

LLB Exposure May Cause

- Concentration problems
- Dizziness
- Irritability
- Memory problems
- Slowed thinking/slow reaction time

- Decreased hand-eye coordination
- Difficulty hearing
- Fatigue
- Headaches
- Tinnitus

What Should Medical Providers Do?



Document

Document in the medical record:

- Estimate of total LLB exposures (e.g., weapon systems, duration of exposure, number of blasts)
- Military occupation(s) (e.g., MOS/NEC/AFSC)
- Years in high-risk occupation/ unit (e.g., military training instructor)



Code

- The ICD-10 code for the presenting condition is *first* in coding sequence.
- Assign the following LLB exposure code second in coding sequence:
 - Garrison: Y37.290_
 (Military operations involving other explosion and fragments)
 - Deployed: Y36.290_
 (War operations involving other explosion and fragments)



Manage

Symptoms related to LLB exposure may resolve with rest. For persistent symptoms:

- Provide the patient with the <u>LLB fact sheet for service</u> members.
- Consider traditional mTBI treatments such as PRA.
- For additional resources, refer to Health.mil/TBIProviders.

Research is still emerging on the full impact of LLB exposure on brain health and performance outcomes.



Key Terms

Acute Exposure: Contact with a blast event from a single origin at a specific point in time (i.e., use of a blast-generating weapon during a training session)

Blast Overpressure: Positive change in ambient pressure generated by the blast shock wave created when a weapon is fired. The highest part of the wave is referred to as peak overpressure (measured in pounds per square inch)

PRA: Progressive Return to Activity: Primary Care for Acute Concussion Management

Repetitive Exposure: Contact with multiple blast events either in a single training session or over a period of time (i.e., use of a blast-generating weapon over the course of multiple days of training or multiple training exercises)

The research efforts focused on understanding the effects of low-level blast exposure were initiated following the National Defense Authorization Act of Fiscal Year 2018 Section 734. Blast effects to the brain remain a focus area of the DOD Warfighter Brain Health Research Strategy.

