

Basic Oxygen Delivery Devices

by Dr Sarah Edwards

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University Hospitals of Leicester NHS

#EM3



Nasal Cannula



Venturi Valves and Mask



Non-Rebreather Mask

Device

Nasal Cannula

This device delivers a **VARIABLE** oxygen concentration due to the effect of the respiratory rate of the patient.

Flow Rate
(L/min)

% Oxygen Delivered /
Concentration (FiO_2)

Venturi Valves and Mask

This device delivers a **FIXED** oxygen concentration.

Non-Rebreather Mask

This device delivers a **VARIABLE** oxygen concentration due to the effect of the respiratory rate of the patient.

10-15

Can't be less than 10 L/min

~60-85%

Recording the amount of Oxygen

1. Record the delivery method of the oxygen (e.g. nasal cannula).
2. If oxygen is given using a **VENTURI MASK AND VALVE**,
RECORD THE CONCENTRATION OF OXYGEN, NOT the L/min.
This is shown on the Venturi Device (e.g. 60% on collar of this valve).
3. If given by **NASAL CANNULA** or **NON-REBREATHING MASK**,
RECORD THE FLOW RATE (L/MIN) of oxygen given.



Oxygen flow rate is the number that we dial up on the oxygen flow meter.

This is usually 1-15 L/min



FiO_2 (fraction of inspired oxygen) is the percentage or concentration of oxygen that a person inhales.

In room air this is 21%

Oxygen Therapy Manual

**Kapil Zirpe, Subhal B Dixit, Atul P
Kulkarni**



Oxygen Therapy Manual:

Manual of Oxygen Therapy Kapil Zirpe, Subhal B Dixit, Atul P Kulkarni, 2022-08-31 Oxygen therapy is a treatment that provides a patient with extra oxygen to breathe in. It is also called supplemental oxygen. It is only available through a prescription from a health care provider. Patients may receive it in hospital, another medical setting, or at home. Some people only need it for a short period of time. Others will need long-term oxygen therapy. There are different types of devices that can provide oxygen. Some use tanks of liquid or gas oxygen. Others use an oxygen concentrator which pulls oxygen out of the air. The oxygen is administered through a nose tube cannula, a mask, or a tent. The extra oxygen is breathed in along with normal air. This book is a concise guide to oxygen therapy for clinicians and trainees. Divided into four sections, the text begins with an overview of the basic facts of oxygen, describing the different types and their individual uses in clinical therapy. Section two discusses the physiology and monitoring of oxygen therapy, and section three covers different devices and delivery systems and oxygen toxicity lung damage from breathing in too much extra oxygen. The final section examines oxygen targets in disease specifics, how the therapy works, and the effects of hypoxia, low oxygen levels in body tissues, and hypoxemia, low oxygen levels in the blood.

Illustrated Manual of Nursing Practice, 2002 Completely revised and updated, this broad yet comprehensive edition contains twenty-nine chapters on nursing issues and clinical practice. Topics cover practice and process, documentation, legal issues, health promotion, physical assessment, I/V therapy, surgical care, and more. Disorders are organized by body system and feature an overview of anatomy and physiology, assessment, diagnostic tests, medication, treatment, and home care, with coverage of care for maternal, neonatal, pediatric, geriatric, emergency, and psychiatric patients. Added features include grabbing nursing procedure graphics, complementary therapies, clinical pathways, and cultural information. Over 1,000 illustrations, charts, and graphs enhance the text, with a new appendix relating Internet sites for nurses.

The Respirator's Manual: A Comprehensive Guide to Success for Respiratory Therapists Pasquale De Marco, 2025-07-15 Embark on a transformative journey into the realm of respiratory care with this comprehensive guidebook meticulously crafted to empower respiratory therapists, nurses, and healthcare professionals with the knowledge and skills to navigate the intricacies of pulmonary medicine. Within these pages, you will find a wealth of evidence-based information presented in a clear and engaging manner, illuminating the complexities of respiratory physiology, assessment, and therapeutic interventions. Delve into the fascinating world of respiratory anatomy and physiology, unraveling the intricate mechanisms that orchestrate the symphony of breathing. Master the art of respiratory assessment, learning to decipher the subtle signs and symptoms that reveal underlying respiratory ailments. Explore the vast armamentarium of oxygen therapy techniques, from basic to advanced, empowering you to deliver life-sustaining oxygen to patients in need. Confront the complexities of mechanical ventilation, gaining proficiency in ventilator management and patient monitoring, ensuring optimal respiratory support. Discover the nuances of aerosol therapy and inhalation medications, harnessing their targeted power to

alleviate respiratory distress Delve into the realm of chest physical therapy mastering the techniques of percussion vibration and postural drainage unlocking the airways and promoting respiratory clearance Witness the transformative effects of pulmonary rehabilitation a beacon of hope for patients with chronic respiratory conditions guiding them on a journey towards restored function and improved quality of life Navigate the treacherous terrain of respiratory emergencies arming yourself with the knowledge and skills to recognize and manage life threatening conditions with swift and decisive action Engage in thoughtful discussions on ethics and end of life care exploring the delicate balance between patient autonomy beneficence and non maleficence Peer into the future of respiratory care where cutting edge technologies and innovative therapies hold the promise of revolutionizing patient care This comprehensive guide is not merely a repository of knowledge but an invaluable tool empowering healthcare professionals to deliver exceptional care to patients with respiratory conditions Its pages are filled with practical insights evidence based protocols and real world case studies providing a roadmap for clinical excellence As you delve into this book you ll emerge as a more confident and competent respiratory care practitioner equipped to make a profound difference in the lives of your patients If you like this book write a review Oh's Intensive Care Manual Andrew D. Bersten,Neil Soni,2009-01-01 The sixth edition provides practical concise information on all aspects of intensive care Written in a clear and accessible style and now for the first time presented in colour throughout this book enables the user to manage a patient in an ICU setting effectively without recourse to large text reference works or specialized monographs This thoroughly revised and updated edition reflects the best and most current practice from leading centres in Australia the UK and Western Europe Information on management and treatment of conditions is balanced by pathophysiological and pharmacological background This is not just a cook book of procedures It provides all of the essential information for candidates wishing to pass professional examinations Addition of colour throughout to highlight summary boxes tables charts and flow diagrams Will make key information more accessible easier and faster to retrieve Pitfalls in treatment and management emphasized in each chapter Providers the user with expert advice on practical issues that will be encountered on a day to day basis in the ICU Keeps the user abreast of the latest developments in diagnosis and management Oh's Intensive Care Manual E-Book Andrew D Bersten,Neil Soni,2008-12-05 The sixth edition of Oh s Intensive Care Manual provides practical concise information on all aspects of intensive care Written in a clear and accessible style and now for the first time presented in colour throughout this book enables the user to manage a patient in an ICU setting effectively without recourse to large text reference works or specialized monographs This thoroughly revised and updated edition reflects the best and most current practice from leading centres in Australia the UK and Western Europe Although primarily intended for the trainee and practitioner in intensive care nurses and other allied health professionals will find that this is an invaluable tool in helping to deal with a broad spectrum of conditions encountered in the ICU Represents a consensus of practice standard of care in Australia NZ UK and Europe Treatment guidelines are authoritative since they

follow those that are Recommended laid down by Professional societies Comprehensive covers all important areas of intensive care medicine Provides a single resource that will cover everything that a user will need to know during the course of an ICU rotation No need to refer to a larger textbook Information on management and treatment of conditions is balanced by pathophysiological and pharmacological background This is not just a cook book of procedures It provides all of the essential information for candidates wishing to pass professional examinations Covers the paediatric as well as the adult patient in the ICU Provides quick access and practical guidance for all clinical scenarios Extensive list of key references most taken from the last three years Helps trainees and practitioners prepare for case conference presentations Addition of colour throughout to highlight summary boxes tables charts and flow diagrams Will make key information more accessible easier and faster to retrieve Line drawings extensively re done in colour throughout Will improve the user s understanding of the physiological processes under discussion 5 10 Key points added at end of chapters Will provide the user with a useful summary of the essential bottom line information Pitfalls in treatment and management emphasized in each chapter Provides the user with expert advice on practical issues that will be encountered on a day to day basis in the ICU Includes the most current classification and clinical scoring schemes Keeps the user abreast of the latest developments in diagnosis and management

The Royal Marsden Manual of Clinical Nursing Procedures, Student Edition Sara Lister, Justine Hofland, Hayley Grafton, Catherine Wilson, 2021-06-01 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

Manual of Clinical Paramedic

Procedures Pete Gregory, Ian Mursell, 2015-06-01 I can enthusiastically recommend the Manual of Clinical Paramedic Procedures as the book that I wish had been available to me when I was studying to become a paramedic From the foreword by Professor Malcolm Woollard Chair College of Paramedics Professor in Pre hospital and Emergency Care Director Pre hospital Emergency Cardiovascular Care Applied Research Group Coventry University Clinical procedures are a fundamental aspect of care for practitioners working in pre hospital settings The Manual of Clinical Paramedic Procedures is written specifically to support the practice of paramedics ambulance technicians first responders and volunteer ambulance personnel It presents up to date evidence based expert knowledge enabling paramedics to deliver effective patient focused care This accessible handbook provides a comprehensive exploration of core competencies and skills looking at topics including Aseptic Technique Airway Management Assisted Ventilation Cardiopulmonary Resuscitation Defibrillation and External Cardiac Pacing Observations Pain Assessment Management Respiratory Therapy Spinal Management and Venepuncture Each chapter provides the relevant anatomy physiology evidence based rationales for each procedure and contraindications of use Key features The first UK text to explore clinical procedures for paramedics With further reading and illustrations throughout All procedures include the rationale for the action recommended Guides paramedics in the clinical application of evidence based procedures *Technical Manual* United States Department of the Army, 1970 *Manual of Critical Care Nursing - E-Book* Marianne Saunorus Baird, 2021-10-13 Selected for Doody's Core Titles 2024 in Critical Care Coverage of more than 75 disorders most commonly seen in progressive and critical care settings equips you with all the content needed to handle problems in critical care nursing Consistent easy to use format mirrors a practicing nurse's approach to patient care and facilitates quick reference to vital information Diagnostic Tests tables highlight the definition purpose and abnormal findings for each test Gerontologic considerations and bariatric considerations are highlighted throughout to direct attention to patients with unique needs in critical care settings NOC outcomes and NIC interventions apply standardized nursing taxonomies to the disorders and conditions most commonly encountered in progressive and critical care settings Portable size makes it ideal for use on the unit or at the bedside Safety Alert and High Alert boxes call attention to issues vital to patient safety *Nursing Diagnosis Handbook* Betty J. Ackley, MSN, EdS, RN, Gail B. Ladwig, MSN, RN, 2013-02-13 The 10th edition of the Nursing Diagnosis Handbook makes formulating nursing diagnoses and creating individualized care plans a breeze Updated with the most recent NANDA I approved nursing diagnoses this convenient reference shows you how to build customized care plans in three easy steps assess diagnose plan Authors Elizabeth Ackley and Gail Ladwig use Nursing Outcomes Classification NOC and Nursing Interventions Classification NIC to guide you in creating care plans that include desired outcomes interventions patient teaching and evidence based rationales Unique Care Plan Constructor on the companion Evolve website offers hands on practice creating customized plans of care Alphabetical thumb tabs allow quick access to specific symptoms and nursing diagnoses Suggested NIC interventions and NOC outcomes in each care plan

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Manual of Critical Care Nursing Marianne Saunorus Baird, 2015-10-01 The compact yet comprehensive Manual of Critical Care Nursing Nursing Interventions and Collaborative Management 7th Edition is your students a go to reference for to help you provide safe high quality nursing care in the clinical critical care settings Written in an abbreviated outline format this easy to use Manual presents essential information on more than 75 disorders and conditions as well as concepts relevant to caring for all critically ill patients and functioning in the critical care environment Award winning clinical nurse specialist Marianne Baird separates the content first by body system and then by disorder with each disorder including a brief description of pathophysiology assessment diagnostic testing collaborative management nursing diagnoses desired outcomes nursing interventions and patient teaching and rehabilitation With the latest NANDA I nursing diagnoses and new sections on Bariatric Considerations and Caring for the Elderly this practical manual is designed to help critical care nurses and nursing students better care for any critically ill patient Coverage of more than 75 disorders most commonly seen in critical care units Consistent easy to use format facilitates quick reference so you can find information exactly where you expect it to be Portable size makes it ideal for use in the unit or bedside and is also easy to carry on campus Research Briefs boxes present abstracts of selected research studies and emphasize the use of evidence to guide care recommendations NANDA approved diagnoses are marked with an icon to familiarize you with NANDA terminology Chapters mirror a practicing nurse's approach to patient care making it quicker and easier to find information Diagnostic Tests tables highlight the definition purpose and abnormal findings for each test Collaborative Management tables concisely summarize relevant performance measures while incorporating the best available patient care guidelines Safety Alert and High Alert icons call attention to issues important to a patient's safety Chapter outlines display major heads care plans and their respective page

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Nursing Diagnosis Handbook - E-Book Betty J. Ackley, Gail B. Ladwig, 2013-01-20 The 10th edition of the Nursing Diagnosis Handbook makes formulating nursing diagnoses and creating individualized care plans a breeze Updated with the most recent NANDA I approved nursing diagnoses this convenient reference shows you how to build customized care plans in three easy steps assess diagnose plan Authors Elizabeth Ackley and Gail Ladwig use Nursing Outcomes Classification NOC and Nursing Interventions Classification NIC to guide you in creating care plans that include desired outcomes interventions patient teaching and evidence based rationales Unique Care Plan Constructor on the companion Evolve website offers hands on practice creating customized plans of care Alphabetical thumb tabs allow quick access to specific symptoms and nursing diagnoses Suggested NIC interventions and NOC outcomes in each care plan Recent and classic research examples promote evidence based interventions and rationales NEW 4 Color text NEW Includes updated 2012 2014 NANDA I approved nursing diagnoses NEW Provides the latest NIC NOC interventions and rationales for every care plan NEW QSEN Safety interventions and rationales NEW 100 NCLEX exam style review questions are available on the companion Evolve website NEW Root Cause Thinking and Motivational Interviewing appendixes on the companion Evolve website **Alexandria wound care manual** IBRAHIM AHMED MUHAMMED ELSHERBINI, Mustafa Mohamed Abdelfatah Elkamah, 2023-01-01 To ensure the correct assessment and management of patients with wounds Starting a clinical audit is challenging for young physicians and interns they always wonder what are the steps can we have an example In that brief paper I will put a flexible modifiable and easy frame to help them achieve an accurate and rewarding clinical audit **Technical Manual** United States. War Department, 1970-11 **Sheehy's Manual of Emergency Care - E-Book** Emergency Nurses Association, 2022-12-30 American Journal of Nursing AJN Book of the Year Awards 1st Place in Critical Care Emergency Nursing 2023 Selected for Doody's Core Titles 2024 in Emergency Care Sheehy's Manual of Emergency Care 8th Edition offers complete up to date coverage of the essentials emergency nurses need to know Each condition commonly seen in the emergency setting is thoroughly addressed from signs and symptoms to diagnosis treatment developmental considerations patient education and more Updated material and easy to reference contents make this resource a must have for current practice Quick reference format is ideal for updating emergency nursing knowledge and improving patient care Detailed discussions for each condition include signs and symptoms diagnosis diagnostic testing treatment interventions age

developmental considerations and patient family education discharge instructions Authorship from the Emergency Nurses Association for more than 30 years ensures this book is a mainstay for best practices in emergency nursing Content presented in a bulleted format provides quick and easy access to vital information Practice points highlighted in special boxes offer quick reference to important content NEW Restructured table of contents presents anatomically related medical and trauma chapters sequentially for quick reference NEW Considerations for critical care in the ED NEW Considerations for the transgender patient NEW Section on human trafficking in the Interpersonal Violence and Abuse chapter NEW Section on violent risk assessment in the Workplace Violence chapter NEW Color photos insert visually highlights and clarifies key content EXPANDED Substance Abuse and Addiction Emergencies chapter covers methamphetamines bath salts marijuana edibles opioid abuse prescription drug abuse heroin Narcan and substance abuse disorder EXPANDED Chapter on end of life includes information on palliative care considerations UPDATED Infectious Diseases chapter addresses coronavirus 19 COVID 19 Ebola and vector borne malaria

Policy and Procedural Guidelines for Hyperbaric Facilities Laura Josefsen, 2017-06-29 The field of hyperbaric medicine along with hyperbaric centers throughout the United States and abroad continues to grow This growth has been exponential touting an increase from 350 centers in 1993 to well over 2 500 programs today With this progression exists a need to establish a resource guideline for developing complete and comprehensive policies and procedures for clinical hyperbaric units Hyperbaric policy and procedures provide the guiding principles and foundation for safety quality transparency and cost effective hyperbaric medical and nursing practice Every hyperbaric facility needs to follow its specific policies and procedures Policy and Procedural Guidelines for Hyperbaric Facilities provides needed resource and reference guidelines for new and established hyperbaric facilities It will serve as a reference for the development of new hyperbaric policies as well as customize and enhance current policies and procedures already in place Policy and Procedural Guidelines for Hyperbaric Facilities addresses issues of safety and practice for both the multiplace and monoplace environments It utilizes regulatory guidelines and standards of practice as its foundation Topics covered in this work include but are not limited to governance administration emergency procedures patient care hyperbaric chamber maintenance treatment protocols and quality improvement The appendices include sample forms for both Class A multiplace and Class B monoplace chambers They are intended to serve as templates for development of hyperbaric unit specific forms Also included are acronyms references and an index all specific to hyperbaric medicine The guidelines provided in this document will benefit the diverse group of physicians nurses technicians and allied health care personnel in the hyperbaric field as they customize their unit specific policies and procedures The contributing authors are comprised of established experts in the field of undersea and hyperbaric medicine They are a diverse group of physicians nurses and technologists who devoted an extensive amount of time and energy into producing this resource document of the highest quality Specific acknowledgements can be found in the List of Contributors section of the book Endorsement from

Baromedical Nurses Association BNA The Baromedical Nurses Association established 1985 provides a forum for hyperbaric nursing that encompasses quality safety teamwork mentoring research education and nursing guidelines of standards of care for the patient receiving hyperbaric oxygen therapy The Baromedical Nurses Association endorses the Policy and Procedural Guidelines for Hyperbaric Facilities as guidelines to enable hyperbaric facilities to develop and or endorse their unit specific policies

The Great Ormond Street Hospital Manual of Children and Young People's Nursing Practices Elizabeth Anne Bruce, Janet Williss, Faith Gibson, 2023-03-13 Clinical skills are essential in the provision of care for children and young people The Great Ormond Street Hospital Manual of Children and Young People's Nursing Practices provides expert guidance on evidence based clinical procedures helping students and newly registered nurses develop sound clinical judgement and confidence This comprehensive resource covers all aspects of children's nursing from the fundamentals of everyday practice to advanced care in high dependency and intensive care settings As such its relevance and usefulness reach beyond those newly registered it remains a valuable resource for experienced nurses wishing to further expand their nursing skills Now in its second edition this thoroughly updated guide demonstrates each procedure explains the underlying theory and evidence and speaks to the unique challenges of working with children and young people New chapters address mental health complementary therapies learning difficulties and the deteriorating child whilst expanded content examines blood glucose monitoring glucocorticoid treatment insulin administration diabetes care surgical diathermy non invasive ventilation and much more Key Features Provides evidence based guidelines for more than 300 clinical procedures Features an abundance of colour photographs and illustrations Examines the needs of neonates and adolescents in the context of interdisciplinary care Includes new material on health research and evidence based practice stages of development children with complex needs and admission transfer and discharge Complements The Royal Marsden Manual of Clinical Nursing Procedures offering continuity to those working in both adult and paediatric settings The second edition of The Great Ormond Street Hospital Manual is an indispensable resource for registered nurses students and other healthcare professionals involved in delivering clinically effective evidenced based family centred care Praise for the previous edition This manual builds on the knowledge skills and expertise of one of the UK's finest children's hospital and explains comprehensive evidence based care clearly Nursing Children and Young People Journal All children's nurses should have this book as a reference Nursing Standard a comprehensive resource for all qualified nurses students and other healthcare professionals involved in caring for children in hospital and community settings Times Higher Education Supplement

Manual of Oxygen Therapy Techniques Including Carbin Dioxide, Helium and Water Vapor Albert Henry Andrews, 1947

The Royal Marsden Manual of Clinical Nursing Procedures, Professional Edition Sara Lister, Justine Hofland, Hayley Grafton, 2020-07-07 Now in its tenth edition The Royal Marsden Manual of Clinical Nursing Procedures has been the definitive market leading guide to clinical nursing skills for over three decades This internationally best selling title sets the gold standard for nursing care

providing the procedures rationale and guidance required by qualified nurses to deliver clinically effective patient focused care with expertise and confidence With over two hundred detailed procedures this comprehensive manual presents the evidence and underlying theory alongside full colour illustrations and photographs and includes coverage of infection prevention and control perioperative care wound management nutrition diagnostic testing discharge medicines management and much more Loved and trusted by millions for over thirty years The Royal Marsden Manual of Clinical Nursing Procedures continues to be a truly indispensable guide for nursing practice Written by nurses for nurses Empowers nurses to become informed skilled practitioners Reflects current procedures and changes in modern adult nursing practice All procedures are supported by up to date evidence including detailed rationales for each step of each procedure Considers the clinical governance around the procedures and nursing practice NEW to the Tenth Edition Each chapter is linked to the NMC 2018 Future Nurse Standards of Proficiency for Registered Nurses guidance Includes a brand new chapter on Self Care and Wellbeing helping nurses to care for themselves emotionally and physically The Royal Marsden Manual is also available online fully searchable and annotatable www.rmmonline.co.uk

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transport ions from high concentration to low concentration transport ions such as sodium na potassium k calcium ca 2 and chloride cl because ions are not soluble in

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