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Nota di contenuto	""BRAIN INJURY""; ""CONTENTS""; ""ACKNOWLEDGMENTS""; ""PREFACE""; ""FOREWORD""; ""CHAPTER 1 Introduction""; ""CHAPTER 2 In Comparison to Prior Wars, More Troops Are Surviving""; ""CHAPTER 3 Blast Injury Basics""; ""WHAT HAPPENS DURING ANEXPLOSION?""; ""Sequence of Events in an IED Explosion""; ""Idealized Blast Pressure Waveform""; ""There Are Four Mechanisms of Blast Injury""; ""Armored Vehicle Capsized by a Roadside IED Explosion""; ""Blast Injury Terminology""; ""Primary Blast Injury""; ""HOW DO SHOCK WAVES INJURE TISSUE?"" ""SEVERAL THEORIES HAVE BEEN ADVANCED TO EXPLAIN PRIMARY BLAST-INDUCED NEUROTRAUMA (BINT)""""a€œHERE EDEMA, THERE EDEMA, EVERYWHERE EDEMA, EDEMA!a€?""; ""Hyperemic Cerebral Swelling and Scalp Edema (IED Blast Injury)""; ""Cerebral Edema and Scalp Swelling Are Common in Blast Trauma""; ""Soft Tissue Edema Is Common in Blast Trauma""; ""Blast Lung and Foreign Body Embolus""; ""Cerebral Edema and Hyperemia Are Common in Blast Brain Injury""; ""Cerebral Edema and Hyperemia Are Common in Blast Brain Injury""; ""Secondary Blast Injury""; ""Secondary Blast Injury (Typical

Fragmentation Wounds)

Secondary Blast Brain Injury; Intracranial Shrapnel; Tertiary Blast Injury; Traumatic Axonal Injury; Tertiary Blast Trauma (Crush Injury); Tertiary Blast Trauma (Enlarging Contusions); Tertiary Blast Trauma (Crush Injury); Tertiary Blast Trauma (Remote Traumatic Axonal Injury); Quaternary Blast Injury; Quaternary Blast Trauma (Thermal and Toxic Inhalation Injury); What Determines the Severity of a Blast Injury?; Protective Body Armor; How Common Is Blast Brain Injury?; Screening for TBI; Serum and Cerebrospinal Fluid Biomarkers of Brain Injury Have Been Shown To Correlate with Patient Outcome; BIOMARKERS OF BINT, IN PARTICULAR, REMAIN ELUSIVE; CHAPTER 4 The Weapons of War and Terrorism; Home-made? Improvised Explosive Device (IED); Typical IED and Ballistic Fragment; Vehicle-Borne IED (Car Bomb Injury); Vehicle-Borne IED (Car Bomb Injury); Explosively Formed Projectile (EFP); Typical Combat Munitions; Rocket-Propelled Grenade (RPG) Injury; Landmine Blast Injury; Bullet Behavior in Tissue; Basic Firearm Vocabulary; The Entry Site of a Gunshot Wound Is Always Smaller Than the Exit Site; Ammo Anatomy; Ammo Anatomy; Bullet Deformity and Fragmentation Increase the Injury; Ballistic Brain Injury Analogy; Behavior of a Bullet through the Brain; Fatal Gunshot Wound Showing Typical Poor Prognostic Imaging Findings; Shotgun Injuries; Type II Shotgun Injury to the Face (Acute); Type III Shotgun Injury to the Occiput (Chronic); Dual-Energy CT Decreases Artifacts from Metallic Foreign Bodies; Superficial Gunshot Wound; Penetrating Gunshot Wound

Sommario/riassunto

Brain Injury: Applications from War and Terrorism is a single-authored book written by a world-class neuroradiologist with extensive experience in traumatic brain injury (TBI). It features six graphic-intensive chapters depicting and expounding upon the complexity of TBI. Culled from nearly three decades of studying civilian TBI and five years of intensive study of TBI sustained from combat, terrorism, and natural disasters, this work is an exhaustive and innovative authority on the current approaches and applications of civilian and combat TBI. The text is sectoried into six chapters based on path
