Giuseppe Buonocore • Rodolfo Bracci Michael Weindling fotos

# Neonatology

A Practical Approach to Neonatal Diseases



# Neonatology A Practical Approach To Neonatal Diseases

Victoria Kain, Trudi Mannix

#### **Neonatology A Practical Approach To Neonatal Diseases:**

**Neonatology** Giuseppe Buonocore, Rodolfo Bracci, Michael Weindling, 2011-12-01 This new textbook wants to offer to neonatologists and pediatricians a modern and complete view of the various problems and aspects of neonatology currently one of the most complex and advanced fields of pediatrics. The first chapters will be dedicated to the epidemiology of neonatal mortality and morbidity and to the conditions responsible for neonatal risk A section will be devoted to organizational problems of hospitals and home services for efficient modern neonatal and infant care Particular attention will be paid to neonatal care medico legal questions examination of newborns and current availability of laboratory facilities and instrumentation for identification of perinatal abnormalities Neonatal nutritional problems will also be examined outlining current knowledge of the needs of sick and healthy babies Conditions jeopardizing fetal health such as diabetes maternal drug abuse and smoking will be discussed New advances in neonatal pharmacology will be extensively examined Various diseases of the neonate involving lungs heart gastrointestinal tract blood immune system endocrine system and kidneys will be also expounded in special chapters Fetal and neonatal infections will be extensively discussed Fetal and neonatal neurological abnormalities will be discussed by highly specialized authors. There will be chapters on neonatal ophthalmology dermatology and orthopedics Each chapter has beeb written by a well recognized international expert in his or her field As the opinion leader in their field the Author is responsible for giving the most up to date information in terms of what is known what is still being researched and what has become evidence based medicine Underlying causes and mechanisms of neonatal diseases will be presented in an immediate form The use of summaries tables and accurately selected guidelines or recommendations that will accompany the text will supply quick references and instant solutions to the concerned neonatologists during their daily practice Neonatology Giuseppe Buonocore, Rodolfo Bracci, Michael Weindling, 2012-01-28 This new textbook wants to offer to neonatologists and pediatricians a modern and complete view of the various problems and aspects of neonatology currently one of the most complex and advanced fields of pediatrics The first chapters will be dedicated to the epidemiology of neonatal mortality and morbidity and to the conditions responsible for neonatal risk A section will be devoted to organizational problems of hospitals and home services for efficient modern neonatal and infant care Particular attention will be paid to neonatal care medico legal questions examination of newborns and current availability of laboratory facilities and instrumentation for identification of perinatal abnormalities Neonatal nutritional problems will also be examined outlining current knowledge of the needs of sick and healthy babies Conditions jeopardizing fetal health such as diabetes maternal drug abuse and smoking will be discussed New advances in neonatal pharmacology will be extensively examined Various diseases of the neonate involving lungs heart gastrointestinal tract blood immune system endocrine system and kidneys will be also expounded in special chapters Fetal and neonatal infections will be extensively discussed Fetal and neonatal neurological abnormalities will be discussed by highly specialized authors There

will be chapters on neonatal ophthalmology dermatology and orthopedics Each chapter has beeb written by a well recognized international expert in his or her field As the opinion leader in their field the Author is responsible for giving the most up to date information in terms of what is known what is still being researched and what has become evidence based medicine Underlying causes and mechanisms of neonatal diseases will be presented in an immediate form The use of summaries tables and accurately selected guidelines or recommendations that will accompany the text will supply guick references and instant solutions to the concerned neonatologists during their daily practice HADI PRACTICAL NEONATOLOGY BOOK 1 ABDELHADI ABDELGABBAR ABDELHADI, 2024-01-24 Hadi Practical Neonatology a 2 book series of practical quidelines is intended to provide a structured approach to the management of neonatal conditions which are likely to face the neonatal team It is not intended to replace textbooks or to teach the beginners in the field Prior sound knowledge of Neonatal Medicine by the user is essential This book is the first in the series It covers aspects of RESUSCITATION THERMAL CONTROL RESPIRATORY CARDIOVASCULAR INFECTIONS ENDOCRINE METABOLIC GASTROINTESTINAL NUTRITION DERMATOLOGY and SURGICAL NEWBORN challenges It is my belief that neonatal doctors and nurses are an integrated team and any demarcation is an imaginary line The recipe of creating a backbone of good nurses is passionate support continuous education and practical teaching at every possible opportunity Mutual trust and appropriate delegations are crucial to the success of the team HADI PN series is written for the neonatal team and not just for the medical staff The best way for consolidating the team knowledge and experience is bedside teaching New methods and approaches of neonatal management are progressing but seem to slow down over the last few years This may reflect the fact neonatal advances are approaching our era peak of what is possible Nevertheless many of our current practices are yet to be scrutinized to fulfil the evidence based standards There is no robust verification of the evidence behind our current practice of many routine day to day applications This include but not limited to fluid requirements duration of antibiotics courses use of various blood products seizures pharmacological treatment and safe PaCO2 levels I have reviewed multiple medical and nursing guidelines from Europe North America and Australia as well as Asia South America and Africa I integrated many of these guidelines within this book whenever they are in accord with the international acceptable practices Feedback and suggestions are welcome and can be sent to neonatologypractical gmail com The book is an updated version of the protocols and guidelines which I have developed during my work as Consultant Neonatologist Some are adopted from various reputable institutes and modified to reflect the current evidence plus a slight flavour of my experience Considerable effort has been exercised to ensure the doses of medications given in HADI PN are accurate However further confirmation by the nursing and medical staff is advised prior to the first use of each medication HADI PN reflects the author's own acceptable and safe practice and advice It is written with the intention of facilitating the delivery of care to the most vulnerable newborn The publication is written bearing in mind the wide variations in the skill mix of neonatal practitioners nurses and doctors Likewise the chall

#### HADI PRACTICAL NEONATOLOGY BOOK 2 DR.ABDELHADI ABDELGABBAR ABDELHADI

MBBS,MRCP,FRCPCH,2024-01-24 Hadi Practical Neonatology Hadi PN a 2 book series of practical quidelines is intended to provide a structured approach to the management of neonatal conditions which are likely to face the neonatal team It is not intended to replace neonatal textbooks or to teach the beginners in the field Prior sound knowledge of Neonatal Medicine by the user is essential This book is the second in the series It covers aspects of NEUROLOGY FLUIDS ELECTROLYTES VASCULAR ACCESS SAMPLING FREQUENT CHALLENGES HAEMATOLOGY JAUNDICE and ESSENTIAL PROCEDURES PRACTICES challenges It is my belief that neonatal doctors and nurses are an integrated team and any demarcation is an imaginary line The recipe of creating a backbone of good nurses is passionate support continuous education and practical teaching at every possible opportunity Mutual trust and appropriate delegations are crucial to the success of the team HADI PN series is written for the neonatal team and not just for the medical staff The best way for consolidating the team knowledge and experience is bedside teaching New methods and approaches of neonatal management are progressing but seem to slow down over the last 2 3 years This may reflect the fact neonatal advances are approaching our era peak of what is possible Nevertheless many of our current practices are yet to be scrutinized to fulfil the evidence based pathways and standards There is no robust verification of our current practice of many routine day to day applications This include but not limited to fluid requirements duration of antibiotics courses use of various blood products and seizures pharmacological treatment I have reviewed multiple neonatal medical and nursing guidelines from Europe North America and Australia as well as guidelines from Asia South America and Africa I integrated many aspects from these guidelines within this text whenever they are in accord with the international acceptable practices Feedback and suggestions are welcome and can be sent to neonatologypractical gmail com The book is an updated version of the protocols and guidelines which I have developed during my work as Consultant Neonatologist Many are adopted from various reputable institutes and modified to reflect the current evidence plus a slight flavour of my experience Considerable effort has been exercised to ensure the doses of medications given in HADI PN are accurate However further confirmation by the nursing and medical staff is advised prior to the first use of each medication HADI PN reflects the author's own acceptable and safe practice and advice It is written with the intention of facilitating the delivery of care to the most vulnerable newborn The publication is written bearing in mind the wide variations in the skill mix of neonatal practitioners nurses and doctors Likewise the challenging circumstances in developing countries are taken into consideration It is a legal requirement to advise users of the information provided within this publication that the editor and publisher are not responsible for any errors or omissions and or any consequences arising from the use of this book Klaus and Fanaroff's Care of the High-Risk Neonate - E-BOOK Avroy A. Fanaroff, Jonathan M. Fanaroff, 2025-01-24 Selected for 2025 Doody's Core Titles in Perinatal Now in full color for the first time Klaus and Fanaroff's Care of the High Risk Neonate Eighth Edition remains your reference of choice for concise

authoritative guidance in today s NICU Top experts offer comprehensive yet easily accessible coverage of recent advances in this challenging field and include personal and practical editorial comments that are the hallmark of this highly regarded text This fully revised edition helps you take advantage of recent advances in the NICU that have improved patient care outcomes and quality of life with expanded coverage of genetics and newborn screening new diagrams and tables many new contributing authors and much more Covers all aspects of high risk neonatal care including resuscitation transport nutrition respiratory problems and assisted ventilation and organ specific care Features case studies editorial comments that provide pearls and red herrings question and answer sections at the end of each chapter and interactive questions online These popular features set this book apart from other NICU related titles Contains updated content throughout easy to follow clinical workflow algorithms numerous tables and illustrations useful appendices with drug information normal values and conversion charts Offers vastly expanded coverage of genetics inborn errors of metabolism and newborn screening as well as an all new chapter on Essential Neonatal Pharmacology for Clinical Providers in the NICU Includes expanded chapters on Genetics and Inborn Errors of Metabolism also discusses the many diseases and conditions that once had poor survival prognoses but now have improved outcomes erythroblastosis fetalis group B streptococcal sepsis respiratory distress syndrome and many more Uses a new full color format for visual appeal readability and quick reference An ideal everyday reference for neonatologists and trainees pediatricians neonatal nurse practitioners and NICU nurses Klaus and Fanaroff's Care of the High-Risk Neonate E-Book Jonathan M Fanaroff, Avroy A. Fanaroff, 2012-09-11 Stay up to date with recent advances in the NICU with Klaus and Fanaroff's Care of the High Risk Neonate 6th Edition This trusted neonatology reference thoroughly covers the new guidelines equipment drugs and treatments that have greatly increased the chance of survival for high risk infants Expert contributors deliver the information you need to stay on top of the technological and medical advances in this challenging field Consult this title on your favorite e reader with intuitive search tools and adjustable font sizes Elsevier eBooks provide instant portable access to your entire library no matter what device you re using or where you re located Benefit from the expert advice offered in concise easy to read editorial comments throughout the book Assess your knowledge with comprehensive question and answer sections at the end of each chapter Understand the clinical relevance of what you ve learned with case studies that highlight real world application Own the reference trusted for nearly 40 years by those who care for at risk neonates in the dynamic and challenging NICU Get fast access to need to know information on drugs used in the NICU normal values and much more in the fully updated appendices Keep your knowledge up to date with expanded coverage of evidence based medicine and the role of networks in generating evidence Stay current with all aspects of neonatal care including resuscitation transport nutrition respiratory problems and assisted ventilation and organ specific care Klaus and Fanaroff's Care of the High-Risk Neonate Jonathan M Fanaroff, MD, JD, FAAP, Avroy A. Fanaroff, 2012-09-11 Stay up to date with recent advances in the NICU with Klaus and Fanaroff s

Care of the High Risk Neonate 6th Edition This trusted neonatology reference thoroughly covers the new guidelines equipment drugs and treatments that have greatly increased the chance of survival for high risk infants Expert contributors deliver the information you need to stay on top of the technological and medical advances in this challenging field Benefit from the expert advice offered in concise easy to read editorial comments throughout the book Assess your knowledge with comprehensive question and answer sections at the end of each chapter Understand the clinical relevance of what you ve learned with case studies that highlight real world application Own the reference trusted for nearly 40 years by those who care for at risk neonates in the dynamic and challenging NICU Get fast access to need to know information on drugs used in the NICU normal values and much more in the fully updated appendices Keep your knowledge up to date with expanded coverage of evidence based medicine and the role of networks in generating evidence Stay current with all aspects of neonatal care including resuscitation transport nutrition respiratory problems and assisted ventilation and organ specific care Access the fully searchable text online download images and more at www expertconsult com E-Book Elaine M. Keohane, Michelle Montgomery Preston, Kamran M. Mirza, Jeanine M. Walenga, 2024-04-15 Selected for 2025 Doody's Core Titles in Laboratory Medicine Make sure you are thoroughly prepared to work in a clinical laboratory Rodak's Hematology Clinical Principles and Applications 7th Edition uses hundreds of full color photomicrographs to help you understand the essentials of hematology and hemostasis This new edition details the parts and functions of the cell shows how to accurately identify cells covers normal hematopoiesis through diseases of erythroid myeloid lymphoid and megakaryocytic origins and simplifies hemostasis and thrombosis concepts and disorders Easy to follow and understand this book also covers key topics including working in the hematology and hemostasis laboratory complementary testing areas such as flow cytometry cytogenetics and molecular diagnostics and laboratory testing of blood cells and body fluid cells Content throughout the text reflects the latest information on hematology and hemostasis Hematology and hemostasis instruments are described compared and contrasted More than 700 full color illustrations and photomicrographs make it easier to visualize hematology concepts and show what you ll encounter in the laboratory Instructions for laboratory procedures include detailed figures and sources of errors Case studies in each chapter provide opportunities to apply hematology concepts to real life scenarios Hematology and hemostasis reference intervals are listed on the inside front and back covers for quick reference Bulleted chapter summaries make it easy for you to review important points Learning objectives begin each chapter and indicate what you should achieve with review questions appearing at the end Appendices provide easy access to a list of key formulas abbreviations and a detailed glossary to complement learning New to this edition NEW Chapter on Patient Safety in Hematology and Hemostasis NEW Section on hematology and hemostasis in transgender populations UPDATED White blood cell chapters are current with the 2022 World Health Organization WHO Classification of Haematolymphoid Tumours NEW Changes in laboratory results associated with COVID 19 and other viral infections NEW

Content and figures on plasma transport cell communication and signal transduction NEW Coverage of CRISPR technology for treatment of hemoglobinopathies and thalassemia UPDATED Major revision of the Automated Blood Cell Analysis chapter

Wong's Nursing Care of Infants and Children Australia and New Zealand Edition - For Professionals Lisa Speedie, Andrea Middleton, 2021-11-09 This new text has been adapted from the highly trusted Wong's Nursing Care of Infants and Children to provide a reference for professional nurses working in paediatric and child and family health settings in Australia and New Zealand The content covers all aspects of infant child and adolescent care including anatomy and physiology child and adolescent mental health nursing care guidelines critical thinking family centred care rural and remote health cultural and psychosocial considerations common presenting conditions and therapeutic management With input from leading local expert paediatric clinicians and academics and carefully curated for practising paediatric nurses and nurses newly entering paediatrics the text aligns with local professional standards health policies legal and ethical considerations and population data Well established comprehensive text that focuses on clinical relevance for professional nurses Covers all aspects of infant child and adolescent health through an assessment and management approach Foundational information builds a solid knowledge base in paediatric nursing Written to help nurses develop a deeper understanding of the psychosocial needs of infants children adolescents and their families Case studies and research questions to build critical thinking skills Aligned to National Safety and Quality Health Service NSQHS Standards User friendly accessible content suitable for practising paediatric nurses across a variety of clinical settings and geographic locations Comprehensive Respiratory Diseases Sindee Karpel, Anthony James Linz, 2019-03-18 Linz s Comprehensive Respiratory Diseases and accompanying student workbook manual are a comprehensive yet concise learning system concerning respiratory disorders Concentration is focused on essentials rather than being encyclopedic It is written by health care practitioners with many years of clinical as well as academic experience. This textbook is ideal for undergraduate respiratory therapy students taking the core course on respiratory diseases or disorders Newborn Surgery Prem Puri, 2017-09-22 Following the success of three previous editions this new edition of Newborn Surgery continues to provide the most comprehensive information on the surgical management of neonatal disorders Each chapter is thoroughly revised and updated and there are eight new chapters on key topics in the specialty including neonatal care in the delivery room specific risks for pre term infants surgical safety tissue engineering and stem cell research and surgical implications of HIV The Essentials of Clinical Reasoning for Nurses: Using the Outcome-Present State Test Model for Reflective Practice RuthAnne Kuiper, Sandra M. O'Donnell, Daniel J. Pesut, Stephanie L. Turrise, 2017-05-24 In today s healthcare environment of scarce resources and challenges related to safety and quality nurses must make decision after decision to ensure timely accurate and efficient provision of care Solid decision making or lack thereof can significantly affect patient care and outcomes Clinical reasoning how a nurse processes information and chooses what action to take is a skill vital to nursing

practice and split second decisions And yet developing the clinical reasoning to make good decisions takes time education experience patience and reflection Along the way nurses can benefit from a successful practical model that demystifies and advances clinical reasoning skills In The Essentials of Clinical Reasoning for Nurses authors RuthAnne Kuiper Sandra O Donnell Daniel Pesut and Stephanie Turrise provide a model that supports learning and teaching clinical reasoning development of reflective and complex thinking clinical supervision and care planning through scenarios diagnostic cues case Rodak's Hematology Elaine M. Keohane, Larry Smith, Jeanine M. Walenga, 2015-02-20 Featuring hundreds of full color photomicrographs Rodak s Hematology Clinical Principles and Applications 5th Edition prepares you for a job in the clinical lab by exploring the essential aspects of hematology It shows how to accurately identify cells simplifies hemostasis and thrombosis concepts and covers normal hematopoiesis through diseases of erythroid myeloid lymphoid and megakaryocytic origins This text also makes it easy to understand complementary testing areas such as flow cytometry cytogenetics and molecular diagnostics Clinical lab experts Elaine Keohane Larry Smith and Jeanine Walenga also cover key topics such as working in a hematology lab the parts and functions of the cell and laboratory testing of blood cells and body fluid cells Instructions for lab procedures include sources of possible errors along with comments Case studies in each chapter provide opportunities to apply hematology concepts to real life scenarios Hematology instruments are described compared and contrasted UPDATED full color illustrations make it easier to visualize hematology concepts and show what you ll encounter in the lab with images appearing near their mentions in the text so you don't have to flip pages back and forth Hematology hemostasis reference ranges are listed on the inside front and back covers for quick reference A bulleted summary makes it easy to review the important points in every chapter Learning objectives begin each chapter and indicate what you should achieve with review questions appearing at the end A glossary of key terms makes it easy to find and learn definitions NEW coverage of hematogones in the chapter on pediatric and geriatric hematology helps you identify these cells a skill that is useful in diagnosing some pediatric leukemias UPDATED chapter on molecular diagnostics covers new technology and techniques used in the lab **Pediatric Neurosurgery for Clinicians** Georgios Alexiou, Neofytos Prodromou, 2022-01-17 This book presents a detailed overview of a spectrum of pediatric neurosurgical conditions It features detailed insight into the techniques available for examining abnormalities hemorrhages and a variety of tumors Relevant surgical methodologies are described in relation to a clinical problem or disorder ensuring that the reader can systematically develop their knowledge of how to perform both routine and more obscure procedures presently utilized to treat these conditions Pediatric Neurosurgery for Clinicians is a comprehensive guide detailing methodologies for applying a range of surgical techniques based upon a range of clinical questions. Therefore it is a critical resource for all practicing and trainee physicians who encounter children with disorders affecting their neurological systems in disciplines within neurosurgery neurology radiology oncology and pathology Selected Topics in Breastfeeding René Mauricio Barría, 2018-12-19

Breastfeeding is a cornerstone of child nutrition and the growth and development of children In addition it generates other multiple benefits for both child and mother Consequently it has been recognized as a strategy of promotion and protection of the main health for different countries across the world However despite the strong evidence of its benefits and the public health policies being implemented to promote breastfeeding the prevalence of exclusive breastfeeding at the sixth month does not reach the recommendations of many countries This book intends to provide the reader with an overview of selected topics on current state of the art breastfeeding in different situations and conditions Specialists in the field of breastfeeding from different countries have developed these chapters and through them they share part of their experience Asphyxia in Neonates Miljana Z. Jovandaric, 2024-04-26 In severe asphyxia lipid peroxidation occurs Neonatal lipid concentration may indicate the severity of asphyxia and be a reason for needing cooling therapy Asphyxia in Neonates describes the results of research into the impact oxygen deficits in neonates The physiological consequences of asphyxiated newborn infants include changes in the pH of plasma and changes in lipid concentrations These changes can result in apoptosis loss of cell membrane integrity and damage to the brain Features Reviews pathophysiology of asphyxia Describes the influence of asphyxia on lipids concentrations Summarizes the weight distribution of neonates with asphyxia based on lipid concentration Illustrates the use of lipids as an indicator of prognosis following asphyxia Provides guidance for lipids parameters in cooling therapy

<u>Neonatal Care for Nurses and Midwives</u> Victoria Kain, Trudi Mannix, 2022-11-08 Increased focus on international data evidence based research and exemplars for the principles of best practice New chapters Care of the normal newborn Care of the neonate with congenital abnormality Extensively revised content on neonatal nutrition and fluid management

Encyclopedia of Pharmacy Practice and Clinical Pharmacy ,2019-06-28 Encyclopedia of Pharmacy Practice and Clinical Pharmacy Three Volume Set covers definitions concepts methods theories and applications of clinical pharmacy and pharmacy practice It highlights why and how this field has a significant impact on healthcare The work brings baseline knowledge along with the latest most cutting edge research In addition new treatments algorithms standard treatment guidelines and pharmacotherapies regarding diseases and disorders are also covered The book s main focus lies on the pharmacy practice side covering pharmacy practice research pharmacovigilance pharmacoeconomics social and administrative pharmacy public health pharmacy pharmaceutical systems research the future of pharmacy and new interventional models of pharmaceutical care By providing concise expositions on a broad range of topics this book is an excellent resource for those seeking information beyond their specific areas of expertise This outstanding reference is essential for anyone involved in the study of pharmacy practice Provides a one stop resource for access to information written by world leading scholars in the field Meticulously organized with articles split into three clear sections it is the ideal resource for students researchers and professionals to find relevant information Contains concise and accessible chapters that are ideal as an authoritative introduction for non specialists and readers from the undergraduate level upwards Includes

multimedia options such as hyperlinked references and further readings cross references and videos Nutrition and *Growth* R., Shamir, D., Turck, M., Phillip, 2013-01-29 Growth as an indicator of health is more sensitive than commonly believed and can serve as an early sign of imbalance before other malfunctions manifest themselves Particularly in developing countries growth failure in infants and children is related to mortality morbidity and impaired brain development and increases the risk of adult onset non communicable diseases This publication focuses on the challenges of the interaction between nutrition and growth in the pediatric age group Subjects covered include the interplay between nutrition and the IGF axis early feeding and later growth growth charts including an update on the implementation of the WHO growth standards various aspects of obesity nutrition and growth of premature infants and of children with specific diseases and the interaction between bone health nutrition and growth Containing lectures from the 1st International Conference on Nutrition and Growth Paris 2012 this book is a valuable source of information for pediatricians nutritionists neonatologists and experts in child development A Practical Guide to Newborn Medicine, An Issue of Pediatric Clinics of North America Kelsey Ryan, Robert Kliegman, 2025-08-28 In this issue of Pediatric Clinics of North America guest editors Drs Kelsey Ryan and Robert M Kliegman bring their considerable expertise to the topic of A Practical Guide to Newborn Medicine This important primer updates pediatricians on key topics such as resuscitation hyperbilirubinemia hypotonia and hypoglycemia Advances in newborn screening are also covered as well as congenital anomalies bleeding disorders and early onset sepsis Contains 14 relevant practice oriented topics including supporting newborn feeding neonatal hyperbilirubinemia identifying congenital heart disease in the newborn nursery advances in newborn screening and more Provides in depth clinical reviews on newborn medicine offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice quidelines to create clinically significant topic based reviews

Enjoying the Melody of Phrase: An Mental Symphony within Neonatology A Practical Approach To Neonatal Diseases

In some sort of used by monitors and the ceaseless chatter of instantaneous communication, the melodic beauty and emotional symphony developed by the published term usually fade in to the back ground, eclipsed by the constant noise and disruptions that permeate our lives. But, located within the pages of **Neonatology A Practical Approach To Neonatal Diseases** an enchanting fictional treasure filled with fresh feelings, lies an immersive symphony waiting to be embraced. Constructed by a masterful musician of language, this captivating masterpiece conducts visitors on a mental trip, well unraveling the concealed songs and profound impact resonating within each carefully constructed phrase. Within the depths of the moving review, we will investigate the book is main harmonies, analyze its enthralling writing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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