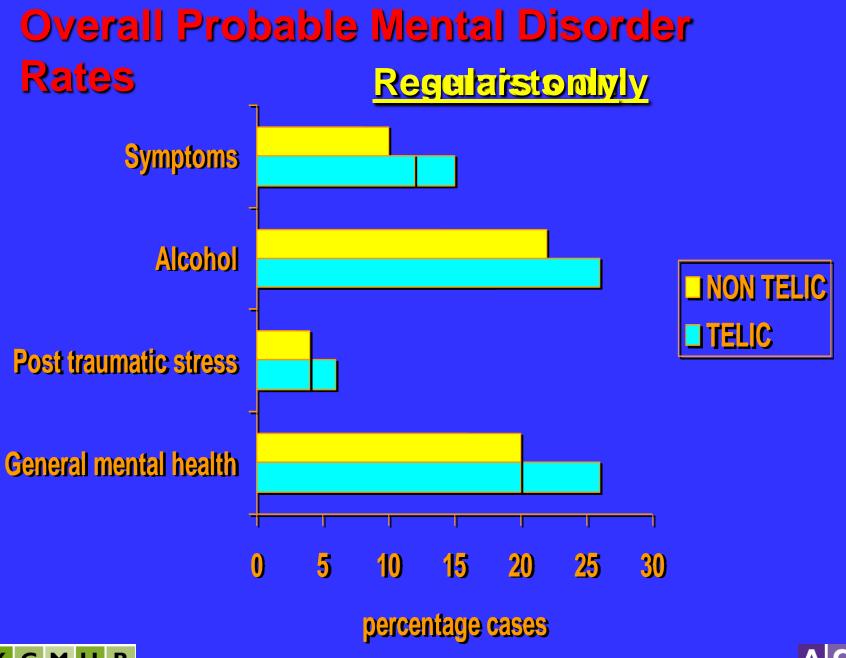


The King's Cohort Study

- Large study 20,000 Personnel (~60% response rate)
- Case definition: OP TELIC 1 vs. everyone else
- Tri Service (proportional to TELIC orbat)
- Serving and non serving excluding SF
- 2:1 over sample of reservists
- 5 Year follow up, inc replenishment & HERRICK









So, What Has Happened Since Then? *5 Year Follow Up

(9990 subjects Including a Herrick Sample)







Overall prevalence of outcomes (at 5 years)

Outcome	Overall, % (95% confidence interval)	
*Probable PTSD	4.0% (3.5%-4.5%)	
**Common Mental Disorder	<i>19.7%</i> (18.7%-20.6%)	
**Alcohol Misuse	<i>13.0%</i> (12.2%-13.8%)	





Role of combat

Outcome	Combat (25.0%)	Combat support (12.0%)	Combat service support (63.1%)
Probable PTSD	6.9%	2.1%	3.6%
Common mental disorders	20.6%	18.3%	19.7%
Alcohol misuse	22.5%	10.8%	14.2%





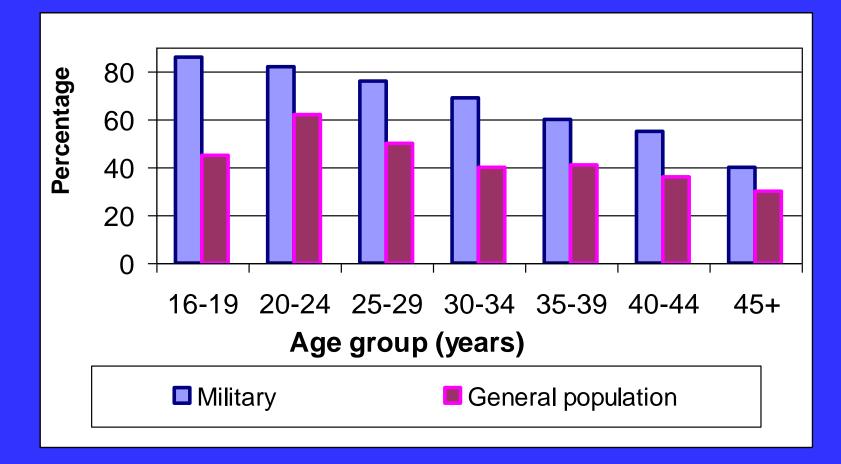
Alcohol (mis)use in the military







UK Armed Forces vs. the general population: Males (67% vs. 38%)

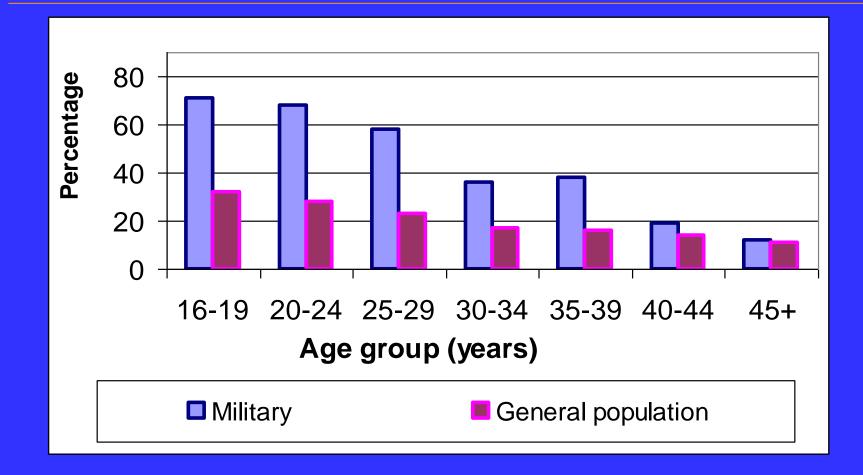




Fear et al, Addictions 2007



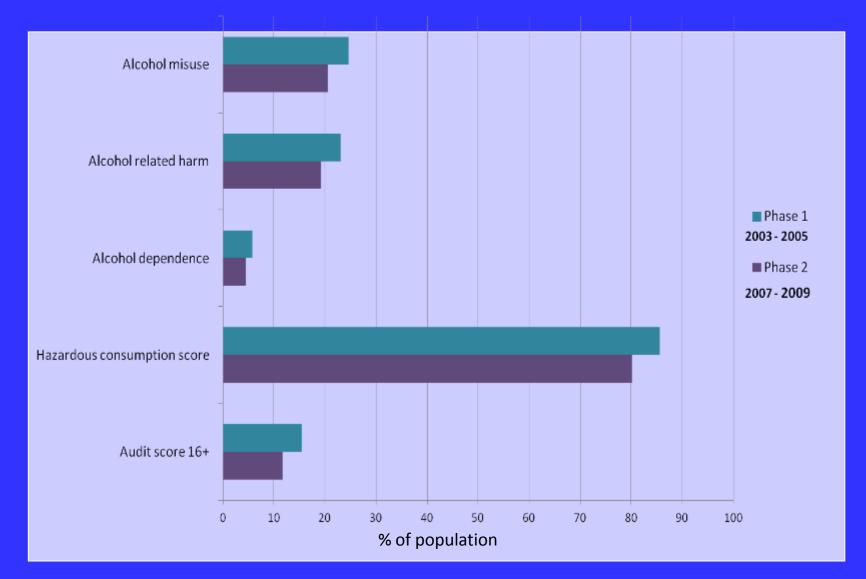
UK Armed Forces vs. the general population: Females (49% vs. 16%)



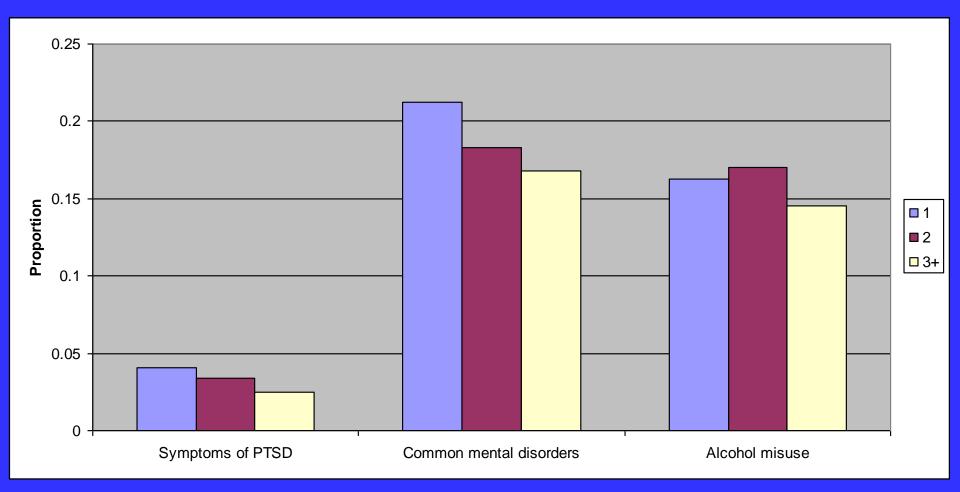




The effects of time – Changes between study phases



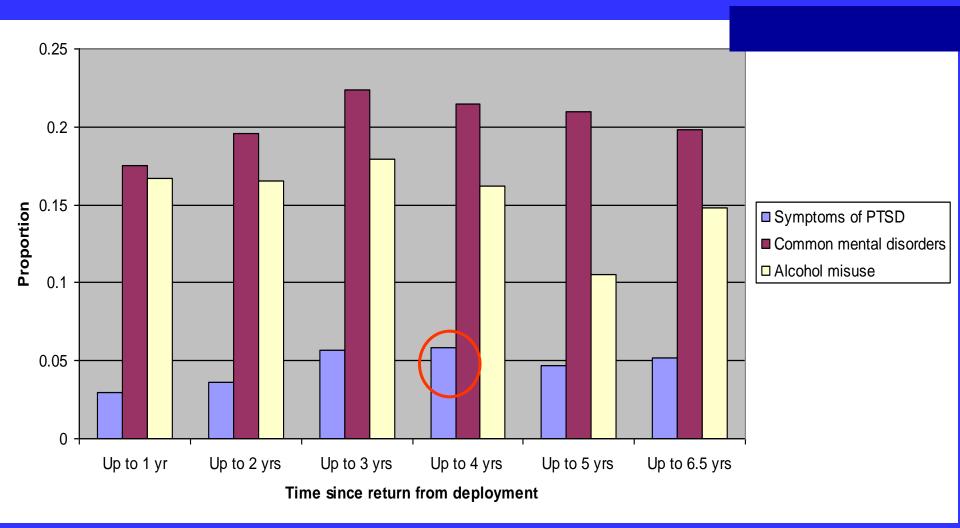
Number of deployments – currently serving Army regulars







What Happens to Probable PTSD Post-deployment over time?







In Summary....

- The overall mental health of UKAF remained stable over 5 years
- Alcohol misuse continues to be a bigger problem than probable PTSD
- Deployment still associated with probable PTSD in combat troops (and reserves) and alcohol misuse in regulars
- Still no association with number of deployments
- Weak relationship between time since return from deployment and probable PTSD





Deployment Mental Health

Deployment

Operational Mental Health Casualties



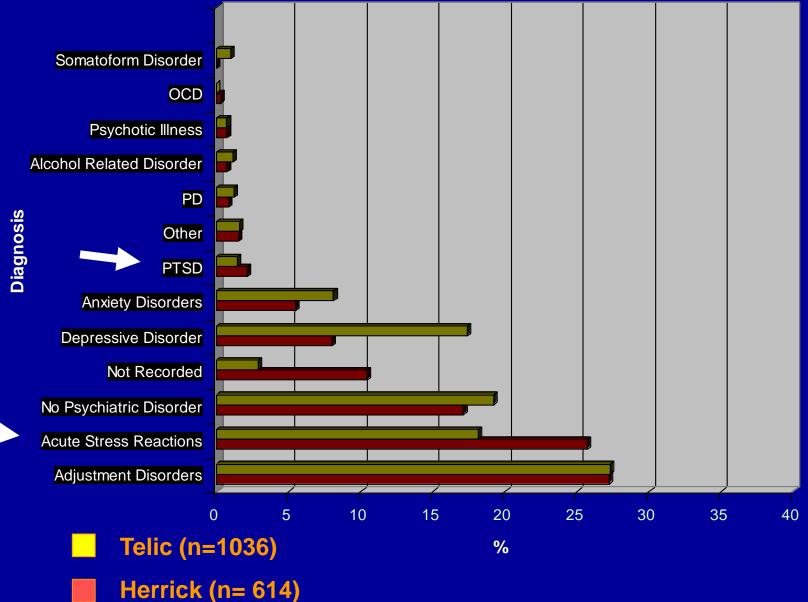
 All major UK AF deployments include mental health professional in the team

 Uniformed Psychiatrists and Community MH nurses make up the Field Mental Health Teams (FMHT)











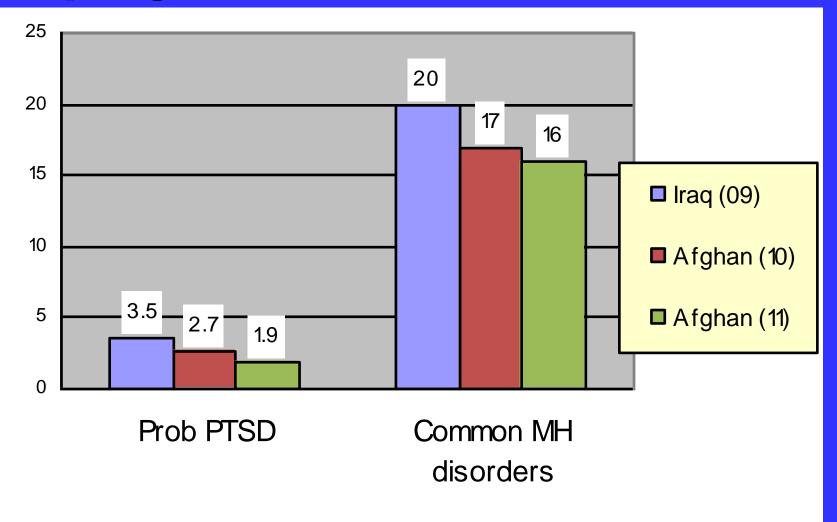
The Operational Mental Health Needs Evaluation (OMHNE)







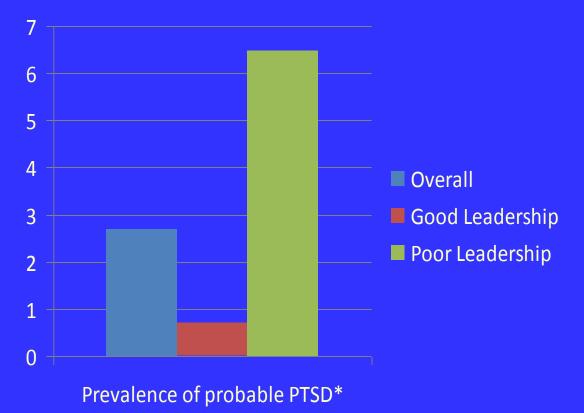
Deployed Mental Health Status







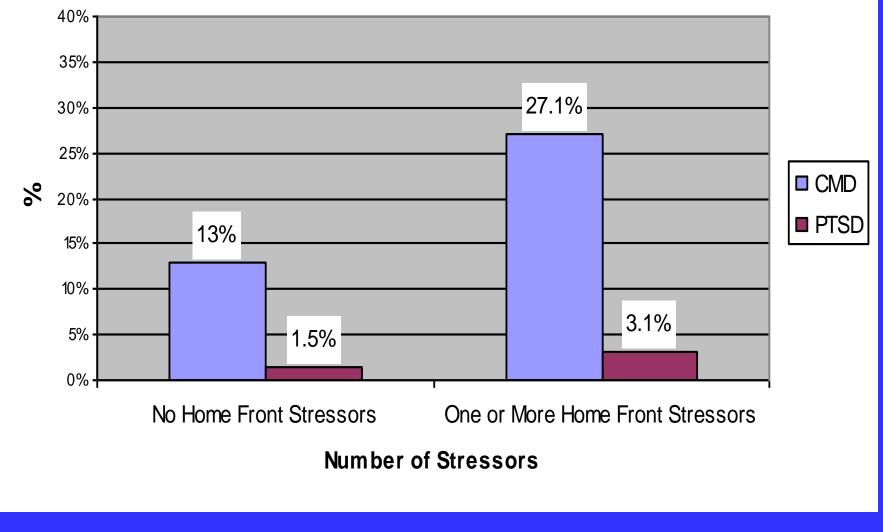
Leadership and Probable PTSD (Afghan 2010)







Home Front Stressors & Mental Health

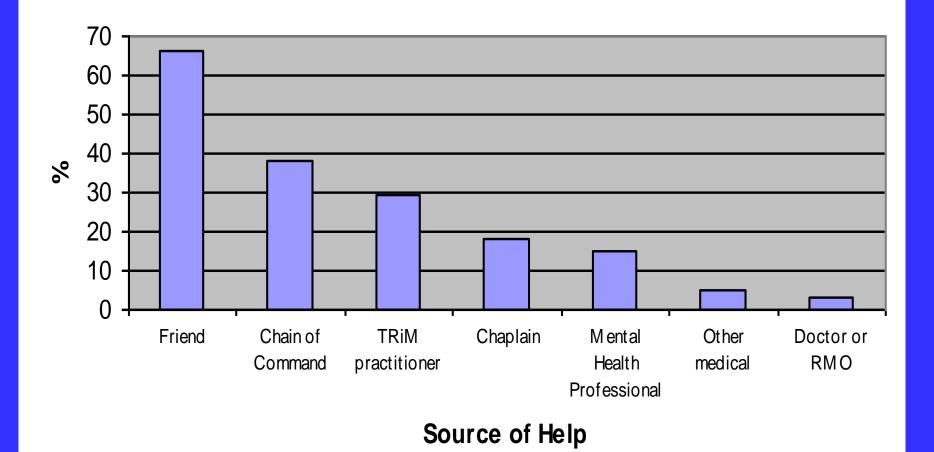




PTSD x2=3.36, df=1, p=0.067



Where do deployed personnel get support/help



%s may not add up to 100% as some reported more than one source of help





Trauma Risk Management (TRiM)







Trauma Risk Management

- TRiM is a form of psychological first aid
- Reinforces good personnel management
- Ensures that the unit can monitor those exposed to traumatic incidents
- Problem solving, mentoring & referral
- Not psychological debriefing/CISD





Trauma Risk Management

- It formed 14 (+) years ago
- Began in Royal Marines units, now Tri-Service
- They range in rank from Marine to Brigadier
- Also used by BBC, FCO, St John and London Ambulance Services and some UK Police Forces





RIFLE DRILLS

LOAD HOURT MEANON HITO UNLOADING SAY CONTROL SAFTY CATORIA AT 19 AT 19 AT 19 AT 100 MILLION TO SAF MILLION ANY LARSE CORRECT! ANY LARSE CORRECT! MALENNE CERTAIN IT IS SECURE MALENNE CERTAIN IT IS SECURE

 1 POINT WARPON WITO MALDADING NATY THOMS SATURY SATURY SATURY THOMS SATURY SATURY SATURY THOMS SATURY SATURY SATURY NU SATURY SATURY SATURY THOMS SATURY SATURY THOMS SATURY SATURY THOMS SATURY

UNLOAD

CLARK OF ROUNDL AGAIN OFICE THE BOY' CHARGES AND TACK OF THE BOY' CHARGES AND TACK OF AND ALL FROM STATES BOUNDARY AND OFFICE AND TACK LATER OF AND OFFICE AND OFFICE TRUDAY

P. BEPLACE SAMPTY CATCH 10: "2". CLOSE BUILT COVER AND CARES, INSMITS

UNLOAD

PISTOL DRILLS

UM

LOAD

POINT WIAPON INTO

 POINT WEAPON INTO LOADING MAT
 REHOVE MAGAZINE
 CONVERTING

What Peer Practitioners are not!

- -Counsellors
- -Therapists
- Pseudo-psychologists
- -Group Huggers
- -Scented Candle users







Peer-group risk assessment: management strategy for hie organizations

N. Jones¹, P. Roberts² and N. Greenberg³

Journal of Traumatic Stress, Vol

Background	Organizations have moral an	
	their workforce following ex	¹ Assoc
	workplace. Additionally, it ma	
	to the effects of psychological	
	of psychological intervention	Abst
20, No. 4, August 2007, pp. 1–11 (© 2007)	events hut recent evidencentr	cience'
20, 190, 4, August 2007, pp. 1-11 (© 2007)		

Stigma and the Military: Evaluation of a PTSD Psychoeducational Program

> Matthew Gould Department of Clinical Psychology, Royal Holloway, University of London, Egham, Surre TW20 0EX 11K Neil Greenberg King's Centre for Military Health Research, Weston Education Centre, Cutcombe Road, London, SE5 9RJ, UK Jacquie Hetherton

Department of Clinical Psychology, Royal Holloway, University of London, Egham, Surrey TW20 0EX, UK

Trauma risk management (TRiM) is an intensive postmaurnatic stress disorder (PTSD) psychoeduca tional management strategy based on peer-group risk assessment developed by the UK Royal Navy (RN). TRiM seeks to modify attitudes about PTSD, stress, and help-seeking and trains military personnel to identify at-risk individuals and refer them for early intervention. This quasiesperimental study found that TRiM training significantly improved attitudes about PTSD, stress, and help-seeking from TRiMtrained personnel. There was a nonsignificant effect on attitudes to seeking help from normal military support networks and on general health. Within both the military and civilian populations, stigma is a serious issue preventing help-seeking and reducing quality of life. The results suggest that TRIM is a

Occupational Medicine Advance Access published April 5, 2011

Occupational Medicine doi:10.1093/occmed/kqr022

The acceptability of 'Trauma Risk Management' within the UK Armed Forces

N. Greenberg¹, V. Langston², A. C. Iversen² and S. Wessely²

¹Academic Centre for Defence Mental Health, Weston Education Centre, Cutcombe Road, London SE5 9RJ, UK, ²King's Centre for Military Health Research, Weston Education Centre, Cutcombe Road, London SE5 9RJ, UK.

Correspondence to: N. Greenberg, Academic Centre for Defence Mental Health, Weston Education Centre, Cutcombe Road, London SE5 9RJ, UK. Tel: +44 (0)20 7848 5351; fax: +44 (0)207 848 5397; e-mail: sososanta@aol.com

Background	Trauma-support programmes may benefit employees of organizations that routinely expose their staff to traumatic events. However, in order for such programmes to be effective, staff need to find them acceptable.
Aims	To investigate whether Trauma Risk Management (TRiM), an example of such a programme, is ac-

Aims	To investigate	whether "	Frauma	Risk l	Management	(TRiM), an	example of	such a	programme,	is ac

ORIGINAL PAPERS

TRAUMA RISK MANAGEMENT (TRIM) IN THE UK ARMED FORCES

N Greenberg¹, V Langston², N Jones³

ociation

ostract

Management (TRiM) is a novel system of post incident management which intend to allow commanders to opriate support to their subordinates in the aftermath of traumatic events operational tempo being experienced by the majority of the UK Armed F as been in use in both Iraq and Afghanistan. Although TRiM originated f y used in both the Royal Navy and Army; there are also plans to introduc r Force such as for the RAF Regiment. This paper aims to explore the bas

TRiM publications

Psychological risk assessment following the terrorist attacks in New York in 2001

NEIL GREENBERG¹, C. DOW², & DUNCAN BLAND¹

¹King's Centre for Military Health Research, Weston Education Centre, London, and ²Health and Welfare Department, Foreign and Commonwealth Office, London, UK

Abstract

Background: Trauma Risk Management (TRiM) is a post-traumatic psychological management model utilizing peer support/assessment, developed by the UK military. Following September 11th, 2001, the UK Foreign & Commonwealth Office (FCO) deployed TRiM personnel to New York. Aims: This report describes the use of TRiM by the FCO in New York and examines the correlation validity of the TRiM assessments.

Method: Assessments were conducted among personnel shortly after the event and again after a

Journal of Traumatic Stress, Vol. 23, No. 4, August 2010, pp. 430-436 (© 2010)

A Cluster Randomized Controlled Trial to Determin the Efficacy of Trauma Risk Management (TRiM) in Military Population

Neil Greenberg, Victoria Langston, Brian Everitt, Amy Iversen, Nicola T. Fear, Norman Jones, and Simon Wessely King's College London and Institute of Psychiatry, London

Trauma Risk Management is a peer-support program that aims to promote help-seeking in the aftermath of traumatic events. Prior to its implementation, the British military conducted a randomized controlled trial of Trauma Risk Management against standard care in 12 warships; 6 were randomized to use Trauma Risk Management after collecting baseline measurements. Follow up after 12–18 months found no significant change in psychological health or stigma scores in either group; however, the studied vessels only encountered low numbers of critical incidents. Additionally, measurements of organizational functioning were modestly better in the Trauma Risk Management ships. The authors conclude that within organizations using Trauma Risk Management may be beneficial and may, in time, lead to a valuable cultural shift.

Does trauma risk management reduce psychological distress in deployed troops?

W. Frappell-Cooke¹, M. Gulina², K. Green³, J. Hacker Hughes¹ and N. Greenberg⁴

¹Defence Clinical Psychology Service, HQ Surgeon General, DMS Whittington, Lichfield, Staffordshire WS14 9PY, UK, ²Department of Psychology, City University, Northampton Square, London EC1V 0HB, UK, ³Navy Command Headquarters, MP 3-1, Leach Building, Whale Island, Portsmouth PO2 8BY, UK, ⁴Academic Centre for Defence Mental Health, London, UK,

Correspondence to: N. Greenberg, Academic Centre for Defence Mental Health, Academic Department of Psychological Medicine (IOP), Weston Education Centre, Cutcombe Road, London SE5 9RJ, UK. Tel: +44 (0)207 848 5351; fax: +44 (0)207 848 5397; e-mail: wfcpsych@talktalk.net

Background Military personnel exposed to potentially traumatic events whilst deployed on operational duties may develop psychological problems. The Royal Marines have made extensive use of Trauma Risk Management (TRiM), a peer-support system that operates through practitioners embedded within operational units. TRiM aims to promote recognition of psychological illness and to facilitate social support.

In summary the TRiM research says....

- TRiM may help spot people who are in need
- TRiM may help mobile social support
- TRiM may help with occupational functioning
- TRiM use appears acceptable
- TRiM may help with stigma/barriers to care













Third Location Decompression

- Troops who 'fight together should unwind together'
- First stage of POSM
- Takes place in Cyprus, 36 hours long, social, informal and includes mental health briefings, homecoming briefings and risky driving briefings

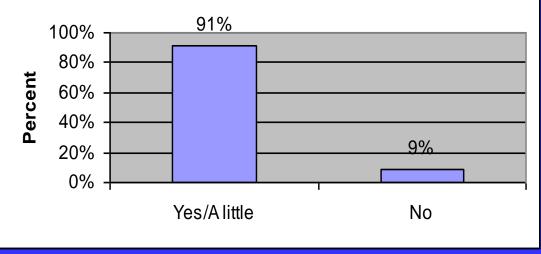




Post Deployment - Decompression

- Prior to attending DcN ~80% did not want to go or were ambivalent
- Having been through DcN...

Was Decompression Useful



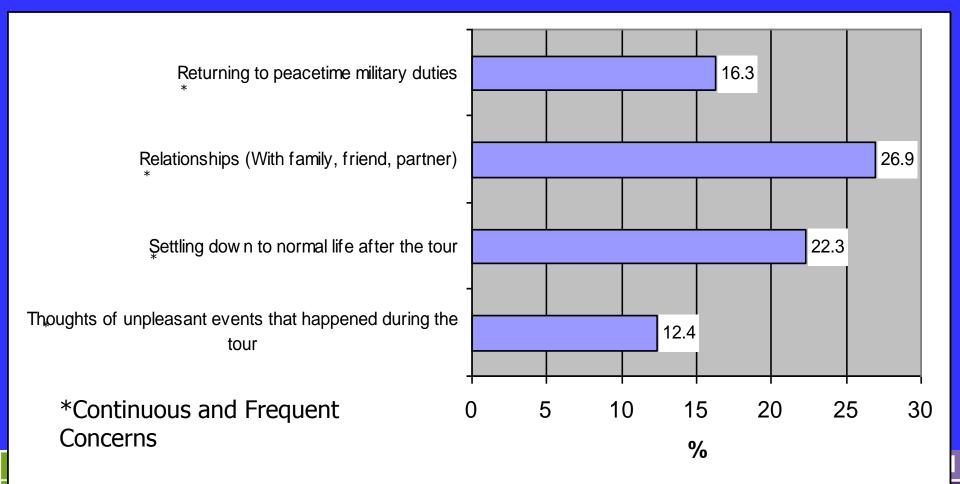






Homecoming Adjustment Scale

Personnel were more concerned about relationships issues than 'traumatic situations'



Decompression 'research'

- Many personnel do not want to go to DcN, having been they like it and think it will be helpful
- Less helpful for
 - those on 2nd (or more) tours in last five years
 - Seniors ranks
- More helpful for
 - Those who have high combat exposure
 - Those with more adjustment concerns
- However current evidence is not based upon 'robust clinical trials' (note: US interest in DcN might lead to them running a trial)





UK Battlemind RCT Trial

Deployment BATTLEMIND

Buddy Buddy System Accountability Targeted Aggression Tactical Awareness Limited Alcohol Emotional Control Mission Operational Security Individual Responsibility Non-Defensive (Combat) Driving Discipline and Ordering

Home Front Problems

Withdrawal Controlling at home General Aggression Being on Edge Lagered up Detachment & Numbness Secretiveness Guilt Unnecessary Risk-taking Conflict with Friends &Family





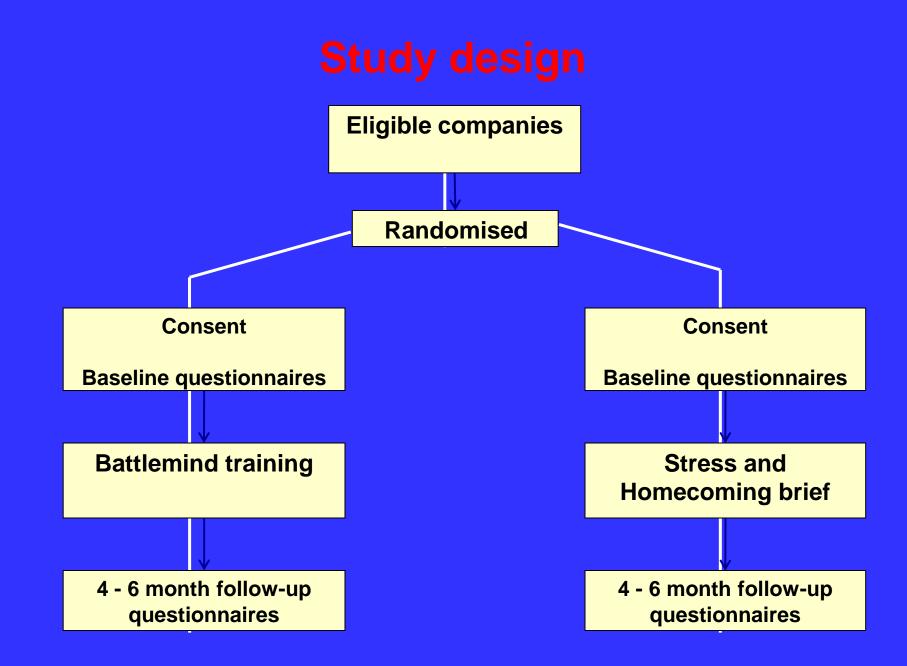








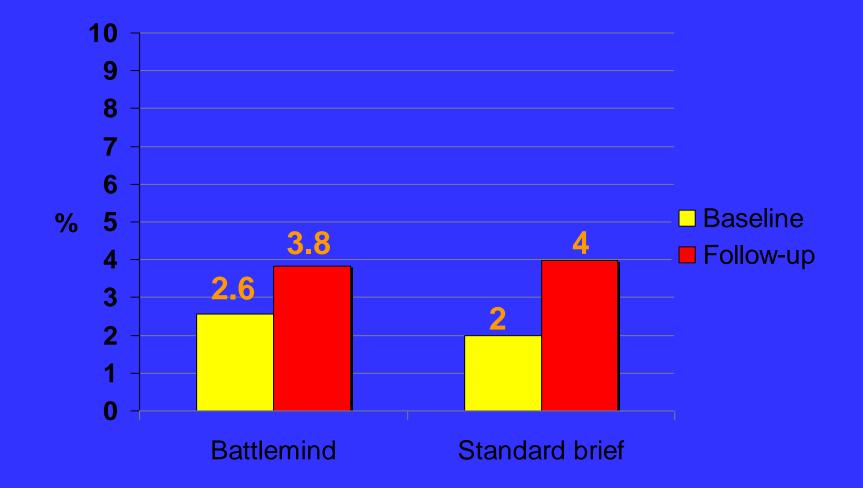








Results: Probable PTSD – 'cases' (n=~1600)

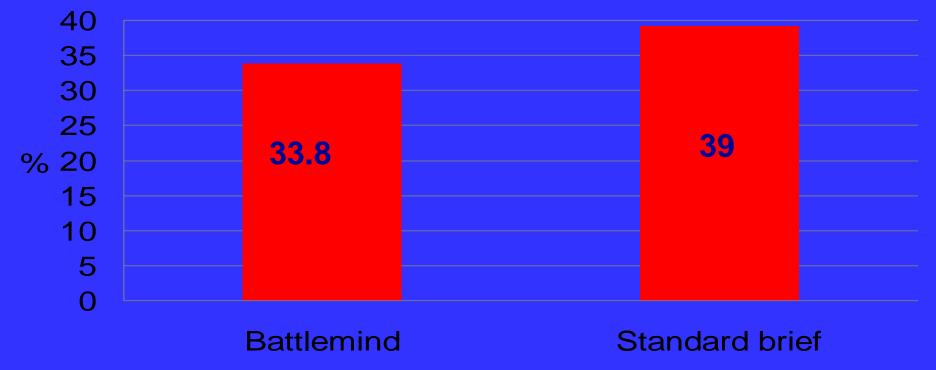






Results: Alcohol Binge drinking

(12+ units) at least weekly at follow-up

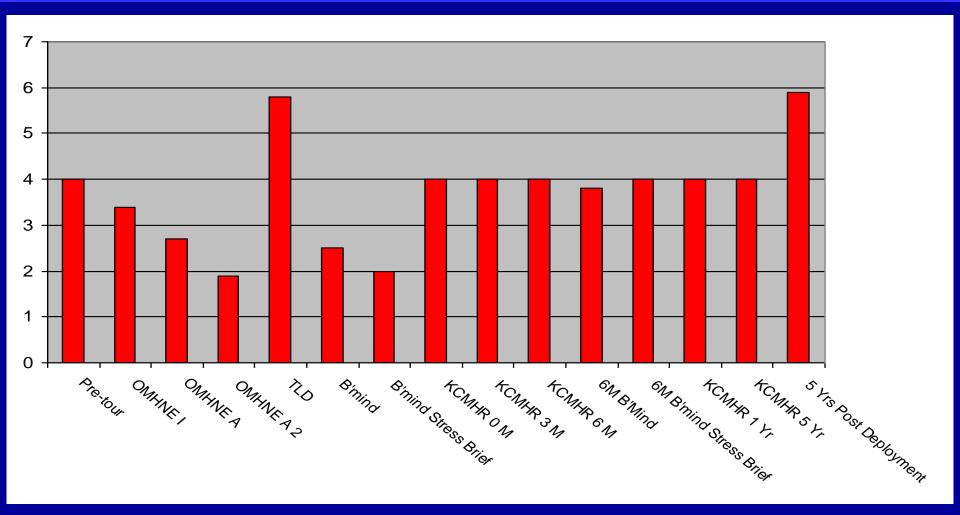


Fully adjusted OR 0.73 (0.58 - 0.92) p= 0.006





What Happens Probable PTSD Rates Over Time – in relation to deployment?







After Service





Meeting the Healthcare Needs of Veterans

COMBAT STRESS

A guide for general practitioners





Veterans

Reserves Mental Health Programme

Veterans care





Reserves Mental Health Programme (RMHP) Treatment Outcomes

- Accepts demobilised reservists deployed since 2003
- Referrals from GP and Self-referrals
- Based in RTMC Chilwell
- Nurse led assessments
- Supported by Consultant Psychiatrists & other MH Staff in DCMHs (co-ordinated treatment effort)





RMHP IIIness Categories

Diagnosis	n (%)	No Tx	Тх
Depressive Episode	33 (37)	4 (19)	29 (43)
Adjustment Disorder	25 (28)	7 (33)	18 (27)
Probable PTSD	12 (14)	2 (10)	10 (15)
No Psychiatric Problem Diagnosed	10 (8)	6 (28)	1 (2)
Anxiety Disorder	3 (3)	1 (5)	2 (3)
Mixed Anxiety and Depression	2 (2)	1 (5)	1 (2)
Alcohol Related Disorder	1 (1)	0	1 (2)
Personality Change after Catastrophic Incident	1 (1)	0	1 (2)
Psychotic Episode	1 (1)	0	1 (2)
Post Concussion Syndrome	1 (1)	0	1 (2)
Total	89	21	67





RMHP Outcomes

Occupational Outcome	n (%)	% of Treatment Completers (n=47)
Fully Fit	36 (66)	77%
Fit With Some Limitations	4 (7)	9%
Medical Discharge	7 (16)	15%
Temporary Medical Category	8 (15)	

Most get better

•Not used very much (in spite of advertising)





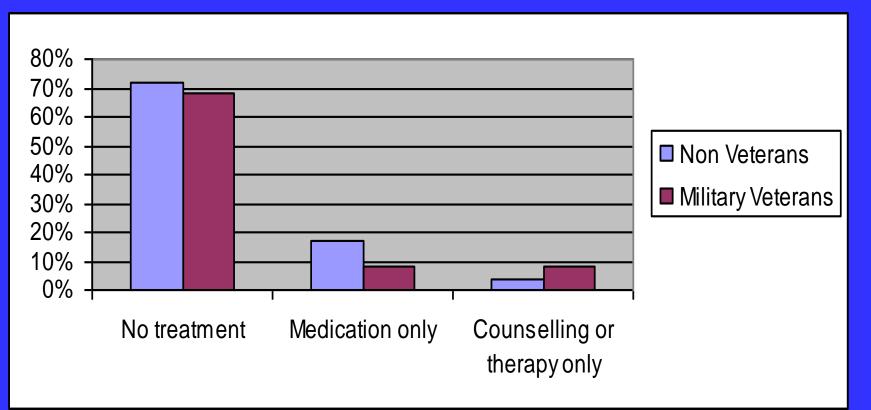
Adult Psychiatric Morbidity Survey (APMS)

- 257 post national service Veterans aged 16-64 years & 504 age and sex matched non-Veterans.
- Male Veterans more childhood adversity & major trauma in adulthood
- Females Veterans more suicidal thoughts
- Early service leavers (<4 years service) more heavy drinking suicidal thoughts self-harm compared to longer serving Veterans
- Eut No association between any measure of mental health except violent behaviour and veteran status in males therefore Veterans are no more ill





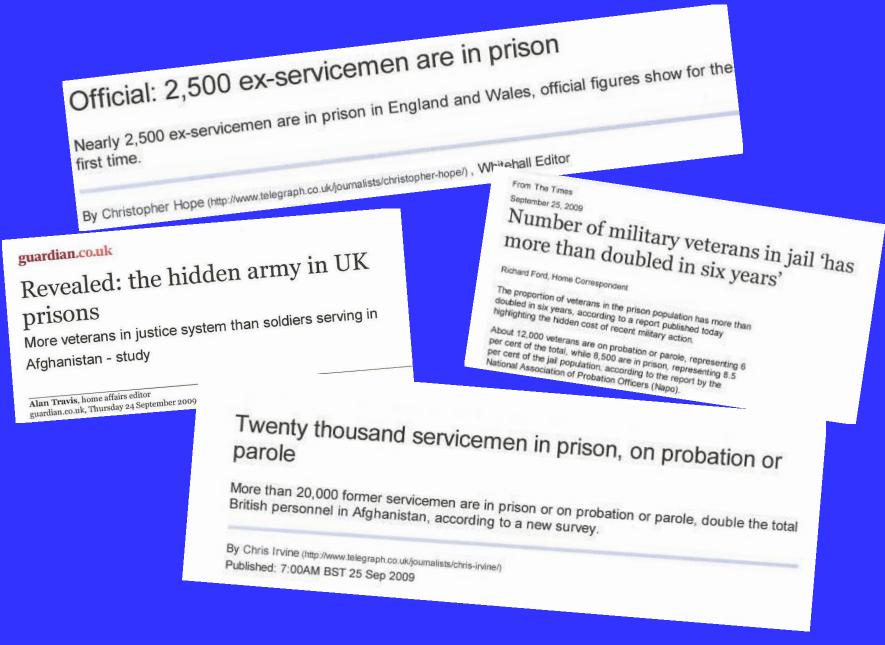
Help seeking for PTSD (APMS)



Most Veterans with PTSD do not get treatment...but nor do non Veterans











The truth...

- DASA (2010) 3.5%
- 30% less than expected
- But ... twice as likely to be convicted for a sexual offence (overall numbers still low)
- Detail on www.dasa.mod.uk





Suicide in the still serving AF population, males, 1984-2011

		Service							
Age group	Navy			Army	RAF				
(years)	Ν	SMR (95% CI)	Ν	SMR (95% CI)	N	SMR (95% CI)			
<20	7	60 (24-123)	71	146 (116-184)	6	66 (24-143)			
20-24	30	46 (32-66)	158	81 (69-94)	34	47 (34-66)			
25-29	23	37 (24-56)	88	53 (43-65)	41	48 (35-65)			
30-34	22	42 (26-63)	57	48 (37-62)	32	46 (32-65)			
35-39	24	50 (32-74)	47	49 (37-65)	21	34 (21-52)			
40-44	12	52 (27-91)	21	54 (34-83)	18	45 (27-71)			
45-49	5	42 (14-98)	8	49 (21-97)	5	23 (8-54)			
50+	-		-		3	22 (5-64)			

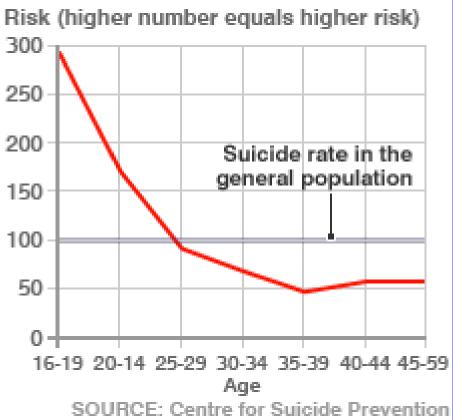




Suicide after Leaving the UK Armed Forces —A Cohort Study

Navneet Kapur^{1*}, David While¹, Nick Blatchley², Isabelle Bray², Kate Harrison²

RISK OF SUICIDE AFTER LEAVING UK ARMED FORCES







And to the future... inc the 2010 Murrison Report (Fighting Fit)

- Enhanced Mental Health Assessments during medicals
- RCT of post deployment screening
- Access to DMHS for 6 months post discharge
- Social networks MH pilot
- Veteran's Information Service
- More MH trust veteran workers







- Prevalence of military PTSD is relatively low and stable over time
- Prevalence of Common Mental Disorders is about the same as in the general population
- However, some groups do have poorer MH (combat, reservists, early service leavers) and alcohol misuse is an issue
- There's a lot of work that has gone on and a lot more yet to some



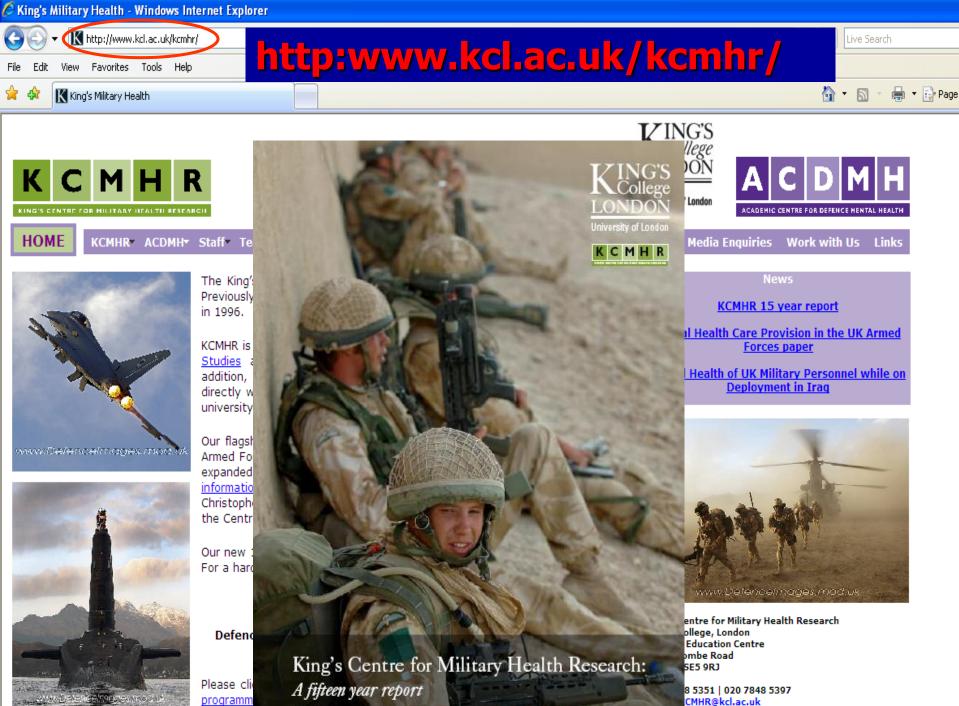


And of course

You shouldn't believe everything you read!







programm

What has been achieved by filteen years of research into the health of the UK Armed Forces?

Any Questions?- Fire Away!

Neil: sososanta@aol.com