

**Specificity:** This concept identifies that **exposure** may give rise to an outcome regarding **susceptibility**. Associations between a factor or factors and an effect is equivocal to the concept that the greater the probability of such is equal to establishing a causal relationship.

Unfortunately, no records were considered relevant for my review, other than those noted herein. As such I cannot offer an intelligent, cogent, argument supporting a/any underlying condition that predisposed this injured worker to the complaints he now reports. He denies pre-existing injuries to the body parts identified herein, and where no evidence to the contrary exists, his susceptibility for these injuries, and the extent that "they" were evidentially determined to represent, cannot be addressed, to the standard of reasonable medical probability, without opportunity to review the entire medical records stemming accumulated through the specified time frame of January 01, 2000 through the date of specific injury of February 09, 2021, the latter alleged to be the last day that work was performed.

**Temporality:** This concept suggests that it is absolutely a necessary criterion for causal association(s) between exposure and a/an outcome, (the exposure must precede the outcome, although measurement of the exposure is not required to precede measurement of the outcome). Temporality is a known concept related to "time."

The temporal onset of traumatic injuries involving the left shoulder girdle appears to have been immediate, thus supporting acute musculoskeletal injury, and more likely than not superimposed upon preexisting, varying degrees of tissue degeneration at the left shoulder girdle, thus, by strict application of medical terminology, represents an "aggravation" injury, viewing this in the context of reasonable medical probability.

The temporal onset of cumulative and repetitive microtraumatic injuries must be addressed, using the standard of reasonable medical probability, only by opportunity to review the entire medical records spanning January 01, 2000 through February 09, 2021.

**Biological Gradient:** It seems only logical that the likelihood of a causal association is increased if a biological gradient or dose-response curve can be demonstrated. For many environmental exposures, there exists a threshold, which is predictably a non-linear association. For instance, the greater the exposure the greater the likelihood of incidence of the effect.

The dose-response for the alleged injury of February 09, 2021, was brief if we accept that which is apparently evident regarding awkwardly manipulating a lawnmower.

The dose-response for the alleged cumulative trauma injuries, reasonably spanned the course of arduous employment at Alton Management Corporation, as this injured worker denies preexisting injuries or complaints requiring medical attention in the body regions now claimed; neck, both shoulders, both wrists, mid-back and lower back.

**Plausibility:** In the field of epidemiology and biomedicine, **biological plausibility** is the proposal of causal association—that is, a relationship between a putative cause and an outcome, that is consistent with existing biological and medical knowledge. Yet, biological plausibility is just one component of a method of reasoning that can establish a cause-and-effect relationship between a biological factor and an adverse event. Thus, biological plausibility is an essential element of the intellectual background in the field of epidemiology.

Based on my thorough review, over the past 44-years, pertaining to the medical and scientific literature regarding causation of **acute** and **chronic** musculoskeletal injuries, considering the history pertaining to this injured worker, it is plausible, from an epidemiological standpoint, that mechanism Mr. Grande allegedly sustained, that is, lifting upward on the handle of the lawnmower, and awkwardly pivoting to the right, with the