New Challenges in Addiction Medicine AOCOPM OMED 2011

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Disclosure

✓ Anthony Dekker, DO has presented numerous programs on Chronic Pain Management and Addiction Medicine. The opinions of Dr Dekker are not necessarily the opinions of the Indian Health Service, the USPHS or the DoD. Dr Dekker has no conflicts to report.

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Combat Experiences (OEF)	2005	2007	2009
During this deployment did you experience being attacked or ambushed	49.9%	74.3%	83.3%
During this deployment did you experience receiving small arms fire	48.5%	68.6%	74.1%
During this deployment did you experience witnessing violence within the local population or between ethnic groups	<u>44.9%</u>	48.4%	53.8%
During this deployment did you experience seeing dead or seriously injured Americans	49.1%	63.5%	62.2%
During this deployment did you experience knowing someone seriously injured or killed	70.4%	87.1%	82.9%
During this deployment did you experience being in threatening situations where you were unable to respond because of rules of engagement	<u>33.1%</u>	48.2%	58.2%
During this deployment did you experience shooting or directing fire at the enemy	36.0%	58.8%	74.8%
During this deployment did you experience calling in fire on the enemy	<u>17.0%</u>	30.6%	44.1%
During this deployment did you experience receiving incoming artillery rocket or mortar fire	75.2%	91.0%	92.9%
During this deployment did you experience being directly responsible for the death of an enemy combatant	12.9%	30.9%	51.6%
During this deployment did you experience having a member of your own unit become a casualty	56.4%	75.0%	77.1%
During this deployment did you experience a close call dud landed near you	19.6%	38.7%	39.2%
During this deployment did you experience a close call equipment shot off your body	3.0%	16.1%	11.5%
During this deployment did you experience a close call was shot or hit but protective gear saved you	2.5%	11.9%	11.0%
During this deployment did you experience having a buddy shot or hit who was near you	8.8%	24.1%	36.4%





History of PTSD

- ✓ 1970's Vietnam Syndrome
- ✓ 1970's Rape Trauma Syndrome
- ✓ 1980 PTSD recognized as a generalized anxiety disorder in the then DSM-III
- ✓ 1980's PTSD issues and controversy emerge in worker's compensation, disability claims and medicolegal fronts
- ✓ 1990's PTSD becomes one of the most highly compensated psychological injury claims (Levy, 1995)

DSM-IV Diagnosis

- Exposure to a traumatic event in which both of the following were present:
 - ✓ Person experienced, or witnessed, or was confronted with an event or events that involved actual or threatened death or serious injury, or a threat to the physical integrity of self or others
 - ✓ Person's response involved intense fear, helplessness or horror

DSM-IV Diagnosis

- ✓ The traumatic event is persistently reexperienced in one or more ways:
 - ✓ Recurrent and intrusive recollections of the event including images/thoughts/perceptions
 - ✓ Recurrent distressing dreams of the event
 - ✓ Acting or feeling as if the event were recurring (flashbacks, reliving, illusions)
 - ✓ Intense psychological distress on exposure to internal or external cues of event
 - ✓ Physiological reactivity on exposure to internal or external cues of event

DSM-IV Diagnosis

- Persistent avoidance of stimuli associated with trauma & numbing of general responsiveness indicated by:
 - ✓ Avoidance of thoughts, feelings or conversations associated with trauma
 - ✓ Avoidance of activities, places, people that arouse recollections of the trauma
 - \checkmark Inability to recall important aspect of trauma
 - ✓ Diminished interest/participation in activities
 - ✓ Feeling of detachment/estrangement
 - ✓ Restricted range of affect
 - ✓ Sense of foreshortened future

DSM-IV Diagnosis

- ✓ Persistent symptom of increased arousal as indicated by (2):
 - ✓ Difficulty falling or staying asleep
 - ✓ Irritability or outbursts of anger
 - ✓ Difficulty concentrating
 - ✓ Hypervigilance
 - ✓ Exaggerated startle response
- ✓ Duration more than one month
- ✓ Disturbance causes clinically significant distress or impairment in social/occupational/other fxn

PTSD in the General Population

- ✓ 2-20% of civilians
- exposed to trauma✓ Lifetime 5% males,
- 10% females
- ✓ Women 4x more likely if exposed
- ✓ PTSD beyond 3 months often becomes chronic



Predictors of PTSD

- ✓ Other anxiety disorders
- ✓ Depression
- ✓ Substance abuse
- ✓ Abuse/PTSD history
- ✓ Avoidant coping style
- ✓ Behavioral acting out style
- ✓ External attribution of blame
- ✓ Prior unemployment
- ✓ Loss of control during event
- ✓ Fear of death
- ✓ Chronic pain

Polytrauma Definition

- ✓ Polytrauma: Two or more injuries to physical regions or organ systems, one of which may be life threatening, resulting in physical, cognitive, psychological, or psychosocial impairments and functional disability
 - ✓ Moderate-Severe Traumatic Brain Injury
 - ✓ Traumatic amputation; vision loss; hearing loss; musculoskeletal injury; chronic pain syndromes, other injuries
 - TBI and Co-Occurring Conditions



Author	Subjects	Pain Sx	PTSD Sx	TBI Sx	SUD Sx			
Clark et al., 2007	PRC inpatients (Tampa)	96%	44%	80%	4%			
loge et al., 2008	Soldiers with LOC	50%-100%*	44%	100%	N/A			
Kaira et al., 2008	Outpatients with pain (Tampa)	100%	16%	N/A	12%			
Kang & Hyams, 2007	OEF/OIF VA disability evals	N/A	15%	N/A	3%			
Lew et al., 2007	Outpatients with H/O mild TBI	97%	42%	100%	N/A			
Ruff et al., 2008	OEF/OIF outpatients with mild TBI	93%**	90%	100%	N/A			
Sayer et al., 2008	PRC inpatients (all PRCs)	82%	42%	88%	N/A			
Shipherd et al., 2007	Outpatients seeking PTSD Tx	66%	100%	N/A	28%			
Villano et al., 2007	295 OEF/OIF Mental Health patients	40%	46%***	N/A	49%			
*Headaches only: Total pain % not reported. * *Headaches only: Total pain % not reported.								



Suicidality and Chronic Pain Tang & Crane (2006)* Review of literature Risk of death doubles in those with chronic pain Back pain & widespread body pain: higher risk of future death by suicide Pain > 3 months = greater likelihood of experiencing suicidal ideation Suicidal ideation > in those with chronic pain with insomnia "Psychological Medicine, 36, 575-586



Intervention

✓ Safety Plans and Polytrauma

- ✓ Consider cognitive capacity
- ✓ Written / multiple copies / smartphone
- ✓ Review / rehearse / incorporate in cognitive rehab strategies
- ✓ Collateral support and family education

Intervention Incorporation of activities that are incompatible with self-harm behavior Pleasant events planning [Lewinsohn] Physical activity, aerobic conditioning "Tools of efficacy" Cognitive aids, compensatory strategies, planning experiences of efficacy Coping strategies for pain and other polytrauma conditions [can the person exert some sense of

control or mastery over symptoms?]

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Reducing Excess Disability

- ✓ Increase function, reduce the consequences of pain [Do more; then hurt less]
- ✓ Headache management
- ✓ Treat vestibular dysfunction
- ✓ Treat mood symptoms; facilitate self-coping and resilience
 - ✓ Depression-Anger-Anxiety
- ✓ Reduce alcohol/substances
- ✓ Nutrition/healthy lifestyle



Interdisciplinary Rehabilitation Team as a Transformational Process

- Effective rehabilitation team functioning impacts patient outcomes¹
- Team functioning can be changed by process improvement interventions²
- Team processes need to be optimized in working with those who have Polytrauma /TBI and cooccurring conditions

1 - Strasser, D. C., Falconer, J. A., Herrin, J. Bowen, S. Stevens, A. B. & Uomoto, J. (2005). Team functioning and patient outcomes in stroke rehabilitation. *Archives of Physical Medicine & Rehabilitation*, 68, 403-409.

 Strasser D.C., Falconer J.A., Stevens A.B., Uomoto, J.M., Herrin, J., Bowen, S.E., and Burridge, A.B. (200) Team Training and Stroke Rehabilitation Outcomes: A cluster randomized trial. *Archives* of Physical Medicine & Rehabilitation, 89, 10–15.