#### Combat-Related Polytrauma (non-live)

#### **Course Description**

"Combat-Related Polytrauma" is an online recorded video of a previously presented live CE webinar for athletic trainers. This course presents contemporary information about somatic trauma and comorbidities in combat veterans. This course includes a review of current literature relating to the pathophysiology, clinical presentation, and therapeutic management.

#### **Course Rationale**

The purpose of this course is to provide participants with contemporary information about conflict-related multiple trauma. Athletic trainers can use this information to develop and implement effective treatment programs that address the specific needs of individuals effected by these disorders.

#### **Course Goals and Objectives**

Upon completion of this course, participants will be able to:

- 1. List and describe common combat-related traumatic injuries and conditions.
- 2. Detail comorbidities contributing to polytrauma.
- 3. Identify and define the roles of all health care professionals providing comprehensive care to individuals with combatrelated polytrauma.
- 4. Detail the Department of Defense Standard Case Definitions for traumatic brain injury.
- 5. Identify the mechanism of injury, pathophysiology, and medical management of blast related traumatic brain injury.
- 6. Identify the mechanism of injury and rehabilitation considerations related to dismounted complex blast injury.
- 7. Describe common pain syndromes associated with combat-related polytrauma.
- 8. Identify rehabilitation considerations for non-somatic for disorders presenting post-deployment.
- 9. Identify and select appropriate screening tools to assess physical and psychosocial function.
- 10. Identify the clinical presentation and rehabilitative management of individuals presenting with polytrauma.

Course Provider - Innovative Educational Services

Provider Conflict of Interest - None

Course Instructor - Jodi Gootkin, PT, Med, CEAS

Instructor Conflict of Interest - None

Target Audience - Athletic Trainers

Athletic Training Practice Domains – Clinical Evaluation & Diagnosis (0201, 0202, 0203, 0204, 0205); Treatment and Rehabilitation (0401 & 0404)

Level of Difficulty - Essential

Course Prerequisites - None

Method of Instruction/Availability - Recorded video available online on-demand

Criteria for Issuance of CE Credits – Completion of viewing of 3 hour recorded video, and a score of 70% correct or greater on the course post-test

Continuing Education Credits - Three (3) hours of continuing education credit.

Fees - \$34.95

**Refund Policy** - Unrestricted 100% refund upon request. The request for a refund by the learner shall be honored in full without penalty or other consideration of any kind. The request for a refund may be made by the learner at any time without limitations before, during, or after course participation.

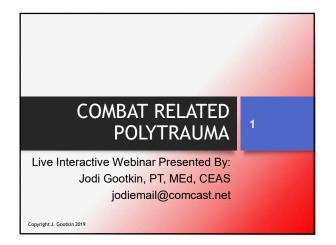
#### Course Outline & Schedule

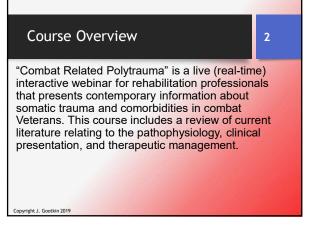
Defining Combat-Related Trauma Impact
Comprehensive Polytrauma Team Role of Rehabilitation
Traumatic Brain Injury
Amputation
Spinal Cord Injuries
Pain
Non-somatic Disorders
Other Comorbidities
Discussion of Clinical Applications

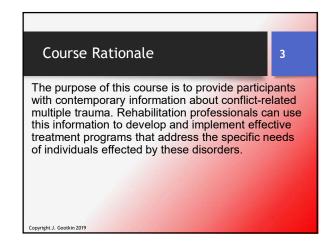
#### Approval -

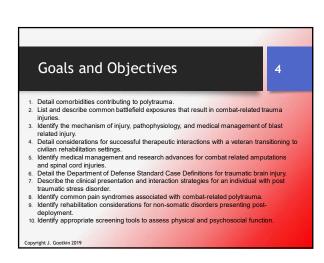


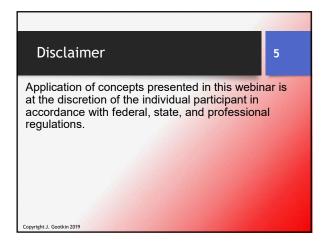
Innovative Educational Services is approved by the Board of Certification, Inc. to offer continuing education for Certified Athletic Trainers.

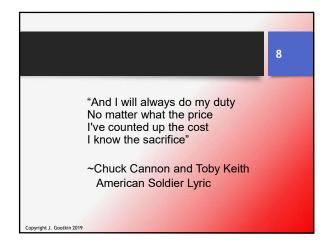




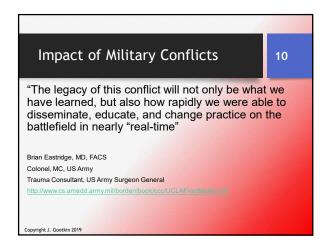


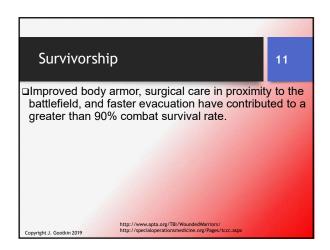


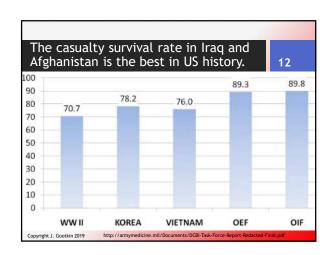


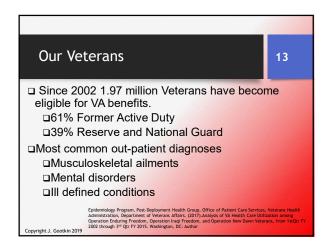


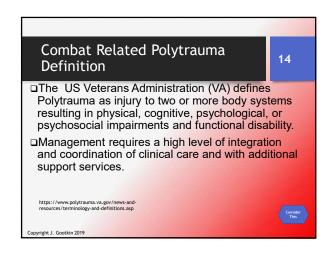




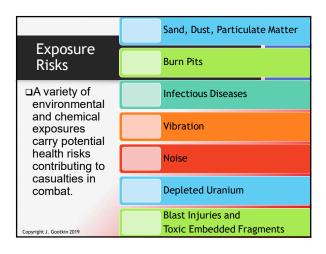


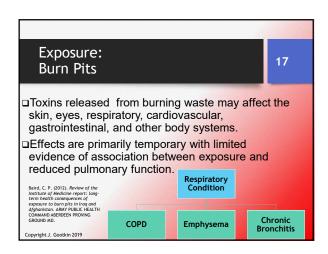


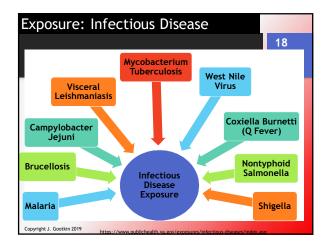


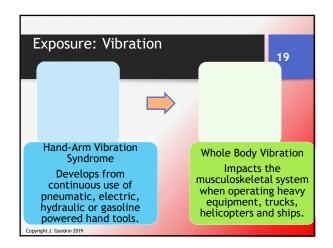




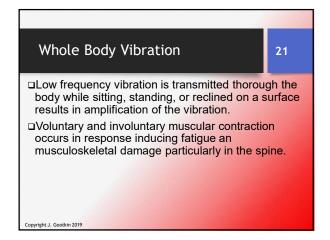


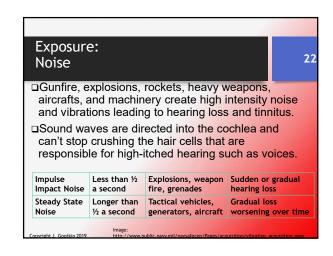


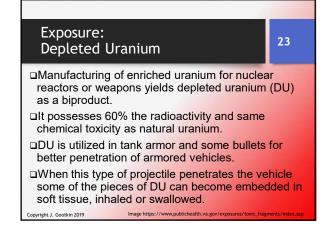


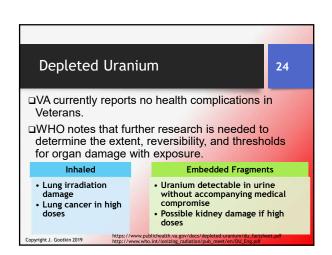


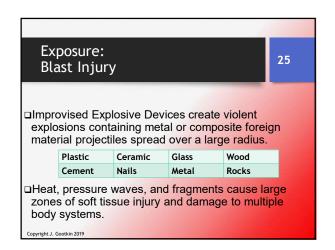


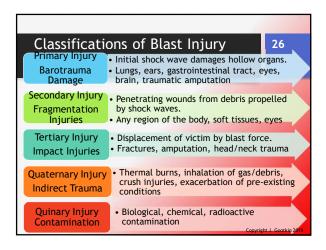




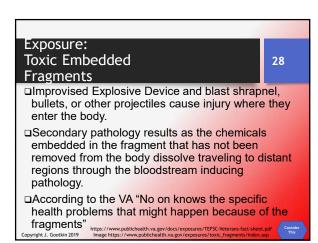


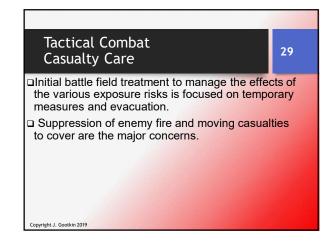


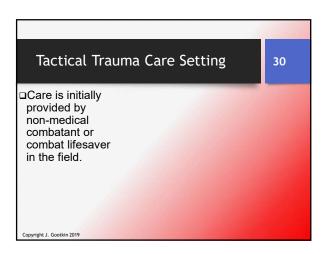


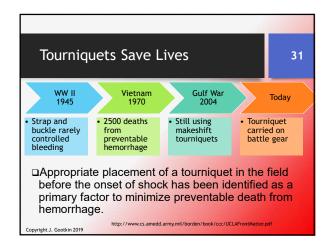


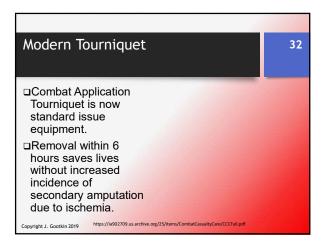


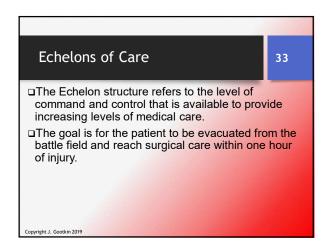




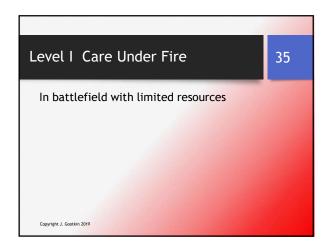




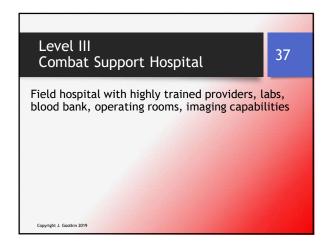


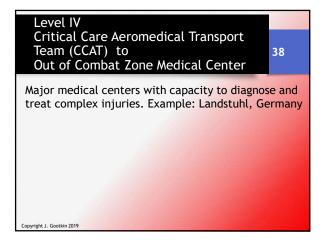


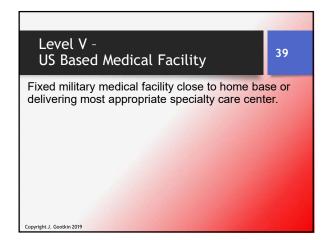


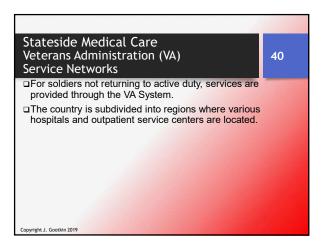


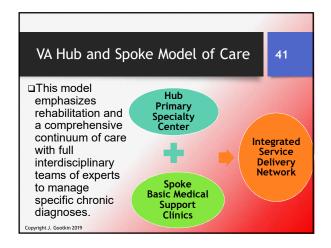


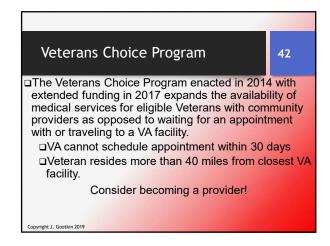


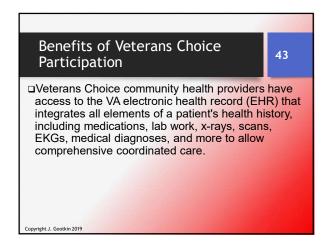


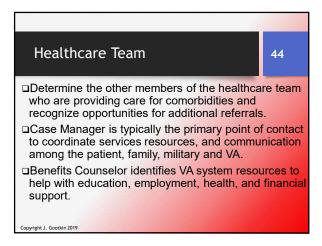


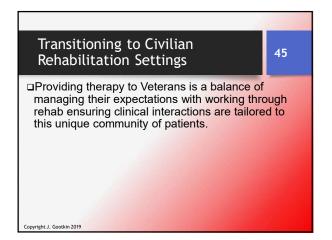






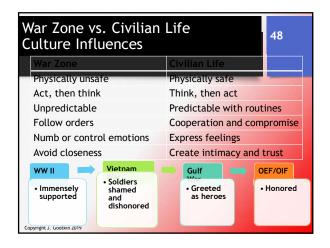




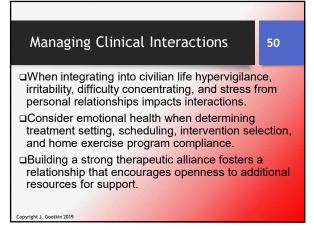


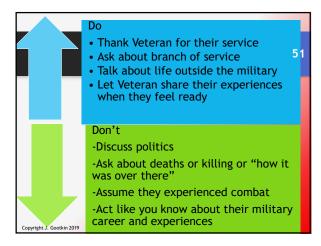


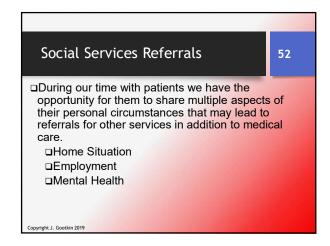




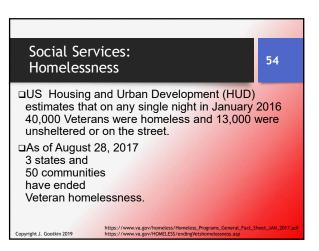
#### Transitioning Considerations for 49 the Clinician □Military service members transitioning into work, home life, medical and social interactions are negotiating many relationships and new situations. □Consider military identity during your interactions. Strength Courage Commitment Loyalty Accountability Discipline Persistence Punctuality Respect Copyright J. Gootkin 2019



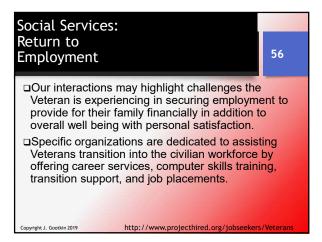


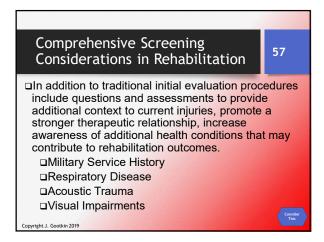


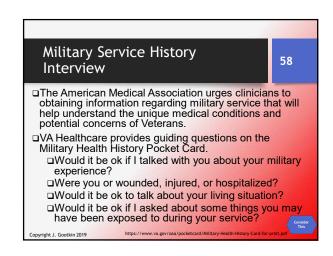




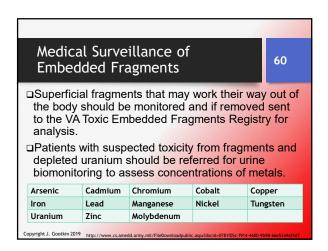


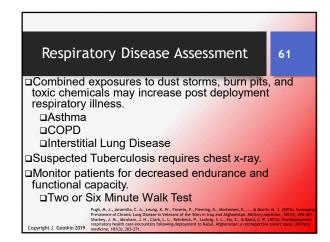


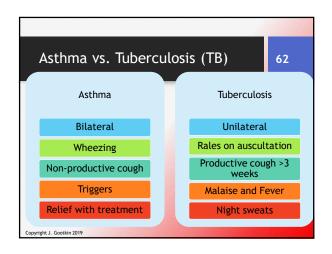


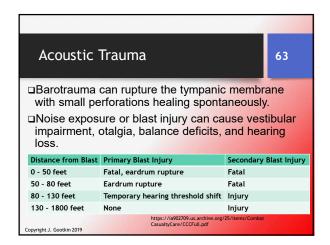


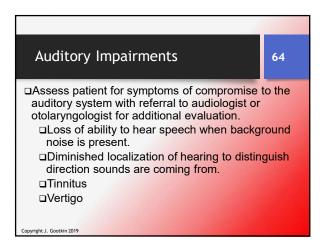


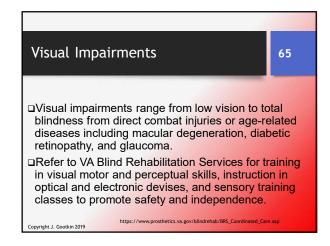


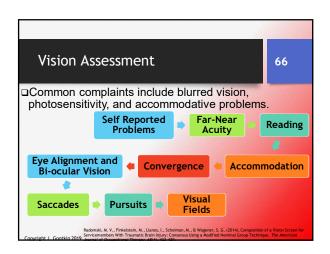












# Vision Assessment: Convergence Insufficiency Symptom Survey Patients may have difficulty describing symptoms or may not realize fatigue, poor attention, dizziness, headache, balance deficits are related to vision impairment. Self assessment of how eyes feel when reading and doing close work. Score greater than 21 can indicate impairment requiring referral to ophthalmologist or optometrist http://www.sankaranethralays.org/pdf/patient.care/Convergence-Insufficiency-Symptom-Sarvey.pdf

# Vision Assessment: Snellen Eye Chart Widely used test of visual acuity. Patient is 20 feet away from chart Cover one eye Score is best line that they can read. Numbers on left side of chart indicate distance someone with normal vision an see that line at. Vision 20/40 or worse warrants referral to optometrist.

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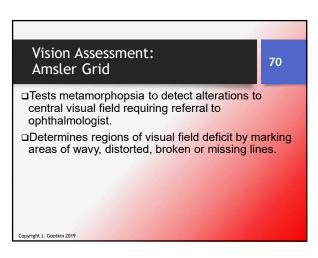
Vision Assessment:
Chronister Pocket Acuity Chart

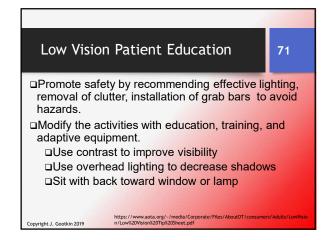
Small packet of numbers that are viewed from close distances too assess visual acuity from 20/200 to 20/10.

Contains conversion chart to convert to Snellen values from multiple distances.

Pediatric version available with image targets.

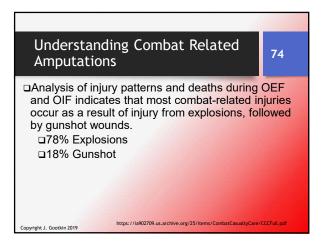
Vision 20/40 or worse warrants referral to optometrist.

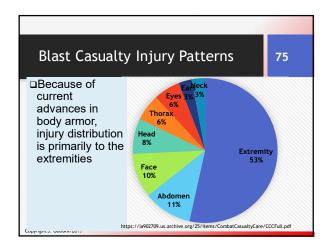


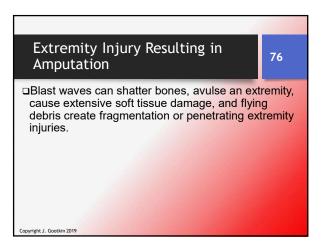


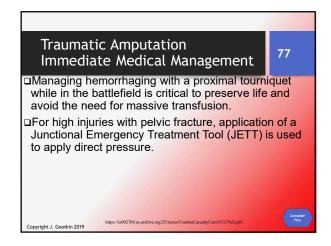


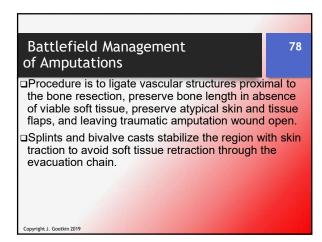




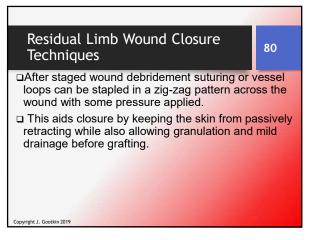


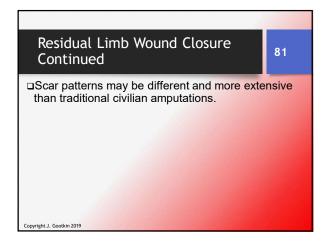


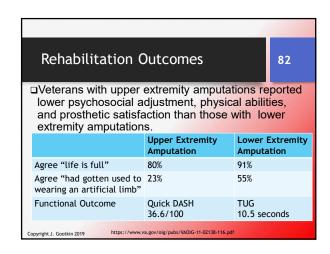


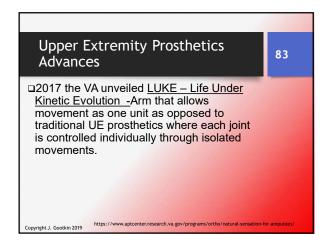


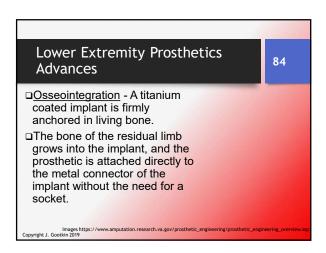
# Follow-up Medical Management of Amputation Negative Pressure Wound Therapy (NPWT) is used as a bridge to delayed closer, flap coverage, or coverage with a split thickness skin graft. It contributes to increased granulation rate, decreased bacterial colonization, and effective closure or the wound. http://www.usaiscamedd.army.mil/cpgs/Amputation\_01Jul2 016.pdf Copyright J. Gootkin 2019

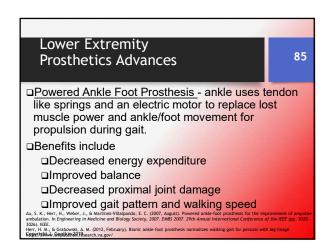


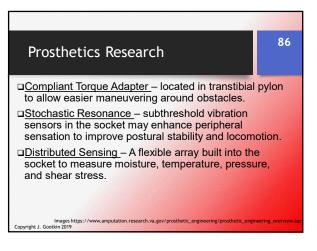




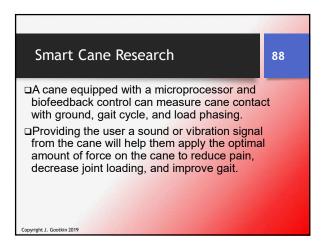


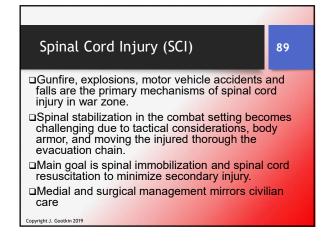


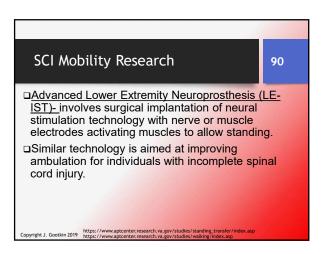


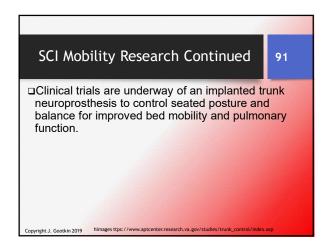


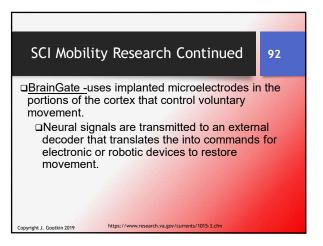


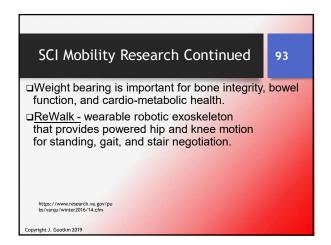




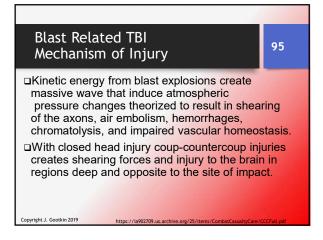


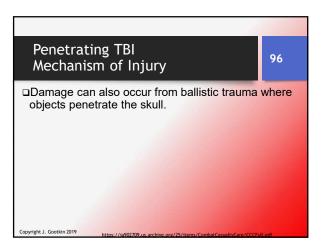


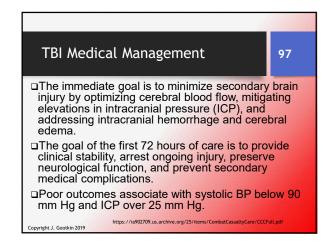


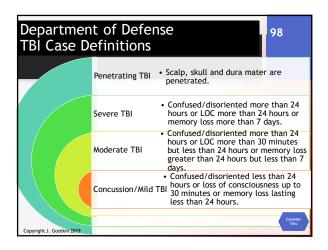


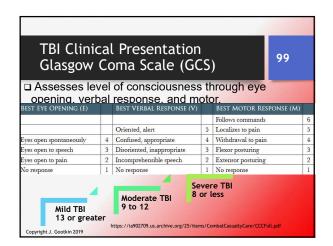


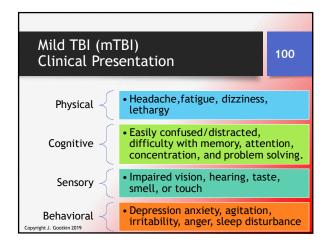


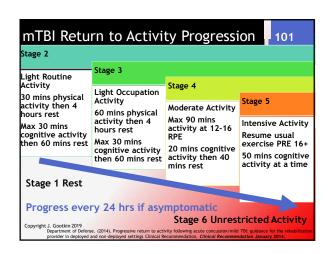


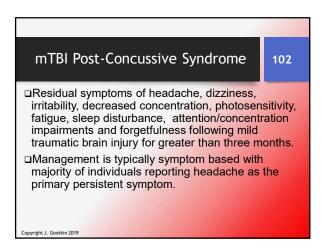


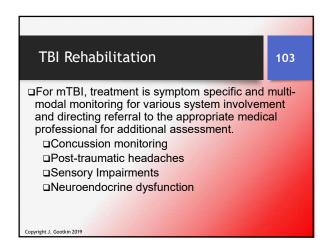


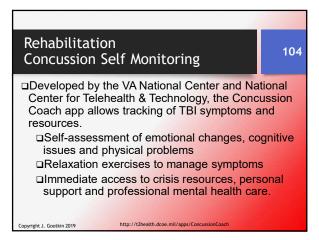


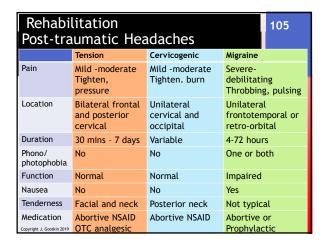


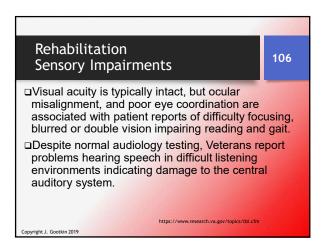


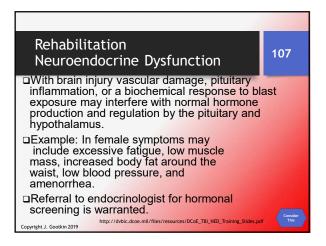


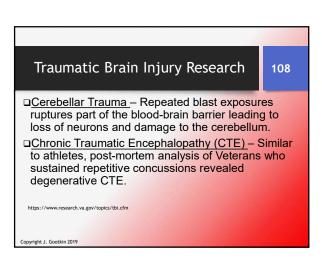


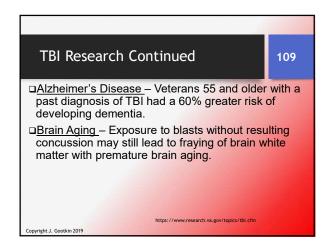


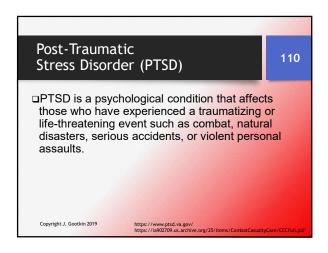


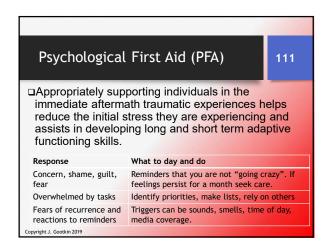


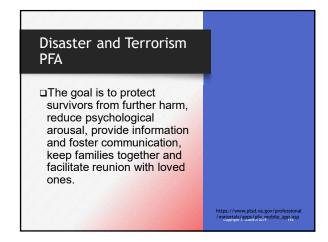


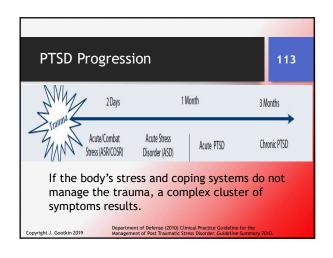




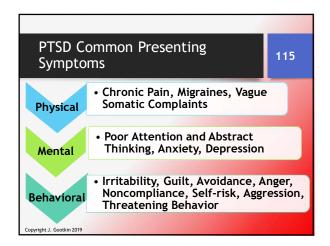


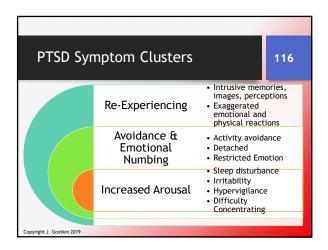












# PTSD Screening Tools Referral to a mental health provider may be necessary if symptoms persist and interfere with function and relationships. Only specifically trained mental health professionals can used advance assessment tools. Evaluation of Lifetime Stressors (ELS) Life Events Checklist for DSM-5 (LEC-5) Combat Exposure Scale (CES)

PTSD Screening Tool
Evaluation of Lifetime Stressors (ELS)

Self report questionnaire and interview assessing perceptions and emotional response to disaster, illness, accident, violence, combat and other trauma.

The interview provides a way to explore dimensions of each trauma including trauma type, perpetrators/victims, duration, frequency, perceptions of threats and emotional response, and others.

PTSD Screening Tool
Life Events Checklist for DSM-5 (LEC-5)

Self-report measure designed to screen for potentially traumatic events in a respondent's lifetime.

Specifically assesses exposure to 16 events known to potentially result in PTSD or distress.

PTSD Screening Tool
Combat Exposure Scale (CES)

7-item self-report measure that assesses wartime stressors and exposures experienced by combatants. Items are rated on a multiple scales.

Frequency
1 = "no" or "never" to 5 = "more than 50 times"

Duration
1 = "never" to 5 = "more than 6 months"

Degree of loss
1 = "no one" to 4 = "more than 50%"

#### PTSD Management

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- □Ensure basic physical needs are met
- □Interventions to preserve life if individual is unstable or dangerous to self or others.
- □Medical and Psychological Care
- □Cognitive Behavioral Therapies
- □Social and Spiritual Support
- □Medications
- □Cognitive Fitness and Psychological Resilience Strategies
- □Relaxation and Stress Management

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### Rehabilitation Considerations for Patients with PTSD

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- □Patients diagnosed with PTSD may be participating in therapy for rehabilitation from musculoskeletal, general medical, and neurologic conditions or to promote health and wellness to manage their PTSD symptoms.
- □Therapists should perform basic assessment to understand the patients status and recognize how to manage therapeutic interactions.

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#### Screening Tool Primary Care PTSD (PC-PTSD)

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Designed for healthcare professionals outside the mental health fields.

- Would it be ok to talk about stress?
- In your life, have you ever had an experience so horrible, frightening, or upsetting that, in the past month you...
- Have had nightmares about it or thought about it when you did not want to?
- Tried hard not to think about it or went out of your way to avoid situations that reminded you of it?
- Were constantly on guard, watchful, or easily startled?
- Felt numb or detached from others, activities, or your surroundings?

Veterans Crisis Ine 1-800-273-8255 (Press ) https://www.va.gov/oaa/pocketcard/Military-Health-History-Card-for-print.pdf

#### PTSD Managing Interactions

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- □Do not approach the individual from behind or sneak up on them
- □When interviewing the patient focus on establishing a strong therapeutic alliance.
  - □Ensure privacy.
  - □Make no assumptions about feelings or meaning.
  - □Show interest and concern.
- □If patient is resistant to referrals, emphasize value of evaluation and treatment and suggest resources they can explore first on their own.

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### PTSD Managing Interactions Continued

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- □Acknowledge distress offering empathy and validating patient's feelings.
- □Example statements include:
  - □"I am so sorry that you are struggling with this."
  - □"I can appreciate how difficult this is for you."
  - "You are not the only patient I have who is struggling with this."
  - □"It's not easy, is it?"

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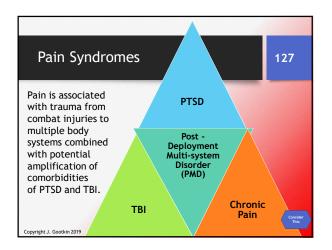
### PTSD Managing Interactions Continued

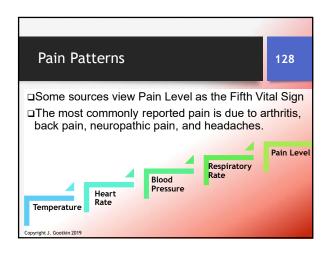
126

- □If the patient experiences PTSD symptoms during therapy, the clinician should speak in a calm, matter of fact voice.
- □Reassure the patient that everything is okay.
- □Remind the patient that they are in a safe place and their care and well being are a top priority.
- □Explain medical procedures and check with the patient (e.g., "Are you ok?").
- □Ask (or remind) the patient where he or she is right now.
- □If the patient is experiencing flashbacks, remind him or her that they are in XYZ office at a specific time in a specific place (grounding).
- □Offer the patient something that will make them feel more like their usual self.

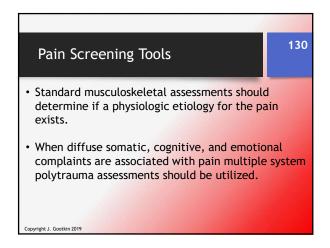
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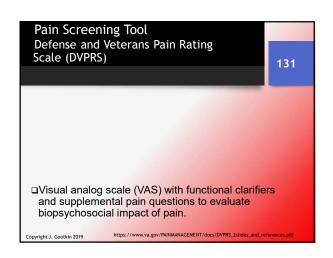
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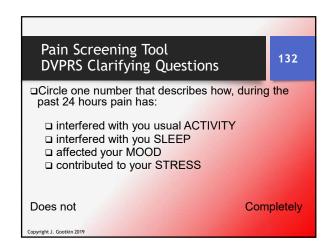




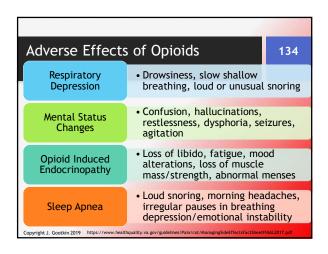












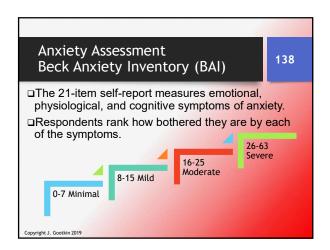


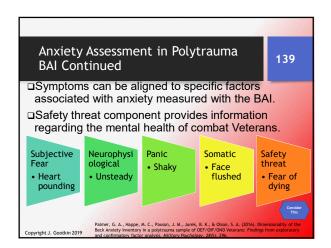


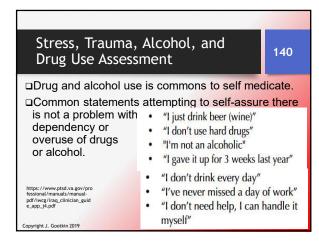
Non-Somatic Disorders

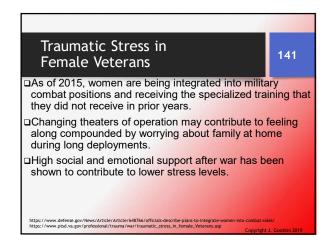
Post deployment individuals experience a variety of physical conditions (somatic) in addition to presenting with less tangible non-somatic mental health conditions that contribute to the complex management of polytrauma.

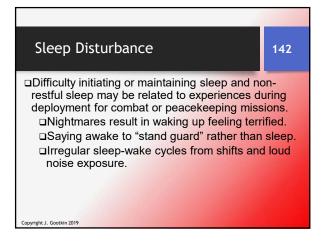
Anxiety
Drug Use
Sleep Disturbance

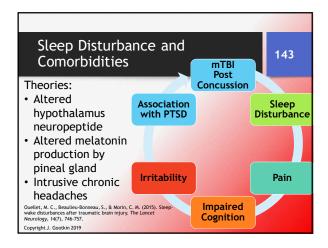


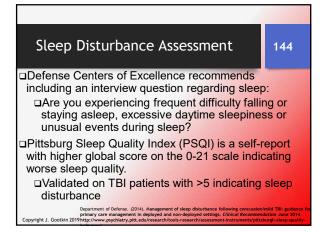


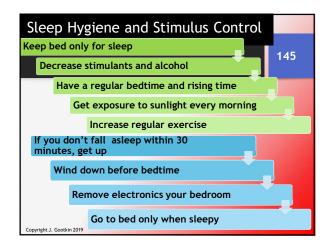




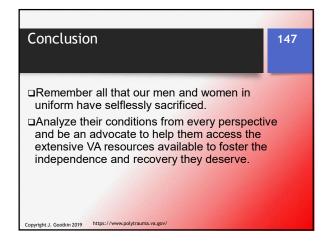


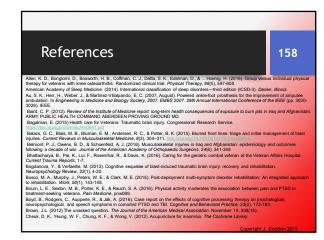


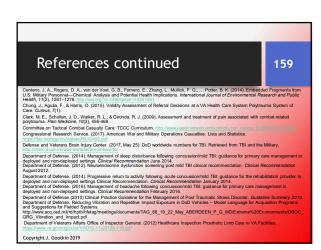




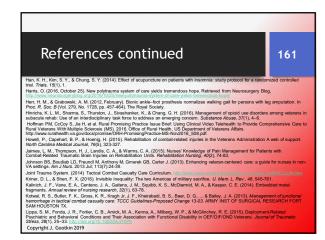






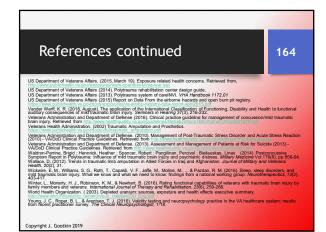








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## Combat-Related Polytrauma Resource Links

#### **Veterans Administration Medical Services**

Veterans Administration Medical and Benefits Center Locations https://www.va.gov/landing2\_locations.htm

State Veterans Affairs Offices https://www.va.gov/statedva.htm

Veterans Choice Program: Information to become a provider

https://www.va.gov/opa/choiceact/documents/How to Become VA Provider 05242017 508.pdf

VA Polytrauma/TBI System of Care: Resources and Services <a href="https://www.polytrauma.va.gov/">https://www.polytrauma.va.gov/</a>

VA Amputation System of Care https://www.prosthetics.va.gov/asoc/index.asp

VA Spinal Cord Injuries and Disorders System of Care <a href="https://www.sci.va.gov/">https://www.sci.va.gov/</a>

VA Substance Abuse Programs <a href="https://www.mentalhealth.va.gov/res-vatreatmentprograms.aspVA">https://www.mentalhealth.va.gov/res-vatreatmentprograms.aspVA</a>

Embedded Fragments Surveillance Center: Urine Biomonitoring for potential toxicity <a href="https://www.publichealth.va.gov/exposures/toxic">https://www.publichealth.va.gov/exposures/toxic</a> fragments/surv center.asp

VA Blind Rehabilitation Services: Low vision care, inpatient rehabilitation, and blind services <a href="https://www.prosthetics.va.gov/blindrehab/BRS">https://www.prosthetics.va.gov/blindrehab/BRS</a> Coordinated Care.asp

#### **Veterans Administration Social Services**

Homeless Veterans Resources and Referral Information <a href="https://www.va.gov/HOMELESS/index.asp">https://www.va.gov/HOMELESS/index.asp</a>
Homeless Veterans Outreach & Education Tools <a href="https://www.va.gov/HOMELESS/get\_involved.asp">https://www.va.gov/HOMELESS/get\_involved.asp</a>
Project Hired Wounded Warrior Workforce: Career Exploration, Job Placement, and Transition

Support http://www.projecthired.org/jobseekers/veterans

Veterans Service Organizations: Resources for Personnel, Veterans, and Families <a href="https://www.ptsd.va.gov/professional/materials/web-resources/military-resources.asp">https://www.ptsd.va.gov/professional/materials/web-resources/military-resources.asp</a>

#### **Veterans Administration Mental Health**

Veterans Crisis Line: 1-800-273-8655 Press 1 https://www.veteranscrisisline.net/

VA Mental Health Self-Help Resources: https://www.mentalhealth.va.gov/self\_help.asp

VA National Center for PTSD: <a href="https://www.ptsd.va.gov/">https://www.ptsd.va.gov/</a>

VA Mental Health Community Provider Toolkit: Multiple resources and free consultation service for clinicians managing patients with PTSD

https://www.mentalhealth.va.gov/communityproviders/index.asp

#### **Smartphone Apps**

VA Psychological Frist Aid Mobile: Resources and tips on applying Psychological Frist Aid <a href="http://t2health.dcoe.mil/apps/PFAMobile">http://t2health.dcoe.mil/apps/PFAMobile</a>

National Center for Telehealth & Technology T2 Provider Resilience: Tools to monitor and guard against burnout and compassion fatigue <a href="http://t2health.dcoe.mil/apps/provider-resilience">http://t2health.dcoe.mil/apps/provider-resilience</a>

National Center for Telehealth & Technology T2 Mood Tracker: Track Emotional Health http://t2health.dcoe.mil/apps/t2-mood-tracker

National Center for Telehealth & Technology T2 Concussion Tracker: Self Assessment of Symptoms and Access to Crisis Resources <a href="http://t2health.dcoe.mil/apps/ConcussionCoach">http://t2health.dcoe.mil/apps/ConcussionCoach</a>

#### **Screening Tools**

VA Military Trauma Iran War Clinical Guide

https://www.ptsd.va.gov/professional/materials/manuals/iraq-war-clinician-guide.asp

Department of Defense Dictionary of Military and Associated Terms:

http://www.dtic.mil/doctrine/dod dictionary

VA Military Culture Training for Health Care Professionals <a href="https://health.mil/Training-Center/DoD/Military-Culture-Training-for-Health-Care-Professionals--Introduction-and-Self-Awareness-Exercise">https://health.mil/Training-Center/DoD/Military-Culture-Training-for-Health-Care-Professionals--Introduction-and-Self-Awareness-Exercise</a>

VA Military Health History Card: Patient Interview Questions

https://www.va.gov/oaa/pocketcard/Military-Health-History-Card-for-print.pdf

VA Psychological First Aid Manual Field Guide

https://www.ptsd.va.gov/professional/materials/manuals/psych-first-aid.asp

Beck Anxiety Inventory <a href="http://www.pearsonclinical.com/psychology/products/100000251/beck-anxiety-inventory-bai.html?">http://www.pearsonclinical.com/psychology/products/100000251/beck-anxiety-inventory-bai.html?</a>Pid=015-8018-400&Mode=summary

Vision Screening: Convergence Insufficiency Symptom Survey

http://www.sankaranethralaya.org/pdf/patient-care/Convergence-Insufficiency-Symptom-Survey.pdf

Defense and Veterans Pain Rating Scale

https://www.va.gov/PAINMANAGEMENT/docs/DVPRS 2slides and references.pdf

Primary Care PTSD Screen

https://www.mentalhealth.va.gov/communityproviders/docs/PCPTSD Screen.pdf

Pittsburgh Sleep Quality Index <a href="http://www.psychiatry.pitt.edu/research/tools-research/assessment-instruments/pittsburgh-sleep-quality-index-psqi">http://www.psychiatry.pitt.edu/research/tools-research/assessment-instruments/pittsburgh-sleep-quality-index-psqi</a>