

PTSD: Treatment Opportunities

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DSM 5: PTSD – CRITERION A

- exposure to: actual or threatened death, serious injury, or **sexual violence**, as follows:
(1 required)
- **Via:**
 1. directly experiencing
 2. Witnessing in person the event occurring to others
 3. Learning that it occurred to a family member or close friend – events violent or accidental
 4. **Repeated or extreme exposure to aversive details of traumatic events e.g. first responders; other occupational exposures**

PTSD

- How many Australians have been exposed to a potentially traumatic event?
- Females - 50%
- Males – 65%
- Examples of PTEs:
 - combat
 - other violent crimes
 - torture
 - severe accidents
 - rape victims
 - natural disasters

Mental Health Responses To Trauma

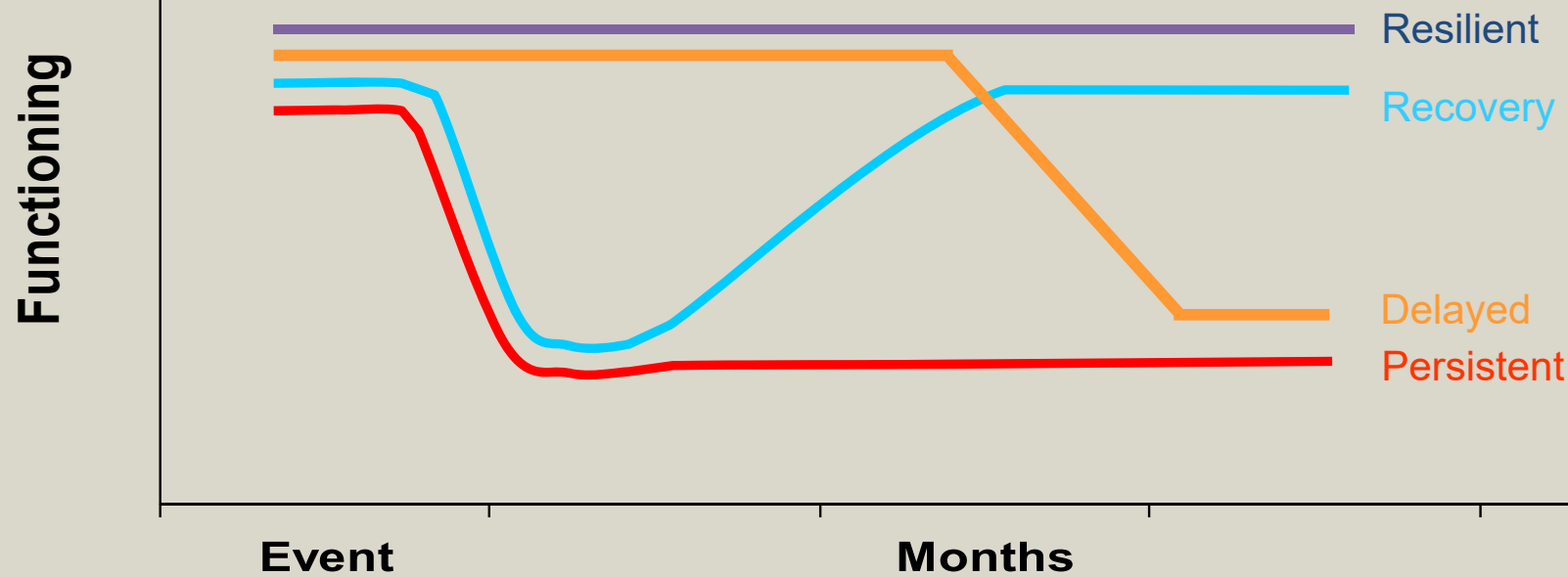
- Most people recover with no long term effects
- Some people report long term, extreme distress and social / occupational impairment
- Diagnoses:
 - Depression
 - Substance abuse
 - Anxiety, including panic, phobias, and post-traumatic stress disorder (PTSD)

PTSD (DSM-5)

- A: Objective experience of trauma
- B: Intrusive memories (images, smells, etc.) (1/5)
- C: Active attempts to avoid reminders (1/2)
- D: Negative alterations in cognitions and mood (2/7)
- E: Hyperarousal, tense, on edge, jumpy (2/6)
- F: Duration > 4 weeks
- G: Functional impairment and/or distress



COMMON PATTERNS OF RESPONSE FOLLOWING TRAUMA OR DISASTER (BONNANO)



Epidemiology of PTSD

- Australian 12 Month Prevalence
 - 6.4% (Commonest Anxiety Disorder)
- Global Prevalence
 - 1.3-8.8% World Mental Health Survey using Worst Event Methodology

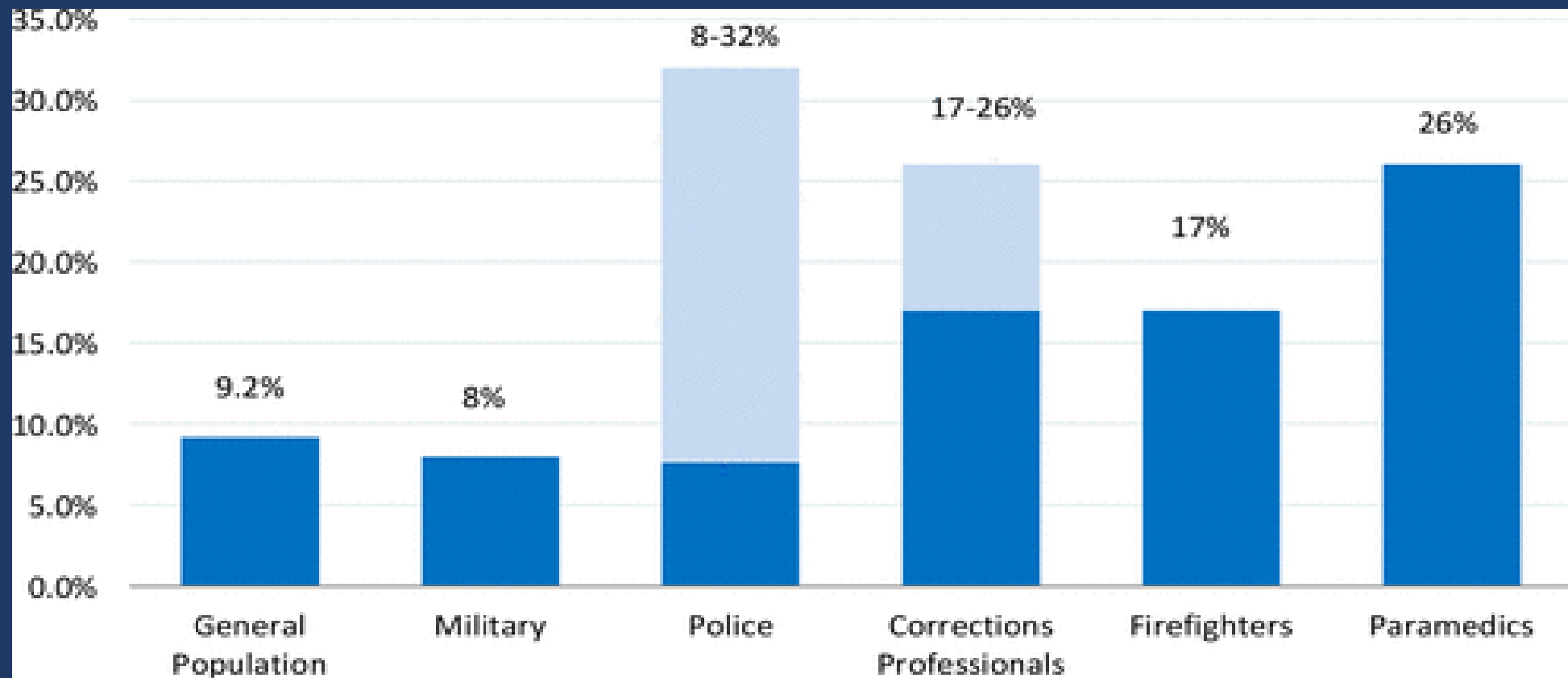
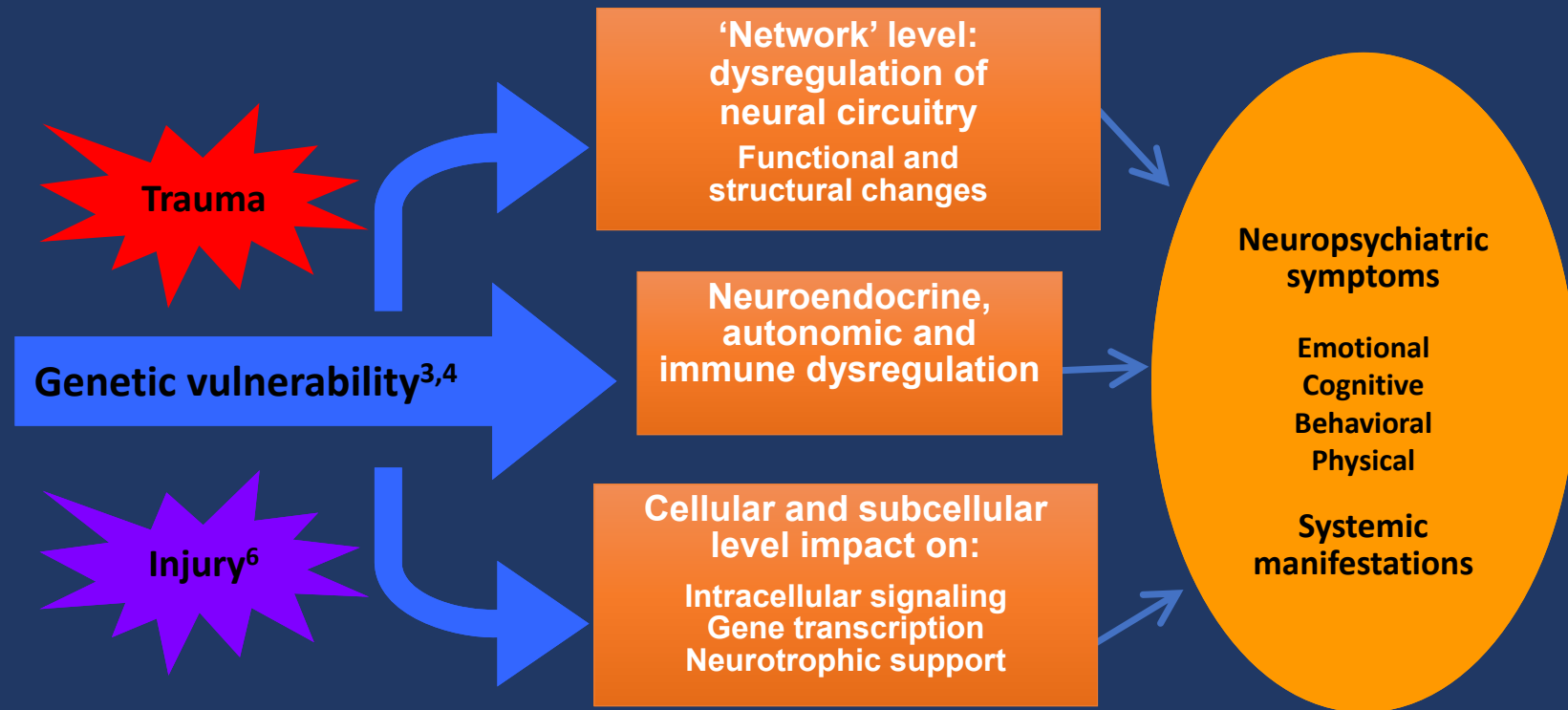


FIGURE 2 Lifetime PTSD Prevalence Rates: Specified Canadian Populations.

Sources: [Van Ameringen, Mancini, Paterson et al. \(2008\)](#); [Boulos & Zamorski \(2013\)](#); [Marchand, Boyer, Martin et al. \(2010\)](#); [Asmundson & Stapleton \(2008\)](#); [Rosine \(1992\)](#); [Stadnyk \(2004\)](#); [Corneil, Beaton, Murphy et al. \(1999\)](#); [Regehr, Goldberg & Hughes \(2002\)](#).



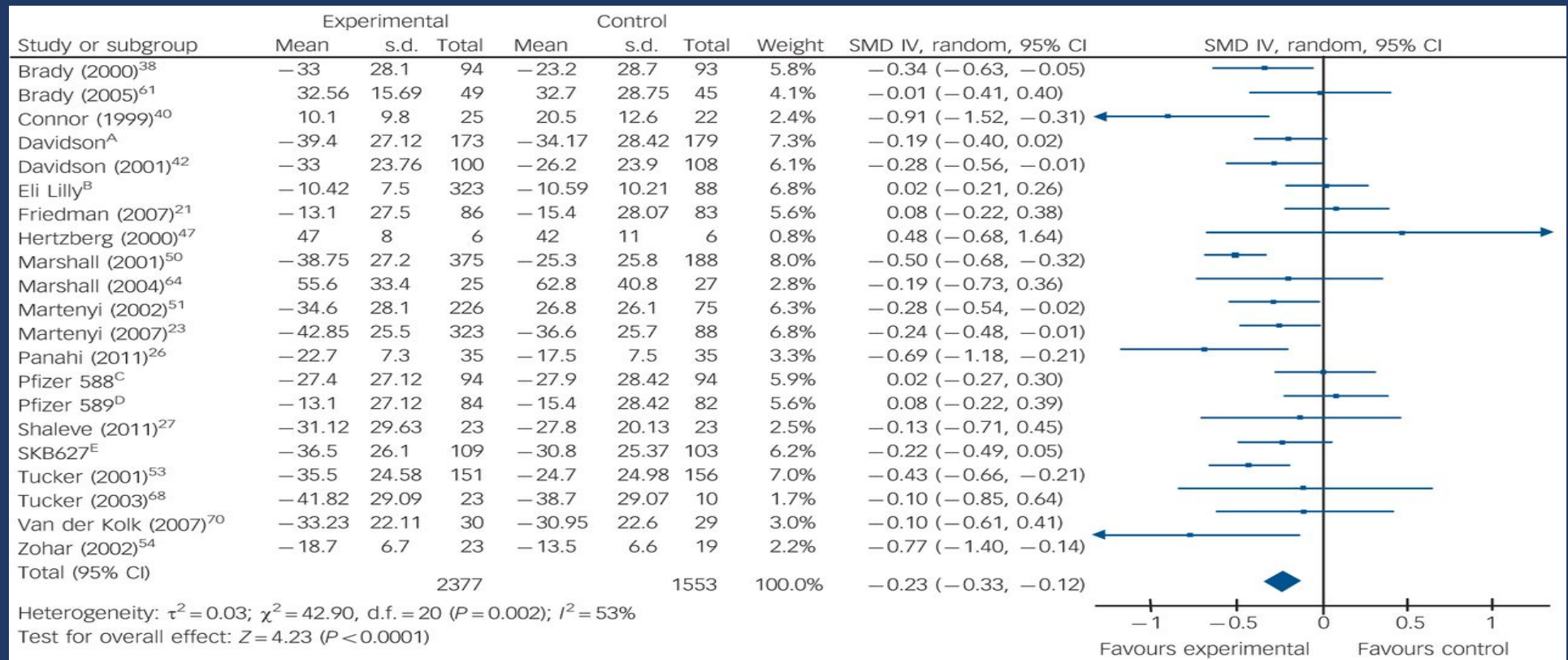
Micro to Macro Effects



Medication Classes Utilised in PTSD

- Antidepressants
 - SSRIs
 - Fluoxetine
 - Paroxetine
 - Sertraline
 - Citalopram
 - Fluvoxamine
 - SNRIs
 - Venlafaxine
 - Atypical Antidepressants
 - Mirtazapine

Meta-analysis of selective serotonin reuptake inhibitors v. placebo (SMD, standardised mean difference).



Mathew Hoskins et al. BJP 2015;206:93-100

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Medication Classes Utilised in PTSD

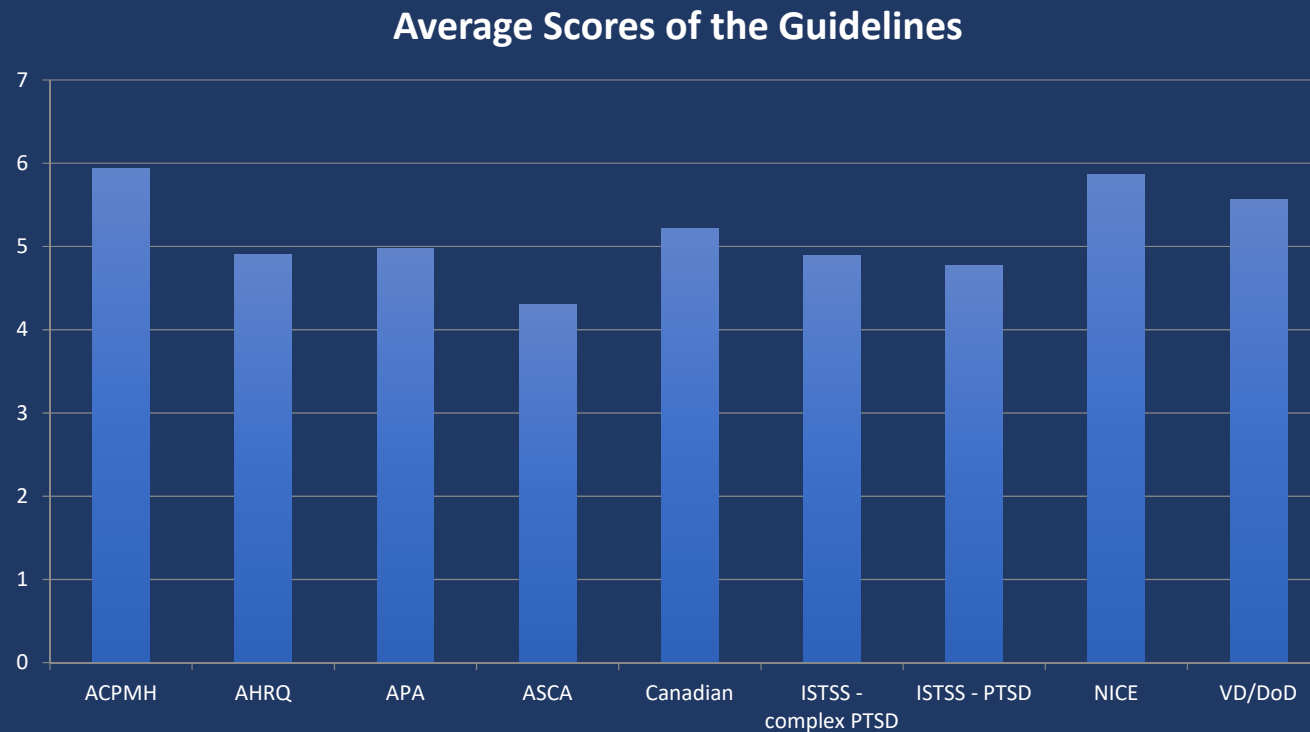
- Antipsychotics
 - Risperidone
 - Olanzapine
 - Quetiapine
- Benzodiazepenes
- Prazosin
- Topiramate

Evidence Based Use of medication in PTSD

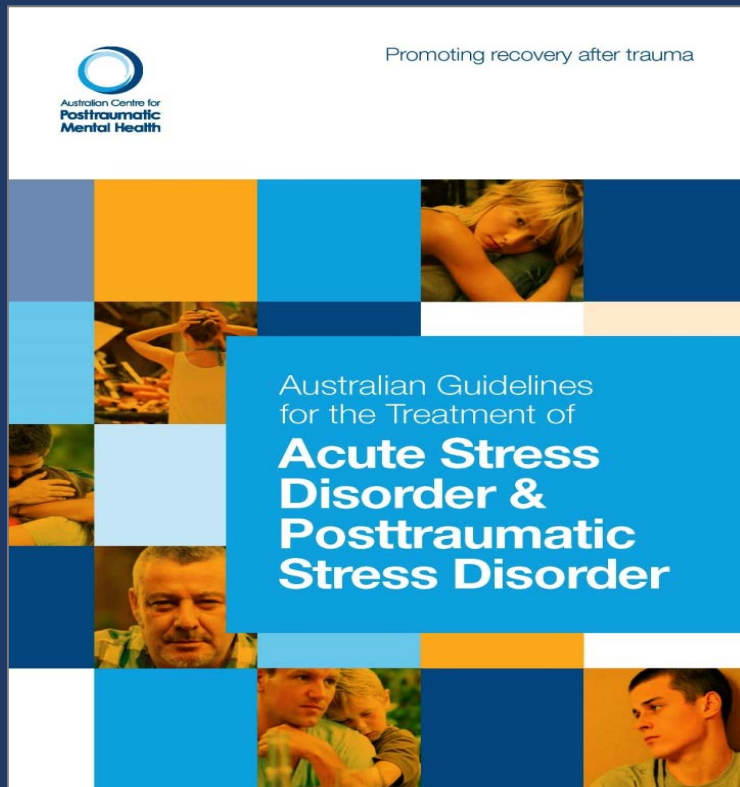
- Only SSRIs have the highest level evidence
 - Benefit is variable and modest in size
 - Only first line treatment in certain circumstances
- Other Antidepressants may be helpful
- Benzodiazepenes are for short term use wherever possible
- Atypical Antipsychotics may be useful but with a difficult risk benefit equation

Systematic Reviews & Guidelines:

- RANZCP AGREE II Survey 2013



Australian PTSD Guidelines - 2013



Developed in consultation with experts and people affected by PTSD



Supported by the Australian Government and approved by peak health research body - NHMRC



Endorsed by professional associations – RACGP, RANZCP, APS

Available from www.acpmh.unimelb.edu.au

NHMRC Guideline Recommendations: Adults

- Trauma focussed CBT or EMDR is the treatment of choice for PTSD:
 - Trauma focused CBT included
 - In vivo and imaginal exposure
 - Cognitive therapy or cognitive processing therapy
- Medication should not be used as routine 1st line in preference to TF psychological treatment
- Where prescribed:
 - SSRIs
 - Other newer antidepressants, tricyclics, phenelzine

Outcomes of Trauma Focussed Therapy

Clinical Bottom Line

- • Posttraumatic stress disorder (PTSD) is a disabling psychiatric condition common among military personnel and veterans
- • A range of psychotherapies are available, but military-PTSD is complex and difficult to treat
- • The available evidence supports the use of structured trauma-focused or non–trauma-focused approaches
- • Although trauma-focused and non–trauma-focused interventions often improve symptoms, many patients continue to meet criteria for PTSD after treatment
- • There is an urgent need for innovative treatment strategies, whether trauma-focused or non–trauma-focused

Steenkamp et al JAMA 2015

Pharmacotherapy and prevention

- Covers the use of pharmacological agents post trauma to prevent development of symptoms
- Limited high level evidence
- ACPMH Guidelines (ACPMH,2013)
 - Should not be used for all those exposed as a preventative intervention

Pharmacotherapy and Prevention

- Pitman et al (Biol. Psychiatry 2002)
 - Propranolol (N= 18) V Placebo (23)
- Stein et al (J. Traumatic Stress 2007)
 - Propranolol (n=17) V Gabapentin(14) V Placebo (17)
 - No impact on severity of PTSD or depressive Symptoms
- Gelpin et al, (J. Clin. Psychiatry,1996)
 - Treatment with Clonazepam/Alprazolam (N= 10) V Placebo (N= 13)
 - No impact of treatment on anxiety or PTSD symptom scores
- Schelling et al (Biol. Psychiatry,2004)
 - Variable dose hydrocortisone V Placebo (N=91)
 - Significant reduction in chronic stress, but not PTSD symptoms in Steroid treated group ($p<.05$)

Conclusion

- PTSD is a common, complex and disabling disorder
- PTSD is particularly common in certain subgroups
- PTSD is a cause of high personal and economic burden
- Currently only Level 1 evidence for SSRIs
 - Effect size small-medium
- Most guidelines recommend psychotherapy as first line treatment but not always appropriate
- Marked unmet need