

What are the three factors that contribute to the damage caused by penetrating trauma's? - ANS The point of impact, the velocity and speed of impact, and the proximity to the object.

What are the three processes that transfer oxygen from the air to the lungs and blood stream - ANS Ventilation: the active mechanical movement of air into and out of the lungs; diffusion: the passive movement of gases from an area of higher concentration to an area of lower concentration; and perfusion: the movement of blood to and from the lungs as a delivery medium of oxygen to the entire body.

What are the three stages of shock - ANS Compensated, decompensated or progressive, and irreversible.

What are the treatment goals for a TBI? - ANS O_2 saturation $>$ or equal to 95%, systolic blood pressure $>$ or equal to 100 MMHG, ICP $<$ 15 MMHG, CPP $>$ or equal to 60 MMHG, normal glycemia, hemoglobin $>$ or equal to 7 g/DL, sodium 135-145, osmotic diuretics, anti-emetics, sedatives, anticonvulsants, head of bed at 30° , and neck at midline

What causes quaternary effects of blast traumas? - ANS All explosion related injuries, illnesses, or diseases not due to the first three mechanisms. Injuries include external and internal burns, crush injuries, closed and open brain injuries, asthmatic or breathing problems from dust smoke or toxic fumes, angina, or hyper glycemia and hypertension.

What causes quinary effects of blasts traumas? - ANS Those associated with exposure to hazardous materials from radioactive, biologic, or chemical components of a blast. Injuries include a variety of health effects depending on agent.

What causes the primary effects of blast traumas? - ANS The direct blast effects. Types of injuries include last long, tympanic membrane rupture and middle ear damage, abdominal hemorrhage and perforation, global rupture, mild Traumatic Brain injury.

What causes the secondary effects of blast traumas? - ANS Projectiles propelled by the explosion. Injuries include penetrating or blunt injuries or I penetration.

What causes the tertiary effects of blast traumas? - ANS Results from individuals being thrown by the blast wind. Injuries include hole or partial body translocation from being thrown against a hard service: blunt or penetrating trauma's, fractures, traumatic amputations.

What is a trademark symptom of an epidural hematoma - ANS Loss of consciousness then awake and alert then loss of consciousness

What is bending? - ANS Loading about an axis. Bending causes compression on the side the person is bending toward tension to the opposite side

What is combined loading? - ANS Any combination of tension compression torsion bending and/or shear.

What is compression? - ANS Crushing by squeezing together

What is Cullen's sign and its significance? - ANS Cullen's sign is periumbilical bruising and is indicative of intraperitoneal bleeding

What is shearing? - ANS Damage by tearing or bending by exerting different parts in opposite directions at the same time.

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