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# PHTLS Study Guide

Inadequate perfusion/energy production at the cellular level. - answer Shock

Why are case studies important in the hospital? - answer It gives us evidence based practice.

What is the definition of anaerobic metabolism? - answer Without oxygen

When does hemorrhage control start in the trauma assessment? - answer Right away.

Why do we needle decompress somebody? - answer If there is an increase work of breathing/absent lung sounds/ inadequate perfusion

What is the easiest way to open the airway of a trauma patient? - answer Jaw thrust

What is the problem with intubation? - answer It requires a lot of practice.

When you arrive on scene and find your patient with their airway full of blood, how long should you suction for? - answer Until the airway is clear from blood. Ten seconds

What is the best way to confirm you have the ET tube in place? - answer End tidal

When should you start the secondary assessment on a trauma patient? - answer When time and situation allows

What are some pre-arrival factors you should be considering upon arrival to your designated call? - answer Time of day, weather, location, hazards and possible additional needs

What is the main reason for a primary assessment on a trauma patient? - answer To identify and treat immediate life threats

What is the most common type of shock and what is the main cause of shock? - answer Hemorrhagic shock due to either uncontrolled internal/external hemorrhage

When wanting to get a patient off scene quickly what is a piece of equipment that is best suited for this situation? - answer Scoop stretcher

What is the first thing that should be treated on a trauma patient? - answer XABCDE

# Phtls Study Guide 2015

**Volker Wenzel**



## **Phtls Study Guide 2015:**

*Fundamentals of Paramedic Practice* Sam Willis, Roger Dalrymple, 2019-08-27 Driven by changes to clinical practice new evidence based research and shifts in global economics and politics the field of paramedic science is rapidly evolving This new edition of *Fundamentals of Paramedic Practice* offers students and recently qualified practitioners an accessible and comprehensive introduction to paramedic science and pre hospital care providing expert and up to date guidance on the essential theories and real world practice of this dynamic area of emergency medicine Assuming no prior knowledge of the subject this user friendly textbook provides broad and inclusive coverage of topics including professionalism law and ethics assessment skills research methods pharmacology and more Contributions from experienced paramedics and clinicians contemporary case studies full colour illustrations and powerful pedagogical tools help students gain a thorough understanding of the essential components of paramedic practice Employs a comprehensive multidisciplinary approach to the study of paramedic practice presenting theoretical and clinical topics in a straightforward and student friendly manner New chapters on toxicology medical terminology and low acuity care in paramedicine with an increased focus on mental health Includes new end of chapter learning activities and quizzes case studies and references charts and diagrams *Fundamentals of Paramedic Practice A Systems Approach* is an invaluable resource for undergraduate paramedic and emergency care students as well as qualified paramedics clinicians and educators seeking an authoritative reference on current practice

PHTLS Spanish: Soporte Vital de Trauma Prehospitalario National Association of Emergency Medical Technicians (NAEMT), 2015-03-05 PHTLS Soporte Vital de Trauma Prehospitalario octava edici n es el siguiente paso en la evoluci n del principal programa educativo de Trauma Prehospitalario Durante tres d cadas el PHTLS ha mejorado la calidad del cuidado del paciente traumatizado y ha salvado vidas La octava edici n del PHTLS contin a con la misi n de promover la excelencia en el manejo del paciente traumatizado en todos los proveedores involucrados en el cuidado prehospitalario por medio de una educaci n global Este programa legendario fue desarrollado a principios de la d cada de los ochenta del siglo pasado por la Asociaci n Nacional de T cnicos en Urgencias M dicas Association of Emergency Medical Technicians NAEMT con la cooperaci n del Comit para el Trauma del Colegio Americano de Cirujanos American College of Surgeons Committee on Trauma ACS COT El contenido m dico se revisa y actualiza de manera continua para que refl eje lo ltimo y lo m s actualizado del conocimiento y la pr ctica El PHTLS promueve el pensamiento cr tico como la base para proporcionar un cuidado de calidad Se fundamenta en la creencia de que los practicantes de los servicios m dicos de urgencia toman las mejores decisiones en benefi cio de sus pacientes cuando se les da una buena base de conocimiento y principios clave La octava edici n de PHTLS presenta un nuevo cap tulo Fisiolog a de la vida y la muerte que crea un entendimiento s lido de la fi siolog a de la vida y de la fi siopatolog a que puede llevar a la muerte Ese entendimiento es esencial para el proveedor del cuidado prehospitalario para que pueda tratar las anormalidades r pidamente en caso de encontrarlas en el paciente

traumatizado Para ordenar estos t tulos en M xico favor de llamar al 01 800 134 6720 Para ordenar en Am rica Central y del Sur favor de comunicarse con Intersistemas al 011800 134 6720 o visitar [www.rcp.dinsamex.com.mx](http://www.rcp.dinsamex.com.mx) EBOOK:

Assessment Skills for Paramedics Amanda Blaber,2016-02-16 This 2nd edition is the ideal resource for paramedics and student paramedics looking for a quick reference guide to help develop or refresh their assessment skills with up to date knowledge This handy pocket sized book can be used by students for exam revision by paramedics and emergency care staff en route to a call or clinicians who are working in other clinical environments such as urgent care centres to revisit key points and further refine their skills Divided into body systems the book takes the reader through the considerations and actions required for each type of emergency presentation The book also Takes an approach that mirrors current UK and international practice Features a cardiovascular chapter which includes sepsis red flag sepsis and The UK Sepsis Trust Pre hospital Sepsis Screening and Action Tool Uses red flags to highlight where immediate action may be needed and identifies appropriate actions to be taken Has been updated where applicable against the current Ambulance Clinical Guidelines and the National Institute for Health and Care Excellence Guidelines Considers the social ethical and legal factors that might impact on care Includes specific chapters in the specialist fields of paediatric assessment and neonatal assessment and care Has been updated for this 2nd edition with new chapters on the assessment of minor injuries and minor ailments Features extra web links for further reading at the end of chapters and a new book glossary Uses mnemonics cases and diagrams to demonstrate and reinforce key points with many new diagrams for this edition Written by experienced paramedics specialist health care professionals and doctors this book will enhance knowledge and encourage accurate timely and thorough assessment of patients across the lifespan This book clearly sets out and balances the critical unscheduled and urgent care assessment priorities for paramedic students and those who are looking to refresh their skills The content depth of discussion and signposting within the book clearly highlight and discuss critical points for the reader which are supported with appropriate supporting evidence We recommend this book to all of our paramedic students and it should be an essential purchase for all discerning paramedic students whether they are embarking on their studies or refreshing and updating their skills Mark Nevins Programme Leader Paramedic Practice Programme Teesside University UK This second edition draws on additional guidelines and best practice to elegantly illustrate the fundamental knowledge and skills required to undertake a comprehensive evidence based approach to patient assessment The book builds on the plethora of knowledge and understanding of patient assessment from common presentations through to complex specialisms which require a focused and often prompt response from the out of hospital care provider This book is ideally suited to the undergraduate paramedic student along with experienced paramedics wishing to review their assessment techniques John Donaghy Principal Lecturer and Professional Lead Paramedic Science University of Hertfordshire UK *National Registry Paramedic Study Questions* Steve Roberts,2015-08-17 If you re a paramedic student you ll find this book of questions and answers an essential resource

as you study for the National Registry Exam Steve Roberts a paramedic with more than forty years of experience wrote it based on a lifetime of knowledge experience and love for emergency medicine He shares hundreds of sample test questions to help students pass the National Registry Exam Divided into separate tests to promote learning the multiple choice and fill in the blank questions will equip you with the knowledge you need to pass the most important test of your life *Sanders' Paramedic Textbook* Mick J. Sanders, Kim McKenna, American Academy of Orthopaedic Surgeons (AAOS), 2024-01-17

Featuring current print and digital content engaging illustrations and photos and accessible technology Sanders Paramedic Textbook Sixth Edition Premier Package with Flipped Classroom provides comprehensive resources and spurs critical thinking for paramedic students The new edition has been reviewed and endorsed by the American Academy of Orthopaedic Surgeons AAOS and the National Association of EMS Physicians NAEMSP and its content meets or exceeds the scientific recommendations by the International Liaison Committee on Resuscitation ILCOR and is consistent with the ECC Guidelines as established by the American Heart Association and other resuscitation councils around the world Sanders robust resources for educators and students deliver teaching and learning solutions to best fit educators unique classroom needs Its single volume provides portability to learners while limiting repetition of content and its inclusion of detailed anatomy and physiology negate the need for additional reference texts Even more its emergency drug index incorporates detailed drug information in an easy to find location Developed by a renowned team of authors Sanders Paramedic Textbook Sixth Edition Premier Package with Flipped Classroom provides a comprehensive training program and curriculum to prepare students for long term success in the field and focuses on inclusion and diversity to engage every student Interested to hear what paramedic instructors and program coordinators think about the Sixth Edition Check out the reviews below from three of our early textbook reviewers Bill Comella Chris McLaughlin and Michael Simon Review Bill Comella Paramedic Program Coordinator First Responder Resiliency and Support Simulations Interactive Lectures Virtual Ride Alongs Lesson Guides 2025 2200 pages

**Current Therapy of Trauma and Surgical Critical Care - E-Book** Juan A. Asensio, Wayne J. Meredith, 2023-03-18 Drawing on the experience and knowledge of master world renowned trauma surgeons Current Therapy of Trauma and Surgical Critical Care 3rd Edition offers a comprehensive summary of optimal treatment and post operative management of traumatic injuries Ideally suited for everyday use this practical concise reference highlights the most important aspects of urgent surgical care from damage control to noninvasive techniques to chemical and biological injuries A focus on the surgical techniques required to manage even the most complex injuries makes it both an excellent resource for quick review before entering the operating room and a valuable review tool for board certification or recertification Covers the entire spectrum of Trauma Surgery and Surgical Critical Care from initial evaluation military and civilian field and trauma center evaluation and resuscitation to diagnosis operative and postoperative critical care and outcomes in nearly 100 print and 39 online exclusive chapters all newly streamlined to emphasize frontline procedural

treatment Features extensive new data and updates to Cardiac Thoracic Vascular and Military Surgery chapters plus numerous new intraoperative photographs and high quality line drawings that highlight the most important aspects of urgent surgical care Contains 14 new chapters including Innovations in Trauma Surgery Simulation Air Evacuation and Critical Care in Military Casualties REBOA Indications and Controversies Penetrating Extracranial Vertebral Artery Penetrating Arterio Venous Fistulas The Genomics of Profound Shock and Trauma ECMO and newer strategies such as nerve blocks for pain management to combat the opioid epidemic Incorporates a wealth of military knowledge from both recent and past military conflicts as well as from asymmetric warfare many of the authors and co authors have extensive past and present military experience Uses a consistent easy to follow chapter format throughout for quick and easy reference and review Reviews the essential principles of diagnosis and treatment as well as the specifics of surgical therapy making it useful for surgeons across all specialties Integrates evidence based practice guidelines into the text whenever possible as well as comprehensive utilization of the American Association for the Surgery of Trauma Organ Injury Scales AAST OIS Contains such a wealth of operative photographs and line drawings both in the printed version and many more in the electronic version that it could be considered an Atlas of Trauma Surgery An eBook version is included with purchase The eBook allows you to access all of the text figures and references with the ability to search customize your content make notes and highlights and have content read aloud

**Emergency Capnography** Hugh Greenbaum, 2024-08-12 This portable and practical pocket guide explains how capnography works both physiologically and electronically and helps clinical staff to apply the tool promptly and correctly and to interpret appropriately the numeric and graphic displays providing vital information when viewed in the context of the patient's clinical presentation history and other diagnostic data that will improve and enhance care Initial chapters explain how to interpret the data displayed in the context of various conditions and how the care provider may respond to that data Later chapters provide partial differential diagnoses based on the displayed capnometry data an algorithm for interpreting waveforms and clinical scenarios to illustrate the application of capnography in emergency medical practice Ensuring that the value of capnography can be maximized to the benefit of patients the book is an essential primer to capnography for those studying for and practicing within the emergency medical services and a convenient reference for other emergency department personnel

**AMLS German: Ein Beurteilungsbasierter Ansatz** NAEMT, 2017-07-26 Advanced Medical Life Support AMLS ist das führende Konzept für die akutmedizinische Versorgung von internistischen und neurologischen Patienten Es richtet sich an alle an der Behandlung von nicht traumatologischen Notfällen beteiligten Berufsgruppen vom Rettungssanitäter Notfallsanitäter und Notarzt am Notfallort bis zum Pflegepersonal und Arzt in der Notaufnahme Ziel ist eine rasche Einschätzung des Patienten bezüglich Behandlungsdringlichkeit und sofort notwendigen Maßnahmen treat first what kills first Außerdem werden Differentialdiagnosen strukturiert erarbeitet um die beste Therapie und geeignete Zieleinrichtung auszuwählen Was bietet die zweite deutsche Auflage Patientenversorgung state of the art Die

aktuelle AMLS Edition berücksichtigt alle relevanten gültigen Leitlinien und neuesten Forschungsergebnisse Sowohl Berufsanfänger als auch alte Hasen aller Berufsgruppen profitieren von der Struktur und Aktualität des Konzepts und dieses Buches Wiederholungsfragen sowie Zusammenfassungen der Kapitel und Putting It All Together Abschnitte untermauern Schlüsselkonzepte und verknpfen Informationen um die Leser und Kursteilnehmer beim Lernen zu unterstützen Szenarien bieten einen realistischen Kontext um das Erlernte anzuwenden und anhand eines Lösungsvorschlags seinen Wissenszuwachs zu überprüfen Warum AMLS Der Vorteil des Konzepts ist die klare Struktur in der Patientenbeurteilung Sie hilft in schwierigen Notfallsituationen einen klaren Kopf zu bewahren oder auch bei zunächst unklarem Beschwerdebild zu einer Verdachtsdiagnose zu finden und entsprechende Maßnahmen einzuleiten Gleichzeitig ist es ein klarer Pluspunkt wenn alle Mitglieder des Behandlungsteams das Konzept mit seinen Ablufen kennen und so bei der Patientenversorgung an einem Strang ziehen Das AMLS Konzept schließt die Lücke zwischen Konzepten zur Versorgung von Trauma und pädiatrischen Patienten sowie Reanimationskursen Warum dieses Buch Dieses Buch ist das offizielle Kursbuch zu den AMLS Kursen welche 1999 von der National Association of Emergency Medical Technicians NAEMT zusammen mit der National Association of EMS Physicians NAEMSP entwickelt wurden Mittlerweile sind AMLS Kurse weltweit etabliert seit 2010 auch in Deutschland miteinander kontinuierlich wachsenden Zahl von Anwendern

**AMLS Spanish: Soporte vital medico avanzado** National Association of Emergency Medical Technicians (NAEMT), 2016-07-06 Soporte vital medico avanzado AMLS es el principal curso para los profesionales de la atención prehospitalaria médica avanzada para la evaluación y el tratamiento de los padecimientos médicos más comunes Se enseña en todo el mundo desde 1999 AMLS fue el primer programa de educación de los SME completamente dirigido al mejor manejo de los pacientes en crisis médicas AMLS es el único libro de texto avalado por la NAEMT para su uso en el curso de soporte vital medico avanzado que hace nfasis en la evaluación por la vía del AMLS es la guía más importante para la evaluación de pacientes con padecimientos médicos La segunda edición de AMLS se distingue por Características generales Los escenarios de pensamiento crítico proporcionan a los estudiantes un contexto real para la aplicación del conocimiento presentado en el capítulo incluyendo una solución del escenario Los estudiantes serán capaces de evaluar revisar y distinguir el posible diagnóstico del paciente Las secciones Preguntas de repaso Resumen y Conjuntando todo refuerzan los Términos clave y repiten la información para ayudar a los estudiantes a retener lo que han aprendido Avalado por la National Association of EMS Physicians este curso enfatiza el uso del proceso de la evaluación AMLS una herramienta de evaluación sistemática que permite a los profesionales de la salud diagnosticar a pacientes médicos con precisión urgente Contenido médico actualizado La cobertura de las modalidades básicas y avanzadas del tratamiento incorpora los últimos acontecimientos de investigación que son adecuados para principiantes y proveedores de cuidado prehospitalario experimentados enfermeros de cuidados críticos y de emergencias así como médicos de urgencias Una actualización del proceso de la evaluación AMLS El camino de la revisión de la evaluación AMLS proporciona un enfoque sistem

tico a la evaluación de un paciente m dico as como orientaci n para los estudiantes de todos los niveles de la pr ctica

**Assessment Skills for Paramedics, 3e** Amanda Blaber, Graham Harris, 2021-09-17 Now in its third edition this highly acclaimed resource is the ideal guide for student and practicing paramedics looking to refresh and consolidate their assessment skills Assessment Skills for Paramedics has been thoroughly revised with fresh up to date knowledge and national guidance Divided into body systems and presented in a clear accessible format the book takes the reader through the considerations and actions required for each type of emergency presentation New to this edition Histories assessments and scenarios across multiple chapters Content covering the well being of the paramedic Chapters including the review of systems RoS approach A systematic format of primary and secondary survey in each chapter that relates to current practice Reflects updates to Ambulance Clinical Guidelines and the National Institute for Health and Care Excellence Guidelines and The Joint Royal Colleges Ambulance Liaison Committee guidelines Packed full of practical contemporary advice for all paramedics featuring An approach that mirrors current UK and international practice Consideration of the social ethical and legal factors that might impact on care Specific chapters in the specialist fields of paediatric assessment and neonatal assessment and care Written by experienced paramedics specialist health care professionals and doctors this book will enable readers to enhance their practical knowledge and to make accurate timely and thorough assessment of patients across the lifespan From those developing as students in the pre registration period to those in the post registration phase of their career this book is valuable asset to all Mark Willis Programme Lead BSc Hons Paramedic Science and Out of Hospital Care University of Sunderland UK This timely thoughtful well conceived and systematic text is the perfect companion to paramedic practise Andy Newton Immediate Past Chair College of Paramedics UK The writing is concise and to the point whilst at the same time covering all that is needed for safe and competent practice I would recommend this text for student paramedics and experienced practitioners alike Dr Simon Butler Senior Lecturer Course Leader for DipHE Paramedic Studies Anglia Ruskin University UK Amanda Blaber is a Senior Lecturer at the School of Sport and Health Sciences University of Brighton for the BSc Hons Paramedic Science course and an Honorary Fellow of the College of Paramedics Graham Harris is a Paramedic Consultant Educationalist He is a Fellow of the College of Paramedics and recipient of the Lifetime Achievement Award and formerly the National Education Lead for the College of Paramedics **AMLS French: Support Avance de vie Medicale** National Association of Emergency Medical Technicians (NAEMT), 2017-09-15 **AMLS Portuguese: Atendimento Pre-hospitalar as Emergencias Clínicas da NAEMT** National Association of Emergency Medical Technicians (NAEMT), 2017-08-23 **First Responder Care Essentials** Kris Lethbridge, Richard Pilbery, 2024-10-22 The second edition of First Responder Care Essentials brings together everything you ll need to know for your role as a Community First Responder Taking you step by step through the essential skills needed for patient care it is the ideal companion whether you re working towards a Level 3 First Responder Qualification or already qualified and in need



of a reference guide It encompasses a wide range of topics from communication and manual handling to trauma care and cardiac arrest management This updated edition also includes additional procedures with accompanying step by step images Key features include Full colour photographs demonstrating clinical skills and equipment usage Anatomical diagrams for better understanding Extended skills flags indicating appropriate practice levels Fully updated in line with latest legislation guidance and policy

**Case Studies in Emergency Medicine** Volker Wenzel,2023-09-08 In this book experienced emergency physicians describe in a way that is both suspenseful and instructive often dramatic and humanly touching emergency scene calls with which they have been confronted in the course of their professional lives Each case is discussed and finishes with a conclusion to help in future practice Emergency physicians and ambulance staff thus receive valuable tips for their own future work

PHTLS: Prehospital Trauma Life Support NAEMT,2015-10-01T00:00:00+02:00 Edizione italiana a cura di Alberto Adduci Il PHTLS Prehospital Trauma Life Support scritto dalla National Association of Emergency Medical Technicians NAEMT in collaborazione con l American College of Surgeons Committee on Trauma un indispensabile risorsa per l insegnamento e la formazione del personale dedito al trattamento preospedaliero dei pazienti traumatizzati Questo testo giunto alla settima edizione fornisce le linee guida per identificare e trattare le patologie che derivano da eventi traumatici e per organizzare in modo rapido ed efficiente il trasferimento del paziente verso il centro ospedaliero pi idoneo Questo manuale un indispensabile strumento di lavoro per medici infermieri studenti del Corso di laurea in Medicina e Chirurgia e per tutti coloro che desiderano impegnarsi a svolgere con competenza e professionalit il difficile mestiere del soccorritore

Caring for Veterans and Their Families: A Guide for Nurses and Healthcare Professionals Rita F D'Aoust,Alicia Gill Rossiter,2021-11-08 Of the approximately 20 million veterans of the U S armed forces less than half utilize the Veteran s Health Administration health care system That means the majority of veterans are receiving care from nurses and healthcare professionals who may not be trained in treating or caring for patients who have served in the military This unique book guides nurses and healthcare professionals through the specific set of needs veterans can present including but not limited to PTSD Topics covered include defining military culture and how to apply that knowledge to provide informed treatment transitioning from service to civilian life and the many challenges expected during re adjustment and re entry recognizing and treating substance use disorders identifying suicidal behaviors and warning signs long term care for elderly veterans and many more topics unique to the healthcare of veterans

*Penetrating Trauma* George C. Velmahos,Elias Degiannis,Dietrich Doll,2016-08-31 This book provides clear practical guidance on all aspects of the surgical treatment of penetrating trauma and aims to foster the type of strategic thinking that can save patients lives The coverage encompasses prehospital care penetrating injuries to various body regions and specific organs orthopedic injuries peripheral arterial injuries injuries to special groups of patients including children and the elderly military injuries and a range of other topics Based on their extensive personal experience expert authors provide step by step instructions on evaluation surgical

techniques and management of perioperative problems Tips and tricks and technical pearls are highlighted and each chapter includes a list of the most important points to observe This second edition of Penetrating Trauma has been extensively revised and updated with inclusion of some entirely new chapters to take into account the most recent trends in resuscitation diagnostics and treatment It will be an ideal resource for those looking for practical solutions on how to treat injuries surgically

Trauma Anesthesia Charles E. Smith, 2015-04-09 Trauma patients present a unique challenge to anesthesiologists since they require resource intensive care often complicated by pre existing medical conditions This fully revised new edition focuses on a broad spectrum of traumatic injuries and the procedures anesthesiologists perform to care for trauma patients perioperatively surgically and post operatively Special emphasis is given to assessment and treatment of co existing disease including surgical management of trauma patients with head spine orthopaedic cardiac and burn injuries Topics such as training for trauma including use of simulation and hypothermia in trauma are also covered Six brand new chapters address pre hospital and ED trauma management imaging in trauma surgical issues in head trauma and in abdominal trauma anesthesia for oral and maxillofacial trauma and prevention of injuries The text is enhanced with numerous tables and 300 illustrations showcasing techniques of airway management shock resuscitation echocardiography and use of ultrasound for the performance of regional anesthesia in trauma

*AMLS United Kingdom: Advanced Medical Life Support* NAEMT, 2018-05-01 Advanced Medical Life Support Second Edition is the leading course for prehospital practitioners in the advanced medical assessment and treatment of commonly encountered medical conditions Taught throughout the world since 1999 Advanced Medical Life Support AMLS was the first emergency medical services education program that fully addressed how best to manage patients in medical crises AMLS is the only textbook approved for use by NAEMT's Advanced Medical Life Support course which emphasizes the AMLS Assessment Pathway the most important guide for assessing patients with medical conditions The United Kingdom edition of AMLS is enhanced by Key Features Critical thinking scenarios give students a genuine context for the application of the knowledge presented in the chapter including a scenario solution Students are able to assess review and discern the possible diagnosis of the patient Chapter review questions chapter summaries and Putting It All Together sections reinforce key concepts and tie information together helping students retain what they have learned Endorsed by the National Association of EMS Physicians and the United Kingdom College of Paramedics the course emphasises the use of the AMLS Assessment Pathway a systematic assessment tool that enables healthcare practitioners to diagnose medical patients with urgent accuracy Current Medical Content Coverage of basic and advanced treatment modalities incorporate the latest research developments that are suitable for both beginning and experienced prehospital care providers emergency and critical care nurses and emergency doctors An Updated AMLS Assessment Pathway The revised AMLS Assessment Pathway provides a systematic approach to the assessment of a medical patient and even more direction for students at all levels of practice

**Sanders' Paramedic Textbook includes Navigate**

**Advantage Access** Mick J. Sanders, Kim McKenna, American Academy of Orthopaedic Surgeons (AAOS), 2018-08-31 Sanders Paramedic Textbook Fifth Edition reflects the 2015 ECC and CPR guidelines and meets and exceeds the National EMS Education Standard for the Paramedic level Based on current medical evidence and written at a level that elicits higher order thinking the Fifth Edition provides a comprehensive learning tool for paramedic students and a reliable desk reference for emergency physicians

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