

Post-traumatic Stress Associated with Cancer

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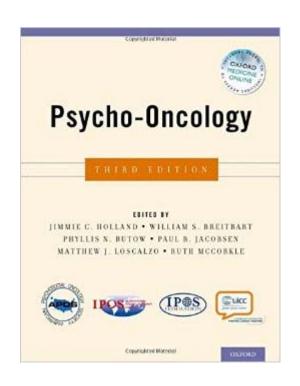
Disclosures

None



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- Matt Doolittle
- Kate DuHamel







Trauma History ≠ **PTSD**

- People who experience trauma may or may not experience long-term psychiatric symptoms
 - Those who do may or may not have symptoms that are closely related to their history of trauma
 - When there is a close relationship, it may or may not be consistent with PTSD



Trauma as a "Reason"

 Psychiatric diagnosis does not assign "fault" in PTSD or in any other syndrome/diagnosis



DSM-5

Psychosocial Oncology

So much less to memorize 1980 - PTSD DIAGNOSTIC AND STATISTICAL DSM-5 MANUAL OF MENTAL DISORDERS TITLE TO TICLE DSM-5 1994 – Life Threatening Illness PEAGMOSTIC AND CAUSTICAL MANUAL OF ME DESORDER AMERICAN PSYCHIATRIC ASSOCIATION



- Exposure to actual or threatened death, serious injury, or sexual violence
 - Direct experience
 - Witnessed in person
 - Learn about events affecting close friend or family member (for death, must have been violent or accidental)
 - Repeated or extreme exposure to aversive details (e.g. paramedic frequently responding to car accidents)



- Intrusion / Re-experiencing
 - Memories
 - Dreams
 - Dissociation (e.g. "flashbacks")
 - Psychological distress from trigger/reminder
 - Physiological reaction to trigger/reminder



- Avoidance of triggers/reminders
 - Avoidance of associated memories, thoughts, feelings
 - Avoidance of external triggers (people, places, objects, etc.)
 - BCCA, appointments, medications, treatments



- Associated changes in cognition and mood
 - Inability to remember important aspect of traumatic event(s) – lack of memory may not be trauma related in severe illness
 - Persistent negative beliefs about oneself, others, or the world
 - Distorted thoughts about the cause or consequence of the event(s) that lead to blaming self or others – common in cancer
 - Persistent negative emotional state (e.g. fear, anger, guilt, shame)



- Associated changes in cognition and mood (Continued)
 - Reduced interest in activities
 - Feeling detached or estranged from others
 - Inability to experience positive emotions



- Changes in arousal or reactivity
 - Irritable or angry outbursts without provocation
 - Reckless or self-destructive behavior
 - Hypervigilance may be focused more internally when trauma is severe illness
 - Easy to startle
 - Difficulty concentrating
 - Disturbed sleep

(?illness related)



- Lasts for more than 1 month
- Clinically significant distress or impairment
- Not due to medications, drugs, alcohol



Prevalence

- 10 20% of patients with cancer meet criteria for PTSD
- About double the lifetime risk within the general population
- Studies focused on cancer survivors estimate prevalence of 3 – 5%
- Up to 50% of young adult survivors may experience post-traumatic stress

Rourke et al., 2007; Stuber et al., 2010; Doolittle & DuHamel, 2015



Ongoing Trauma in Survivorship

- Threat of future cancer or recurrence
- Threat of late effects
- Current late effects
- Reminders of cancer
- Social losses
- Cognitive losses
- Reproductive capacity

Place of safety is not ensured, possibly not even likely for some



Symptoms and Behaviors in Post-traumatic Stress

- Negative ruminations
- Intrusive thoughts
- Nightmares
- Increased arousal when talking about cancer
- Avoidance of healthcare settings
- Hypervigilance of body systems
- Sense of foreshortened future



Risk Factors

- Information is minimal in oncology populations
- In women with breast cancer:
 - Prior diagnosis of PTSD
 - Prior diagnosis of other anxiety disorders
 - Prior trauma
- Severity of cancer is not a strong predictor for PTSD

Andrykowski & Cordova, 1998; Butler et al., 1999; Shelby et al., 2008



Risk Factors

- In the general population, other risk factors include:
 - Female gender
 - African American, Native American, Latino
 - Lower Education
- Increased risk in non-Caucasians may hold true in cancer, other risk factors not clear



Risk Factors – Young Adult Survivors

- Female gender
- Lower socioeconomic status
- Unemployment
- Lower education level
- Being single



Risk Factors – Young Adult Survivors

- Variables that are less predictive:
 - Kind of cancer
 - Form of treatment
 - Age at diagnosis
 - Time since treatment



Post-traumatic Growth

- Most cancer survivors are psychologically well adjusted
- Some also show post-traumatic growth where views of self, relationships, and future plans may be enhanced/improved compared to others



Differences with Trauma from Cancer

- Internal rather than external event
- Initial internal event precipitates a possible series of difficult external events
 - Symptoms
 - Communication of diagnosis
 - Side effects of treatment
 - Reaction of friends and family
 - Ongoing threat of progression or recurrence

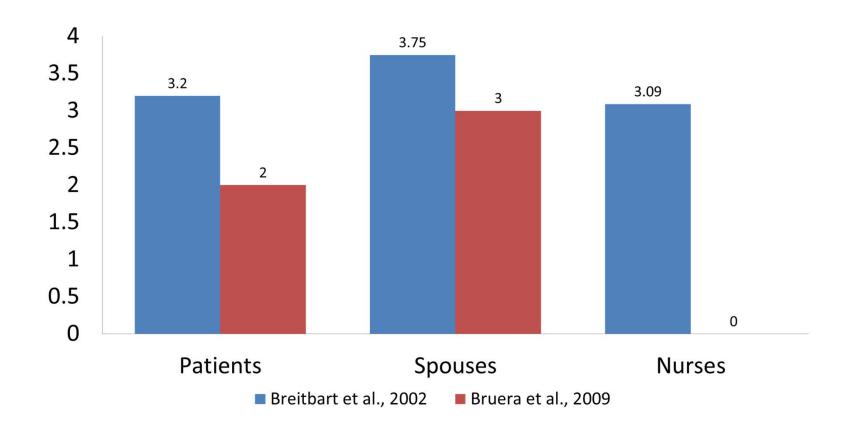


ICU and PTSD

- In 238 post-ventilated ICU patients:
 - Rate of diagnosable PTSD was 9.2% at 3 months post-ICU
 - Strong association between PTSD and recall of delusional memories and 57% of patients had delusional memories (e.g. staff trying to kill them)

Family Distress - Delirium

Psychosocial Oncology





PTSD in Family Members

- Study of 65 mothers of childhood cancer survivors
 - -6.2% had PTSD
 - Additional 20% had subclinical PTSD



Treatment - Medications

- Pick medications where side effects are helpful (e.g. increased appetite)
- SSRIs (e.g. sertraline, escitalopram)
 - Low dose fluvoxamine for nightmares
- SNRIs (e.g. venlafaxine, duloxetine)
 - May help with pain
- Mirtazapine
 - May help with sleep, appetite, and nausea



Treatment - Medications

- Atypical antipsychotics (e.g. olanzapine, quetiapine)
 - Olanzapine may help with sleep, nausea, and appetite



Tamoxifen

- Tamoxifen converted to active metabolite endoxifen via 2D6, so strong 2D6 inhibitors reduce effectiveness
- Strong 2D6 inhibitors: paroxetine, fluoxetine, sertraline, bupropion
- Weak 2D6 inhibitors: citalopram, escitalopram
- Very weak to no inhibition: venlafaxine, mirtazapine



Procarbazine

- Procarbazine can act as a monoamine oxidase inhibitor (MAOI)
 - Need to be cautious with other serotonergic medications (e.g. SSRIs) to prevent serotonin syndrome



Treatment - Psychotherapy

- Cognitive Behavioral Therapy (CBT)
 - Relationship between thoughts, feelings, and behaviors
 - Challenge "cognitive distortions"
 - May include exposure therapy
 - Some evidence for more sustained improvement in cancer patients when compared to supportive counseling
- Mindfulness-based stress reduction