



# PHTLS

**Prehospital Trauma Life Support**

**TENTH EDITION**



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# Phtls Provider Manual

**Ian Pickup**



## **Phtls Provider Manual:**

**PHTLS** ,2004-08 Prehospital Trauma Life Support PHTLS 5th Edition Military Version is a unique continuing education program that directly addresses trauma issues in the prehospital environment Following the publication cycle of ATLS Advanced Trauma Life Support by the Committee on Trauma of the American College of Surgeons the PHTLS program is designed to enhance and increase knowledge and skill in delivering trauma care The PHTLS textbook is the required book for the PHTLS course and is also ideal for use as the trauma component of a paramedic course or as a general reference book on trauma assessment and management Based on Prehospital Trauma Life Support PHTLS 5th Edition this military version combines both basic and advanced trauma concepts and skills in one definitive resource and features an entirely new chapter on evidence based guidelines for military medicine developed by the Committee on Tactical Combat Casualty Care Instructor resources available contact your sales representative for details A companion CD ROM with video presentations of the airway and spinal skills used in PHTLS is now included with every book It also contains information to download onto a PDA such as the Glasgow Coma Scale Revised Trauma Score Rule of 9 s Parkland Formula and Pediatric Vital Signs Content includes both basic and advanced training and has been updated to reflect the current ATLS guidelines complete with extensive references and suggested readings A consistent approach for every body region makes the book easy to follow and includes content on anatomy and physiology pathophysiology and assessment and management Includes chapters on Injury Prevention Golden Principles of Prehospital Trauma Care and Triage Transport and Trauma Systems Golden Principles of Trauma Care chapter includes information on prolonged transportation and additional treatment for a trauma patient when transportation times are greater than normal Case Scenarios with end of chapter solutions and Review Questions are included for every chapter to promote critical thinking and assess knowledge NAEMT Airway thoracic and spinal skills are presented in a heavily illustrated step by step format as Specific Skills The Airway Management and Ventilation chapter includes information on face to face intubation an alternate method of intubating trauma patients It also defines the difference between pharmacologically assisted intubation and rapid sequence intubation Includes information on tools such as pulse oximetry and capnography A difficult airway algorithm aids students in determining which airway adjuncts are appropriate and when they should be used Includes new photographs geared specifically to the military Describes differences in procedures in a non combat situation and those in a combat situation The Military Medicine chapter written by the military provides special trauma considerations and protocols Military procedures are also found throughout the text where applicable **USMC COMBAT LIFESAVER / TACTICAL COMBAT CASUALTY CARE TCCC TRAINER COURSE INSTRUCTOR & STUDENT CURRICULUM** , BACKGROUND IN 1996 THE NAVAL SPECIAL WARFARE COMMAND DEVELOPED A NEW SET OF TACTICALLY APPROPRIATE BATTLEFIELD TRAUMA CARE GUIDELINES NAMED TCCC THE TCCC GUIDELINES WERE ADOPTED BY THE U S SPECIAL OPERATIONS COMMAND USSOCOM AND APPROVED BY THE AMERICAN COLLEGE OF

SURGEONS ACS AND THE NATIONAL ASSOCIATION OF EMERGENCY MEDICAL TECHNICIANS THE COMMITTEE ON TCCC WAS ESTABLISHED IN 2001 AND WAS DIRECTED TO FURTHER DEVELOP THE TCCC STANDARDS AND GUIDELINES THE COMMITTEE ON TCCC FUNCTIONS AS A WORKING GROUP OF THE TRAUMA AND INJURY SUBCOMMITTEE OF THE DEFENSE HEALTH BOARD DHB WHICH HAS A CHARTER TO PROVIDE MEDICAL RECOMMENDATIONS TO ASD HA AND THE SERVICE SURGEONS GENERAL TCCC CONCEPTS WERE INCORPORATED INTO THE 8404 CORPSMAN TRAINING CURRICULUM IN 2005 THE TCCC CLS TRAINER COURSE WAS DEVELOPED IN 2006 TO PROVIDE CORPSMEN AS TRAINERS TO TEACH AND SUSTAIN TCCC STANDARDS TO CORPSMEN AND CLS SKILLS TO SELECTED MARINES WITHIN THE OPERATING FORCES THE IMPLEMENTATION OF TCCC ACROSS ALL SERVICES HAS BEEN IDENTIFIED AS ONE OF THE CONTRIBUTING FACTORS TO THE HIGHEST COMBAT CASUALTY SURVIVAL RATES IN HISTORY AND IS RECOMMENDED BY ASD HA FOR USE WHEN TRAINING COMBAT MEDICAL PERSONNEL REF B TCCC INFORMATION IS PUBLISHED IN THE PREHOSPITAL TRAUMA LIFE SUPPORT MANUAL PHTLS MILITARY EDITION WHICH IS UPDATED EVERY FOUR YEARS DEPARTMENT OF DEFENSE DOD APPROVED TCCC TRAINING CURRICULA ARE UPDATED ON THE DOD WEBSITE MHS OSD MIL EDUCATION AND TRAINING TCCC ASPX AS THE TCCC GUIDELINES CHANGE GOAL ELIMINATE PREVENTABLE LOSS OF LIFE ON THE BATTLEFIELD IN ACCOMPLISHING THIS GOAL THE MOST RECENT TCCC GUIDELINES APPROVED BY DOD ARE TO BE UTILIZED AS A MEANS OF PROVIDING STANDARDIZED TRAINING TO THE MARINE CORPS AND IMPROVING FIRST RESPONDER CARE AT THE POINT OF INJURY HISTORY OF TCCC a It is important to realize that civilian trauma care in a non tactical setting is dissimilar to trauma care in a combat environment TCCC and CLS are an attempt to better prepare medical and non medical personnel for the unique factors associated with combat trauma casualties b Historical data shows that 90% of combat wound fatalities die on the battlefield before reaching a military treatment facility This fact illustrates the importance of first responder care at the point of injury c TCCC was originally a US Special Operations research project which was composed of trauma management guidelines focusing on casualty care at the point of injury d TCCC guidelines are currently used throughout the US Military and various allied countries e TCCC guidelines were first introduced in 1996 for use by Special Operations corpsmen medics and pararescue PJs f The TCCC guidelines are currently endorsed by the American College of Surgeons Committee on Trauma and the National Association of Emergency Medical Technicians The guidelines have been incorporated into the Prehospital Trauma Life Support PHTLS text since the 4th edition STUDENT CURRICULUM Tactical Combat Casualty Care CLS Overview Identify Medical Fundamentals Manage Hemorrhage Maintain Casualty Airway Manage Penetrating Chest Injuries Manage Hemorrhagic Shock Manage Burn Casualties Perform Splinting Techniques Administer Battlefield Medications Perform Casualty Movement Perform Combat Lifesaver Triage Perform Combat Lifesaver Care

**Journal of Special Operations Medicine ,2007      Manuals Combined: U.S. Marine Corps Basic Reconnaissance**

**Course (BRC) References** , Over 5 300 total pages MARINE RECON Reconnaissance units are the commander s eyes and ears on the battlefield They are task organized as a highly trained six man team capable of conducting specific missions behind enemy lines Employed as part of the Marine Air Ground Task Force reconnaissance teams provide timely information to the supported commander to shape and influence the battlefield The varying types of missions a Reconnaissance team conduct depends on how deep in the battle space they are operating Division Reconnaissance units support the close and distant battlespace while Force Reconnaissance units conduct deep reconnaissance in support of a landing force Common missions include but are not limited to Plan coordinate and conduct amphibious ground reconnaissance and surveillance to observe identify and report enemy activity and collect other information of military significance Conduct specialized surveying to include underwater reconnaissance and or demolitions beach permeability and topography routes bridges structures urban rural areas helicopter landing zones LZ parachute drop zones DZ aircraft forward operating sites and mechanized reconnaissance missions When properly task organized with other forces equipment or personnel assist in specialized engineer radio and other special reconnaissance missions Infiltrate mission areas by necessary means to include surface subsurface and airborne operations Conduct Initial Terminal Guidance ITG for helicopters landing craft parachutists air delivery and re supply Designate and engage selected targets with organic weapons and force fires to support battlespace shaping This includes designation and terminal guidance of precision guided munitions Conduct post strike reconnaissance to determine and report battle damage assessment on a specified target or area Conduct limited scale raids and ambushes Just a SAMPLE of the included publications BASIC RECONNAISSANCE COURSE PREPARATION GUIDE RECONNAISSANCE RECON TRAINING AND READINESS T R MANUAL RECONNAISSANCE REPORTS GUIDE GROUND RECONNAISSANCE OPERATIONS GROUND COMBAT OPERATIONS Supporting Arms Observer Spotter and Controller DEEP AIR SUPPORT SCOUTING AND PATROLLING Civil Affairs Tactics Techniques and Procedures MAGTF Intelligence Production and Analysis Counterintelligence Close Air Support Military Operations on Urbanized Terrain MOUT Convoy Operations Handbook TRAINING SUPPORT PACKAGE FOR CONVOY SURVIVABILITY Convoy Operations Battle Book Tactics Techniques and Procedures for Training Planning and Executing Convoy Operations Urban Attacks *Florida Regional Common EMS Protocols* Michael Hohl,Jones & Bartlett Publishers,2004 The protocols are divided into adult and pediatric section each with three parts Supportive Care Actions authorized For The EMS or paramedic that are supportive in nature ALS Level 1 Actions authorized only For The paramedic prior to physician contact ALS Level 2 Actions authorized only For The paramedic that require a physician consult This protocol manual is part of the medical direction program for participating Emergency Medical Services EMS agencies in Florida and as such The medical treatment protocols are designed as clinical guides for EMS providers the protocol manual in its entirety is designed to be a one stop source of information for on scene patient care medical reference and training purposes The medical treatment protocols outline care for a typical case and follow the case

step by step the treatment protocols are divided into adult and pediatric sections each with three parts Supportive Care Actions authorized For The EMS or Paramedic that are supportive in nature EMT BLS and Paramedic BLS and ALS actions are specified within each of these protocols ALS Level 1 Actions authorized only For The Paramedic prior to physician contact ALS Level 2 Actions authorized only For The Paramedic that require a physician consult *USMC FIELD MEDICAL SERVICE TECHNICIAN FMST TCCC Manual* , The FIELD MEDICAL SERVICE TECHNICIAN provides medical and dental services for personnel in field units also provides technical and administrative assistance to support the mission and functions of the Navy and Marine Corps field units Maintains organizational level AMAL s and ADAL s Assits in the procurement and distribution of supplies and equipment for field use and combat areas Maintains field treatment facilities Renders first aid and emergency medical and dental treatment to unt personnel combatants Coordinates and performs medical evacuation procedures Ensures observance of field sanitary measures and preventive measures in specialized warfare Conducts first aid and health education training programs

**COURSE DESCRIPTION** During this 8 week course you will have a mix of classroom and field training Emphasis is placed on learning field medicine by using the principles of Tactical Combat Casualty Care TCCC This includes familiarization with USMC organization and procedures logistics and administrative support in a field environment Additionally training will include general military subjects individual and small unit tactics military drills physical training conditioning and weapons familiarization with the opportunity to fire the rifle Completion of FMST results in the student receiving Navy Enlisted Classification HM 8404 MEDICAL SPECIFIC CONTENT

**PREVENTIVE MEDICINE** Treat Dehydration FMST 201 Treat Environmental Heat Injuries FMST 202 Manage Environmental Cold Injuries FMST 203 Perform Care of the Feet FMST 204 Perform Water Purification for Individual Use FMST 205 Supervise Field Waste Disposal FMST 206 Manage Envenomation Injuries FMST 207 Review Questions

**COMBAT MEDICINE** Introduction to Tactical Combat Casualty Care FMST 401 Manage Shock Casualties FMST 402 Manage Hemorrhage FMST 403 Maintain Airway FMST 404 Perform Emergency Cricothyroidotomy FMST 405 Manage Respiratory Trauma FMST 406 Manage Abdominal Injuries FMST 407 Manage Musculoskeletal Injuries FMST 408 Manage Head Neck and Face Injuries FMST 409 Tactical Fluid Resuscitation FMST 410 Perform Casualty Assessment FMST 411 Medication Appendix Review Questions

**COMPONENTS OF FIELD MEDICINE** Blast Related Injuries FMST 501 Traumatic Brain Injury TBI FMST 502 Manage Burn Casualties FMST 503 Conduct Triage FMST 504 Coordinate Casualty Tactical Evacuation FMST 505 Perform Aid Station Procedures FMST 506 Medical Support for Military Operations in Urban Terrain MOUT FMST 507 Review Questions

U.S. Army Special Warfare Medical Group SPECIAL OPERATIONS COMBAT MEDICAL SKILLS SUSTAINMENT COURSE: Tactical Combat Casualty Care (TCCC) Training For The SOF Advanced Tactical Practitioner (ATP) , Scope a USSOCOM s principle function is to prepare SOF to carry out assigned missions This responsibility is derived from US Code Title 10 Section 167 In addition to organizing training and equipping SOF for unique missions medical

education is fundamental to fulfilling this law Title 10 explicit responsibilities include development of strategy doctrine tactics conducting specialized courses of medical instruction for commissioned and non commissioned officers and monitoring the medical education and professional certification of officers and enlisted personnel USSOCOM's medical education and certification responsibilities are inherent responsibilities of developing strategy doctrine and tactics b The Commander United States Special Operations Command CDRUSSOCOM has the service like responsibility of providing joint training and education venues that specialize in the art and science of joint Special Operations and its medical support These efforts complete the education and training picture within the Department of Defense DOD While each of the Services and the joint community provide education and training to fill a particular niche i e naval warfare air warfare joint warfare etc the Joint Special Operations Medical Training Center JSOMTC within USSOCOM and the Air Force's Pararescue PJ course provides training to fill the medical niche of joint SOF core task requirements SOF medical training and certification is force wide designed to initiate maintain and or enhance medical skills of those SOF medics and non medics who are required to perform the unique global multi discipline mission of USSOCOM Within the parameters of this directive as outlined by first reference Glossary Section III USSOCOM's primary responsibility is the medical education and training and certification of SOF A secondary responsibility is the training and education of select DOD interagency and international military personnel in the requirements capabilities and limitations of joint special operations organizations Fostering a mutual understanding ensures the proper application of SOF and the enhancement of joint combined and interagency medical operations General In support of the Global War On Terrorism GWOT Special Operations medical personnel often find themselves providing care for both trauma and non traumatic medical emergencies beyond the Forward Edge of the Battlefield Area Forward Line Of Troops often in non linear environments that may be far forward of any supporting medical infrastructure This directive identifies the authority mission command relationships functions and responsibilities of the United States Special Operations Command as directed under Section 167 Title 10 of US Code to provide SOF medics with the required skill sets In order to define and administer this SOF Medical skill set USSOCOM has established a SOF Emergency Medical Services EMS State that is administered by the Command Surgeon Medics who successfully complete the required academic requirements as defined within this directive will thus be known as SOF Advanced Tactical Practitioners ATP Trauma Manual, Fourth Edition Ernest E. Moore, Kenneth L. Mattox, David V. Feliciano, 2003 This concise bulleted manual guides surgeons through the appropriate clinical management of a wide array of situations Distilled from the leading text in trauma surgery this pocket guide includes recommendations for anesthesia pre and postoperative preparation and a new section on the most common laparoscopic and endoscopic procedures 67 illustrations Oxford Handbook of Pre-Hospital Care Ian Greaves, Keith Porter, 2006-12-21 The Oxford Handbook of Pre hospital Care provides the reader with authoritative evidence based advice on the assessment and management of pre hospital care emergencies It is designed to provide information for

all immediate care practitioners including doctors paramedics emergency care practitioners nurses and voluntary aid society members The Oxford Handbook format and its pocket size make its content readily accessible and it can be carried easily in jackets or other personal protective clothing Each section defines the important clinical features of the named condition and includes boxes containing essential advice The treatment section incorporates national and international guidelines and protocols where available and reflects contemporary best practice Topics include scene safety personal protective equipment basic and advanced life support head injuries chest injuries abdominal and pelvic injuries spinal injuries musculoskeletal injuries medical emergencies mass gathering incidents major incidents burns and related problems The authors have broad experience in pre hospital care including civilian and military practice in various fields including medical emergencies road traffic collisions entrapments ballistic trauma and major incidents This is the essential quick reference guide to pre hospital medicine

Armed Conflict Injuries to the Extremities Alexander Lerner, Michael Soudry, 2011-04-28 This book is designed to meet the continued need to re learn the principles of treatment of complex war injuries to the extremities in order to minimize post traumatic and post treatment complications and optimize functional recovery Most of the chapters are based on the unique experience gained in the treatment of military personnel who have suffered modern combat trauma and civilian victims of terror attacks at a single large level 1 trauma center The remaining chapters present the experience of leading international authorities in trauma and reconstructive surgery A staged treatment protocol is presented ranging from primary damage control through to definitive functional limb reconstruction The organization of medical aid anesthesiology diagnostic imaging infection prophylaxis and management of complications are reviewed and a special chapter is devoted to the challenging dilemma of limb salvage versus amputation in the treatment of limbs at risk



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lms filter basically we predict the  $x(n)$  sample using past samples  $x(n-i)$  where  $k$  is the lms filter order

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we find ar model from signal using the yule walker method solving the yule walker equations we can determine the parameters for an all pole filter that when excited with white noise will produce an ar signal whose statistics match those of the given signal  $x$  once again this is called autoregressive modeling

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