

Pacing Guide Human Anatomy Physiology

The second edition of *Emergency and Trauma Care for Nurses and Paramedics* provides the most up-to-date and comprehensive coverage of clinical procedures and issues encountered in contemporary emergency care in Australia and New Zealand. Written by leading academics and clinicians, this fully revised and updated edition follows the patient's journey from pre-hospital retrieval to definitive care. With a strong focus on multidisciplinary care, this evidence-based emergency and trauma resource will appeal to pre-hospital care providers, rural, remote and urban emergency nurses and allied health professionals, as well as disaster management and interfacility transport staff. Essential concepts are covered in a logical order, commencing with: An introduction to emergency professions and professional issues Clinical and health systems Patient presentations ordered by body system as well as toxicology, envenomation, ocular, environmental emergencies and unique population groups Major trauma assessment and management and end-of-life care information and considerations. *Emergency and Trauma Care for Nurses and Paramedics 2e* continues to be the pre-eminent resource for students preparing to enter the emergency environment and for clinicians seeking a greater understanding of multidisciplinary care from retrieval through to rehabilitation. A cultural safety approach is included throughout - addressing cultural diversity, beliefs and values and focusing on Aboriginal and Torres Strait Islander health and Māori health Essentials outline the main points addressed in each chapter Practice tips throughout assist with communication skills, procedures and assessment Case studies are supported by questions and answers to encourage active learning New online resources available on Evolve, including over 30 new case studies with paramedic-specific questions. Highlighted skills - cross references to the Clinical Skills chapter throughout text Over 30 new case studies Patient journey from pre-hospital and emergency-specific case studies Critical thinking questions at the end of chapters Chapter 35 Obstetric emergencies now includes 'Supporting a normal birth'.

Describes a new approach to yoga designed to improve fitness and demonstrates a variety of poses and movements

With its unique, singular focus on the clinical aspect of cardiac arrhythmias, *Clinical Arrhythmology and Electrophysiology: A Companion to Braunwald's Heart Disease* makes it easy to apply today's most up-to-date guidelines for diagnosis and treatment. An expert author team provides clear, clinically focused guidance on all types of cardiac arrhythmias, including practical techniques for managing complex patients. Find the information you need quickly with a consistent organization in all chapters, written to a template that shows every arrhythmia type in a similar manner. Access the fully searchable contents online at www.expertconsult.com, in addition to downloadable images and dynamic video clips. Fully understand the rationale for treatment of specific arrhythmias with practical techniques that are grounded in the most recent basic science. Stay up to date with new chapters on molecular mechanisms of cardiac electrical activity, cardiac ion channels, ventricular tachycardia in nonischemic dilated cardiomyopathy, epicardial ventricular tachycardia, ventricular arrhythmias in hypertrophic cardiomyopathy, ventricular arrhythmias in inherited channelopathies, ventricular arrhythmias in congenital heart disease, atrial arrhythmias in congenital heart disease, and complications of catheter ablation of cardiac arrhythmias. View videos of 27 key techniques online, including optical mapping of reentrant ventricular arrhythmias, 3-dimensional mapping of arrhythmias using different mapping and navigation modalities, and fluoroscopy images illustrating techniques for electrophysiologic catheter positioning, atrial septal puncture, and pericardial access. Gain a new understanding of hot topics such as mechanisms of arrhythmias, electrophysiologic testing, mapping and navigation modalities, ablation energy sources, sinus node dysfunction, conduction disturbances, atrial tachyarrhythmias, preexcitation syndromes and

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all types of ventricular and supraventricular tachycardias. Tackle the clinical management of cardiac arrhythmias with confidence with the most up-to-date guidance from the experts you trust. Your purchase entitles you to access the web site until the next edition is published, or until the current edition is no longer offered for sale by Elsevier, whichever occurs first. If the next edition is published less than one year after your purchase, you will be entitled to online access for one year from your date of purchase. Elsevier reserves the right to offer a suitable replacement product (such as a downloadable or CD-ROM-based electronic version) should access to the web site be discontinued. This is the first comprehensive study guide covering all aspects of pediatric critical care medicine. It fills a void that exists in learning resources currently available to pediatric critical care practitioners. The major textbooks are excellent references, but do not allow concise reading on specific topics and are not intended to act as both text and study guide. There are also several handbooks available, but these are usually written for general pediatric residents and lack the advanced physiology and pathophysiology required for the higher level pediatric critical care practitioner

For undergraduate/graduate animal science or equine studies courses at the levels, *The Horse, 2/e* provides in-depth discussions of equine biology, nutrition, genetics, reproduction, health, and management--with an emphasis on anatomy and physiology, and the care of legs and feet, that will help students assess injuries.

The student edition of *The Royal Marsden Manual of Clinical Nursing Procedures* has been the definitive, market-leading textbook of clinical nursing skills for fifteen years. This internationally best-selling title sets the gold standard for nursing care, providing the procedures, rationale, and guidance required by pre-registration students to deliver clinically effective, patient-focused care with expertise and confidence. With over two-hundred detailed procedures which reflect the skills required to meet *The Standards of Proficiency for Registered Nurses (NMC 2019)*, this comprehensive manual presents the evidence and underlying theory alongside full-colour illustrations and a range of learning activities designed to support student nurses in clinical practice. Loved and trusted by millions, *The Royal Marsden Manual of Clinical Nursing Procedures, Student Edition* continues to be a truly indispensable textbook for students, and includes coverage of patient assessment and discharge planning, communication, infection prevention and control, perioperative care, wound management, nutrition, diagnostic testing, medicines management, and much more. Learning features in this revised tenth edition include: Learning outcomes – summarise the focus of the information in each chapter Learning in practice – asks you to consider issues within your practice environment Case studies – provide learning around a particular patient scenario Clinical applications – ask you to consider how you would apply your knowledge to a clinical situation Stretch activities – challenge you with more nuanced, advanced issues to reflect upon Many of the features in the book are relevant to trainee nursing associates, especially when used in conjunction with supervision from academic and clinical teachers. A companion website to this title is available at www.royalmarsdenmanual.com/student10e

Your must-have bench reference for cardiac electrophysiology is now better than ever! This globally recognized gold standard text provides a complete overview of clinical EP, with in-depth, expert information that helps you deliver superior clinical outcomes. In this updated 5th Edition, you'll find all-new material on devices, techniques, trials, and much more – all designed to help you strengthen your skills in this fast-changing area and stay on the cutting edge of today's most successful cardiac EP techniques. Expert guidance from world authorities who contribute fresh perspectives on the challenging clinical area of cardiac electrophysiology. New focus on clinical relevance throughout, with reorganized content and 15 new chapters. New coverage of balloons, snares, venoplasty, spinal and neural stimulation, subcutaneous ICDs and leadless pacing, non-CS lead implantation, His bundle pacing, and much more. New sections on cardiac anatomy and physiology and

imaging of the heart, a new chapter covering radiography of devices, and thought-provoking new information on the basic science of device implantation. State-of-the-art guidance on pacing for spinal and neural stimulation, computer simulation and modeling, biological pacemakers, perioperative and pre-procedural management of device patients, and much more.

Cardiac Electrophysiology: From Cell to Bedside puts the latest knowledge in this subspecialty at your fingertips, giving you a well-rounded, expert grasp of every cardiac electrophysiology issue that affects your patient management. Drs. Zipes, Jalife, and a host of other world leaders in cardiac electrophysiology use a comprehensive, multidisciplinary approach to guide you through all of the most recent cardiac drugs, techniques, and technologies. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Compatible with Kindle®, nook®, and other popular devices. Get well-rounded, expert views of every cardiac electrophysiology issue that affects your patient management from preeminent authorities in cardiology, physiology, pharmacology, pediatrics, biophysics, pathology, cardiothoracic surgery, and biomedical engineering from around the world. Visually grasp and easily absorb complex concepts through an attractive full-color design featuring color photos, tables, flow charts, ECGs, and more! Integrate the latest scientific understanding of arrhythmias with the newest clinical applications, to select the right treatment and management options for each patient. Stay current on the latest advancements and developments with sweeping updates and 52 NEW chapters - written by many new authors - on some of the hottest cardiology topics, such as new technologies for the study of the molecular structure of ion channels, molecular genetics, and the development of new imaging, mapping and ablation techniques. Get expert advice from Dr. Douglas P. Zipes - a leading authority in electrophysiology and editor of Braunwald's Heart Disease and the Heart Rhythm Journal - and Dr. Jose Jalife - a world-renowned leader and researcher in basic and translational cardiac electrophysiology. Access the full text online at Expert Consult, including supplemental text, figures, tables, and video clips.

Comprehensive guide to cardiac electrophysiology covering diagnosis and management of different types of arrhythmia. Highly illustrated with nearly 300 images and tables.

Handbook of Cardiac Anatomy, Physiology, and Devices Springer Science & Business Media

Cardiovascular disease is the major cause of morbidity and mortality worldwide. While the past 40 years have brought major progress in cardiac valve repair and replacement, there remain large patient populations that do not receive such therapies. This, in turn, implies a great need for future basic, applied, and clinical research and, ultimately, therapeutic developments. Heart Valves is a state-of-the-art handbook dedicated to: 1) cardiac valve anatomy, 2) models for testing and research methods; 3) clinical trials; and 4) clinical needs and applications.

With its unique, singular focus on the clinical aspect of cardiac arrhythmias, **Clinical Arrhythmology and**

Electrophysiology: A Companion to Braunwald's Heart Disease makes it easy to apply today's most up-to-date guidelines for diagnosis and treatment. An expert author team provides clear, clinically focused guidance on all types of cardiac arrhythmias, including practical techniques for managing complex patients. Find the information you need quickly with a consistent organization in all chapters, written to a template that shows every arrhythmia type in a similar manner. Access the fully searchable contents online at www.expertconsult.com, in addition to downloadable images and dynamic video clips. Fully understand the rationale for treatment of specific arrhythmias with practical techniques that are grounded in the most recent basic science. Stay up to date with new chapters on molecular mechanisms of cardiac electrical activity, cardiac ion channels, ventricular tachycardia in nonischemic dilated cardiomyopathy, epicardial ventricular tachycardia, ventricular arrhythmias in hypertrophic cardiomyopathy, ventricular arrhythmias in inherited channelopathies, ventricular arrhythmias in congenital heart disease, atrial arrhythmias in congenital heart disease, and complications of catheter ablation of cardiac arrhythmias. View videos of 27 key techniques online, including optical mapping of reentrant ventricular arrhythmias, 3-dimensional mapping of arrhythmias using different mapping and navigation modalities, and fluoroscopy images illustrating techniques for electrophysiologic catheter positioning, atrial septal puncture, and pericardial access. Gain a new understanding of hot topics such as mechanisms of arrhythmias, electrophysiologic testing, mapping and navigation modalities, ablation energy sources, sinus node dysfunction, conduction disturbances, atrial tachyarrhythmias, preexcitation syndromes and all types of ventricular and supraventricular tachycardias.

TASER® Conducted Electrical Weapons are rapidly replacing the club for law-enforcement control of violent subjects within many countries around the globe. A TASER CEW is a hand-held device that delivers a 400-volt pulse with a duration tuned to control the skeletal muscles without affecting the heart at a distance of up to 6.5 meters over tiny wires. If necessary, it begins with an arcing voltage of 50,000 V to penetrate thick clothing; the 50,000 V is never delivered to the body itself. Due to the widespread usage of these devices and the widespread misconceptions surrounding their operation, this book will have significant utility. This volume is written for cardiologists, emergency physicians, pathologists, law enforcement management, corrections personnel, and attorneys.

Guide to Canine and Feline Electrocardiography offers a comprehensive and readable guide to the diagnosis and treatment of abnormal heart rhythms in cats and dogs. Covers all aspects of electrocardiography, from basics to advanced concepts of interest to specialists Explains how to obtain high-quality electrocardiograms Offers expert insight and guidance on the diagnosis and treatment of simple and complex arrhythmias alike Features numerous case examples, with electrocardiograms and Holter monitor recordings Shows the characteristics of normal and abnormal

heart rhythms in dogs and cats Includes access to a website with self-assessment questions and the appendices and figures from the book

The SOLARO Study Guide is designed to help students achieve success in school. It is a complete guide to be used by students throughout the school year for reviewing and understanding course content, and for preparing for assessments. The content in Texas High School Biology is specifically aligned to the Texas state standards for those who intend to have students complete biology by the end of high school. Each Class Focus includes the following sections: Structure and Function of Living Things; Genetics; Evolution and Classification; Biological Macromolecules and Metabolism; Biological Systems; and Ecosystems. To create this book, teachers, curriculum specialists, and assessment experts have worked closely to develop the instructional pieces that explain each of the key concepts for the course. The practice questions and sample tests have detailed solutions that show problem-solving methods, highlight concepts that are likely to be tested, and point out potential sources of errors. Enhanced treatment of concepts, more practice sections, and additional learning tools are found in the accompanying online version of SOLARO which may be accessed through the web or on mobile devices.

the Lillehei Heart Institute in their funding of illustrator Martin Finally, I would like to thank my family and friends for their support, who prepared several of the original figures; Gary support of my career and their assistance over the years. Without Williams for his computer expertise and assistance with such encouragement, I would not have even dreamed of taking on numerous figures; William Gallagher and Charles Soule, who such an ambitious project. Specifically, I would like to thank my wife and children who made sure the laboratory kept running smoothly while many of wife Marge, my three daughters, Maria, Jenna, and Hanna, my us were busy writing or editing; Dick Bianco for his support of morn Irene, and siblings, Mike, Chris, Mark, and Susan, for always our lab and this book project; the Chairman of the Department being there for me. On a personal note, some of my motivation for of Surgery, Dr. David Dunn, for his support and encouragement; working on this project comes from the memory of my father and the Biomedical Engineering Institute at the University of Anthony, who succumbed to sudden cardiac death at too early an Minnesota, headed by Dr. Jeffrey McCullough, who supported age, and from the positive encouragement of my uncle Tom Halicki, this project by funding the Cardiovascular Physiology Interest who is doing well seven years after a heart transplant. Group (most of whose members contributed chapters). Paul A. Iazzo, PhD Preface

. V Blood Pressure, Heart Tones, and Diagnoses Contributors
. ix George Bojanov

A revised new edition of this comprehensive critical care nursing text, developed with the Australian College of Critical Care Nurses (ACCCN). This second edition of ACCCN's Critical Care Nursing has been fully revised and updated for critical care nurses and students in Australia and New Zealand. As well as featuring the most recent critical care research data, current clinical practice, policies, procedures and guidelines specific to Australia and New Zealand, this new edition offers new and expanded chapters and case studies. The ultimate guide for critical care nurses and nursing students alike, ACCCN's Critical Care Nursing 2e has been developed in conjunction with the Australian College of Critical Care Nurses (ACCCN). As with the first edition, the text in ACCCN's Critical Care Nursing 2e reflects the expertise of ACCCN's highly-qualified team of local and international critical care nursing academics and clinicians. This authoritative nursing resource takes a patient-centred approach, encouraging practising critical care nurses and students to develop effective, high-quality critical care nursing practice. ACCCN's Critical Care Nursing 2e outlines the scope of critical care nursing, before detailing the core components and

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specialty aspects of critical care nursing, such as intensive care, emergency nursing, cardiac nursing, neuroscience nursing and acute care. Specific clinical conditions such as emergency presentations, trauma, resuscitation, and organ donation are featured to explore some of the more complex or unique aspects of specialty critical care nursing practice. expanded chapters for cardiovascular, respiratory and neurological content new chapters on Quality and Safety; Recovery and Rehabilitation; Psychological care; and Obstetric emergencies new case studies elaborate on relevant care issues critiques of recent research publications explore related topics practice tips highlight areas of care particularly relevant to daily clinical practice learning activities support knowledge, reflective learning and understanding Provides detailed coverage of a number of specialty areas within critical care nursing including intensive care, emergency nursing, cardiac nursing, neuroscience nursing and acute care. It will encourage students to be reflective practitioners, ethical decision makers and providers of evidence based care. Australian authors.

Parenting is not an idea, concept or belief. It's a process and therefore is neither static nor fixed in time that results in something special being created. The Parents' Handbook provides you with tools, techniques, insights and approaches to improve the way you communicate, to be available emotionally and physically and to successfully fulfill the different roles expected of you as a parent.

Part of the highly regarded Braunwald's family of cardiology references, Clinical Arrhythmology and Electrophysiology, 3rd Edition, offers complete coverage of the latest diagnosis and management options for patients with arrhythmias. Expanded clinical content and clear illustrations keep you fully abreast of current technologies, new syndromes and diagnostic procedures, new information on molecular genetics, advances in ablation, and much more.

This benchmark textbook for trainees and cardiologists throughout Europe and elsewhere is now fully revised and updated. Mapped closely to the European Society of Cardiology Core Curriculum, supplemented with videos and downloadable images and accompanied by a fully searchable online version with linked full reference listings. Enhanced with EBAC accredited CME self-assessment.

Cardiac Arrhythmia Management: A Practical Guide for Nurses and Allied Professionals provides a much-needed resource for nurses and other professionals who work directly with patients being treated for cardiac arrhythmias. Comprehensive in scope, the book covers cardiac arrhythmia conditions and the issues surrounding implantable devices from implant surgery to remote monitoring and troubleshooting. Edited by a team of doctors and nurses, the book addresses key patient management issues in a practical way. Fundamentals for understanding the anatomy and physiology of cardiac arrhythmias and the technology behind cardiac devices are covered in preliminary chapters followed by more specific chapters devoted to cardiac conditions and treatments. Both novices and experienced health professionals will find the book useful and easy to use on a day-to-day basis.

A singular focus on the clinical aspect of cardiac arrhythmias, this book makes it easy to apply today's most up-to-date guidelines for diagnosis and treatment. An expert author team provides clear, clinically focused guidance on all types of cardiac arrhythmias, including practical techniques for managing complex patients. Stay up to date with new chapters on molecular mechanisms of cardiac electrical activity, cardiac ion channels, ventricular tachycardia in nonischemic dilated

cardiomyopathy, epicardial ventricular tachycardia, ventricular arrhythmias in hypertrophic cardiomyopathy, ventricular arrhythmias in inherited channelopathies, ventricular arrhythmias in congenital heart disease, atrial arrhythmias in congenital heart disease, and complications of catheter ablation of cardiac arrhythmias. Including optical mapping of reentrant ventricular arrhythmias, 3-dimensional mapping of arrhythmias using different mapping and navigation modalities, and fluoroscopy images illustrating techniques for electrophysiologic catheter positioning, atrial septal puncture, and pericardial access. Gain a new understanding of hot topics such as mechanisms of arrhythmias, electrophysiologic testing, mapping and navigation modalities, ablation energy sources, sinus node dysfunction, conduction disturbances, atrial tachyarrhythmias, preexcitation syndromes and all types of ventricular and supraventricular tachycardias.

This textbook provides a succinct overview of cardiac surgery, with key concepts being emphasized throughout. An abundance of illustrations, intra-operative photographs, tables as well as information boxes, aids the reader to visualise, grasp and retain difficult concepts. The inclusion of evidence-based approaches to the management of a range of cardiac surgical conditions equips the reader with an understanding of how to overcome a variety of potentially tough clinical challenges. Concise Cardiac Surgery: A Complete Guide comprehensively covers a range of techniques used in cardiac surgery. It is therefore, an ideal resource for the trainee and practising cardiac surgeon seeking a practically focused text detailing how to apply the latest techniques and evidence-based approaches in their day-to-day practice.

First multi-year cumulation covers six years: 1965-70.

Occupational Health: A Guide to Sources of Information is a compilation of papers that can be used as reference when seeking information and knowledge related to health hazards found in the workplace. The information given in the book pertains mostly to the United Kingdom, though additional references can be helpful when used in other countries. The text enumerates the qualifications and trainings required for occupational physicians, medical officers, consultants, nurses, and part-time workers. The book also includes training courses in the USA, Australia, and South Africa. The epidemiological approach to occupational health hazards and problems, including the spread of community diseases in terms of age, social class, and time factors, is discussed. Of interest is the chapter on ergonomics where the interrelations between humans and their occupations are studied. Another useful chapter for administrators in the occupational health sector is the design of an occupational health department and first aid stations. Related topics include management, handling trade unions, and even environmental pollution. Details of occupational medicine in selected countries of the European Economic Community, the work of the WHO and the ILO, and other additional information from countries such as Israel, India, Sudan, and Zambia are included. This book is an informative reading for

physicians, nurses, hygienists, ergonomists, biomedical engineers, and students and trainees in occupational medicine. This book provides a concise overview of cardiac electrophysiology for cardiologists who are not electrophysiologists and for allied cardiovascular professionals, cardiology registrars and fellows who are new to the field. It familiarises them with the main procedures performed in the electrophysiology laboratory. Emphasis is placed on helping the reader develop a core understanding of how data is collected and interpreted in the electrophysiology laboratory, and how this is used to guide ablation for the commonest arrhythmias including AV nodal re-entry tachycardia, accessory pathways, atrial fibrillation and ventricular arrhythmias. *Decoding Cardiac Electrophysiology: Understanding the Techniques and Defining the Jargon* will translate some of the technical terminology and data frequently used by electrophysiologists into terms and concepts familiar to the wider cardiovascular community. This includes the interpretation of electrograms and 3D electro-anatomical maps of common arrhythmias. Accordingly, it offers a valuable resource for all non-electrophysiologists seeking a guide to the topic and for electrophysiology trainees establishing their core knowledge and skills in the field. The aim is that this should be the first book anyone new to the field should choose to read.

Finally, a pacing book dedicated to the adult patient with CHD. Drawing on their vast experience, Drs. Mond and Karpawich join forces to show you what to do, how to do it, and what to avoid. Building on more than 60 years of device therapy *Pacing Options in the Adult Patient with Congenital Heart Disease* leads you through the many congenital heart defects now seen in adults. This essential resource: Describes the various anatomical characteristics of repaired and non-repaired congenital heart defects and compares these with the normal anatomy, allowing you to easily identify the differences Guides you through the implant techniques, highlighting the specific problems that might be encountered and providing proven techniques to overcome technically difficult anatomical variations in patients with and without congenital heart disease Throughout the book, schematic diagrams of the diverse anatomy of the congenital heart support the textual descriptions, and x-rays and fluoroscopic images illustrate the physiology and maximize understanding.

Tackle a tough subject in bite-sized pieces. A seemingly huge volume of information is organized into manageable sections to make complex concepts easy to understand and remember. You begin with an overview of the body, including its chemical and cellular structures, then progress to one-of-a-kind portrayals of each body system, grouped by function. Full-color illustrations, figures, sidebars, helpful hints, and easy-to-read descriptions make information crystal clear. Each unique page spread provides an entire unit of understanding, breaking down complex concepts into easy-to-grasp sections for today's learner.

This text/CD-ROM package equips medical transcription students and professionals with the terminology knowledge, transcription practice, and proofreading and editing skills to succeed in the field of cardiology. The book provides thorough coverage of terminology encountered in cardiology transcription, with definitions, descriptive illustrations, and cross-references to sample

reports. Fifty proofreading and editing exercises with answer keys are included. A bonus CD-ROM contains audio dictation files encompassing various cardiology topics, dictation styles, and accents. Answer keys provide remediation for common errors. The CD-ROM also includes an audio pronunciation glossary, crossword puzzles, and matching, fill-in-the-blank, multiple-choice, figure labeling, and spelling bee exercises.

Notebooking journal for elementary study of human anatomy, written from a Christian perspective.

The main objective of this Research Topic is to determine the conditions that place students at risk of school failure, identifying student and context variables. In spite of the fact that there is currently little doubt about how one learns and how to teach, in some countries of the “developed world,” there is still there is a high rate of school failure. Although the term “school failure” is a very complex construct, insofar as its causes, consequences, and development, from the field of educational psychology, the construct “student engagement” has recently gained special interest in an attempt to deal with the serious problem of school failure. School engagement builds on the anatomy of the students’ involvement in school and describes their feelings, behaviors, and thoughts about their school experiences. So, engagement is an important component of students’ school experience, with a close relationship to achievement and school failure. Children who self-set academic goals, attend school regularly and on time, behave well in class, complete their homework, and study at home are likely to interact adequately with the school social and physical environments and perform well in school. In contrast, children who miss school are more likely to display disruptive behaviors in class, miss homework frequently, exhibit violent behaviors on the playground, fail subjects, be retained and, if the behaviors persist, quit school. Moreover, engagement should also be considered as an important school outcome, eliciting more or less supportive reactions from educators. For example, children who display school-engaged behaviors are likely to receive motivational and instructional support from their teachers. The opposite may also be true. But what makes student engage more or less? The relevant literature indicates that personal variables (e.g., sensory, motor, neurodevelopmental, cognitive, motivational, emotional, behavior problems, learning difficulties, addictions), social and/or cultural variables (e.g., negative family conditions, child abuse, cultural deprivation, ethnic conditions, immigration), or school variables (e.g., coexistence at school, bullying, cyberbullying) may concurrently hinder engagement, preventing the student from acquiring the learnings in the same conditions as the rest of the classmates.

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