









Normal Lab Values Page 2

Blood Coagulation Studies  Blue Tube				
Blood Test	Abbrev.	Normal Range	Unit	Notes
Prothrombin Time	PT	12 - 13	Seconds	High= should only be higher if patient is on blood thinning med such as Coumadin/Warfarin.
Partial Thromboplastin Time	PTT	30 - 40	Seconds	High= Possible blood clotting disorder. PTT level is also used to monitor Heparin Therapy.
International Normalized Ratio	INR	0.8 - 1.2		Calculated with PT test. Normal INR is 0.8 - 1.2. Normal Coumadin/Warfarin INR is 2 - 3.
D-Dimer	DDi	0 - 0.5	ng/mL	High= Indicates that there may be blood clot somewhere in body. Seen with PE, DVT, Stroke.
"ABG" / "VBG" - Arterial Blood Gas / Venous Blood Gas Use Heparin Syringe				
Potential of Hydrogen	pH	7.35 - 7.45		High= Alkalosis Low= Acidosis
Partial Pressure of CO ₂	CO ₂	35 - 45	mmHg	High= CO ₂ leads to acidosis, confusion, fatigue. BiPAP machine or vent used to balance CO ₂ .
Bicarbonate	HCO ₃	22 - 26	mEq/L	High= Not enough CO ₂ in the blood. Low= indicates organ failure, usually kidney.
Saturation of Oxygen	SaO ₂	94 - 100	%	This is also measured with a pulse oximeter. 88 - 90% level seen with COPD patients.
Lactic Acid	Lactic	Arterial: 0.5 - 1.6 Venous: 0.5 - 2.2	mEq/L	High= High lactic acid is seen with patients who are in acidosis usually caused by sepsis, hypoxia, DKA or have organ failure. Can also be drawn separately in grey tube and placed on ice for lab.
Partial Pressure of O ₂	PaO ₂	80 - 100	mmHg	Low= hypoxia. It is measured in arterial blood. If widely different than SaO ₂ , check equipment.
Cholesterol / Lipid Panel  Green Tube				
Low Density Lipoprotein	LDL	Below 130	g/d	High= Not good. This is the "bad" cholesterol. Can lead to hardened or clogged blood vessels.
High Density Lipoprotein	HDL	Above 50	U/L	This is the "good" cholesterol. The HDL helps remove the bad cholesterol from blood vessels.
Triglycerides	Tg	Below 150	U/L	High= Bad. Triglycerides are a type of fat. Too much can lead heart disease, diabetes.
Cholesterol, Total	Chol	Below 200	U/mL	Formula: Total HDL = LDL + 20% of Triglycerides. Optimal number is below 200.
Cardiac Enzymes / Markers  Green Tube  BNP				
Troponin	Trop	0 - 0.015	mEq/L	Most common blood test to determine heart attack / MI. High= Cardiac muscle damage.
Creatinine Kinase	CK-MB	0 - 3	%	Older, less reliable test than Troponin. High = Cardiac muscle or skeletal muscle damage.
Brain Natriuretic Peptide	BNP	0 - 100	pg/mL	High = Heart Failure/CHF. Look for shortness of breath, "wet" cough, swelling in legs (edema).
Kidney Function   Green, Gold, or Tiger Tube				
Blood Urea Nitrogen	BUN	7 - 20	mg/dL	High = Kidney Problem. Elevated Urea in the blood means the kidneys are not filtering it out.
Creatinine	Creat	0.8 - 1.2	mg/dL	Same as above. High Creatinine in blood means the kidneys are not filtering it out.
Glomerular Filtration Rate	GFR	Greater than 90	mg/g	Used to determine stage of kidney failure. Stage 2: 60-89; 3: 30-59; 4: 15-29; 5: <15

*Important. Although these labs are color coded, lab values and tube colors can vary by institution. Always follow your facility's policy regarding lab values and order of draw.

Lab Value Interpretation For Nurses

Lizzy Seina Walters



Lab Value Interpretation For Nurses:

Normal Lab Values for Nurses Cindy B Smith, 2019-06 LAB VALUES FOR NURSES The need for medical practitioners to understand the importance of laboratory tests in medical decision making cannot be overemphasized Nurses and doctors will always come across different laboratory results in their practice and these results are interpreted based on their knowledge of the various normal laboratory values Normal Lab values for Nurses is a book written by Cindy B Smith to aid nurses and nursing students interpret different laboratory investigations with ease Understanding normal Laboratory values aid in the diagnosis management and monitoring the effectiveness in the treatment of disease conditions Misinterpretation of a laboratory test results in clinical practice can lead to wrong treatment routine which could jeopardize the patient's safety This book also provides the necessary information and Lab Value Quiz to aid nursing students to pass the NCLEX at first try What else will you get in the book Obtaining Lab Samples Correctly Laboratory Blood Bottle Guide Hematological Tests Values Tests for Cardiac Disease Renal Function Tests Test for Liver Gastrointestinal Function Serum Electrolytes Tests Arterial Blood Gas ABG Analysis Serological Tests Tests for Endocrine Function Tests for Malignant Conditions Tumor Markers Body fluid Stool Analysis Tests for Other Conditions and lots more Need to ace your NCLEX with ease Just scroll up and hit the Buy Now button This book can be easily read on an iPad tablet Computer or Kindle Device Also available is the audiobook version

Lab Values Interpretation Nurse Academy, 2021-01-13 This is the official textbook on Lab Values Interpretation created by Nurse Academy Are you looking for a guide to quickly learn how to interpret laboratory values If so this is the right book for you Lab Values Interpretation is a simple and easy to understand book that introduces the concept of lab values and their corresponding interpretations to those that are looking for a simple overview of the subject matter while also providing a quick recap of the most important information for those that just want to refresh their memories The skill of being able to interpret laboratory investigations and understanding the science behind them is very important in the medicine field It is said that approximately 65-75% of decision making in medicine is done based on the results of laboratory tests Hence there is immense pressure on the need for health practitioners to correctly interpret lab values and what they mean in terms of a patient's health This book is meant to alleviate some of those pressures by explaining the lab values of the most common tests Laboratory values essentially provide data in an objective form that relates to the patient's health Therefore they can aid in the early diagnosis of diseases that have not yet had clinical manifestations thereby leading to more effective management of such conditions They can also aid in monitoring the progress of various diseases so that treatment can be modified accordingly Needless to say insufficient understanding of laboratory tests in a clinical setting can lead to misinterpretation of results which in turn will jeopardize patient safety In this book you will Get an in depth understanding of what lab values are and how they are determined Learn how to correctly interpret the lab values of over 35 lab tests Be able to objectively measure your patient's health Use your new skills every single day at work Be able to use this book as a point

of reference for the normal range of lab values Be able to test your knowledge with some questions that have been added to the last two chapters in the book Nurse Academy **Lab Values Interpretation** Nurse Academy,2021-01-11 This is the official textbook on Lab Values Interpretation created by Nurse Academy Are you looking for a guide to quickly learn how to interpret laboratory values If so this is the right book for you Lab Values Interpretation is a simple and easy to understand book that introduces the concept of lab values and their corresponding interpretations to those that are looking for a simple overview of the subject matter while also providing a quick recap of the most important information for those that just want to refresh their memories The skill of being able to interpret laboratory investigations and understanding the science behind them is very important in the medicine field It is said that approximately 65 75% of decision making in medicine is done based on the results of laboratory tests Hence there is immense pressure on the need for health practitioners to correctly interpret lab values and what they mean in terms of a patient s health This book is meant to alleviate some of those pressures by explaining the lab values of the most common tests Laboratory values essentially provide data in an objective form that relates to the patient s health Therefore they can aid in the early diagnosis of diseases that have not yet had clinical manifestations thereby leading to more effective management of such conditions They can also aid in monitoring the progress of various diseases so that treatment can be modified accordingly Needless to say insufficient understanding of laboratory tests in a clinical setting can lead to misinterpretation of results which in turn will jeopardize patient safety In this book you will Get an in depth understanding of what lab values are and how they are determined Learn how to correctly interpret the lab values of over 35 lab tests Be able to objectively measure your patient s health Use your new skills every single day at work Be able to use this book as a point of reference for the normal range of lab values Be able to test your knowledge with some questions that have been added to the last two chapters in the book Additionally in this book you will learn the interpretation of the lab values of tests that include the following Basic Chemistry Panel Cardiovascular testing Endocrine testing Liver and Kidney testing Pregnancy and Genetic testing Hematology and Oncology testing Immunology testing Pulmonary testing As well as Gastrointestinal tests With this book you can say goodbye to any jittery feeling you might previously have whenever you try to interpret lab values because this book will allow you to analyze lab values gotten from lab tests in a confident and fearless manner Purchase this book now and begin learning how to interpret lab values of over 35 tests easily and correctly Don t forget to drop a review if you enjoy the book and recommend the book to your fellow medical practitioners so that they can benefit from the knowledge in the book We look forward to your feedback Nurse Academy **Lab Values** Jon Haws,Sandra Haws,2015-02-03 Save Time Lab Values for Nurses 1 Best Selling Nursing Reference Book on AmazonWant to study better but don t have the time This book outlines the 63 MUST KNOW lab values for nurses to help them prepare for the NCLEX r and care for patients on the floor Whether you are a student nurse or an experience this book contains the information you need to know to provide superior patient care Charts Brief Descriptions

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because this book will allow you to analyze lab values gotten from lab tests in a confident and fearless manner Purchase this book now and begin learning how to interpret lab values of over 35 tests easily and correctly Don t forget to drop a review if you enjoy the book and recommend the book to your fellow medical practitioners so that they can benefit from the knowledge in the book We look forward to your feedback Nurse Academy *Basic Skills in Interpreting Laboratory Data* Mary Lee,2009-02-26 This new edition of Basic Skills in Interpreting Laboratory Data 4th Edition is a case based learning tool that will enhance your skills in clinical lab test interpretation It provides fundamentals of interpreting lab test results not only for pharmacy students but also for practitioners as an aid in assessing patient drug treatment responses It is the only text written by and for pharmacists and provides case studies and practical information on patient therapy Since the publication of the third edition much has changed in the clinical lab and in the hospital pharmacy Consequently the new fourth edition incorporates significant revisions and a wealth of important new information NEW TO THIS EDITION Three new chapters including new information on men s health women s health and pharmacogenomics and laboratory tests Mini cases embedded in each chapter provide therapy related examples and reinforce important points made in the text Quickview Charts give an overview of important clinical information including reference ranges and critical values Learning Points focus on a clinical application of a major concept present in the chapter **The Ultimate Clinical Judgment Workbook for Nursing Students** Lizzy Seina Walters, This comprehensive nursing guide is designed to empower nursing students recent graduates and early career professionals with the skills and confidence needed to excel in clinical settings The book covers a wide range of essential nursing competencies from patient assessment and wound care to IV therapy medication administration and critical thinking in high pressure situations Each chapter presents step by step breakdowns real life case studies and practical examples to enhance learning while self assessment quizzes reinforce understanding and promote hands on application In addition to clinical skills this book delves into vital areas such as patient education communication ethical decision making and stress management providing readers with a holistic approach to nursing A special focus on clinical judgment and prioritization helps nurses develop sound decision making skills enabling them to respond effectively to complex patient care scenarios The final comprehensive quiz serves as a capstone self assessment allowing readers to test their knowledge across all key areas With clear explanations practical tips and reflective exercises this book is an indispensable resource for anyone entering the nursing profession or preparing for certification exams It not only reinforces foundational knowledge but also promotes critical thinking and continuous improvement helping nurses transition seamlessly from study to practice **Lab Values for Nurses** Gabriel J. Connor,2021-02 STRUGGLING TO REMEMBER LAB VALUES EFFICIENTLY Are you looking for just the right amount of information physiology so you remember a simple step by step approach to Lab values interpretation MASTER THE LAB VALUES FOR NURSES TODAY WITHOUT MEMORIZATION BUT FIRST A WARNING Before we go further let me make something abundantly clear This book does not contain a magic wand

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Perianesthesia Nursing Care Daphne Stannard, Dina A. Krenzischek, 2016-09-01 Perianesthesia Nursing Care A Bedside Guide for Safe Recovery Second Edition is an essential reference for clinicians caring for perianesthesia patients in a variety of situations such as in a preop and postanesthesia care unit PACU an intensive care unit ICU a procedural recovery area or on a labor and delivery unit Ideal for perianesthesia nursing orientation and perioperative cross training programs it is also a valuable tool for nursing students preparing to sit for the Certified Post Anesthesia Nursing CPAN and Certified Ambulatory Perianesthesia Nurse CAPA certification examinations With contributions from leading experts this reference addresses common clinical issues population specific knowledge and surgery specific knowledge The Second Edition includes a new chapter on trauma an increased emphasis on non OR areas and an extended focus on pediatric patients **CLINICAL LAB EXCELLENCE Techniques, Tools & Troubleshooting** Mrs. AMAN ATIAH ALBELADI, Mrs. WJDAN TURKI ALDAAJANI, Ms. DHUHA MOHAMMED ALKHURIJY, Mrs. ALANOUD MOHAMMED ALABOUD, Clinical laboratories are vital to the accurate diagnosis successful treatment and continuous monitoring of disease Technological advancements have ushered laboratories into an era where precision quality and efficiency are more vital than ever The book Clinical Lab Excellence Techniques Tools Troubleshooting has been developed to be a compendium for laboratory professionals educators students and other stakeholders in healthcare who embrace the concept of clinical laboratory excellence From basic techniques and SOPs to cutting edge tools and equipment in applied and basic clinical laboratory settings this book addresses a broad range of high priority areas Also highlights the rise business critical focus areas such as quality

automation biosafety regulatory compliance Additionally practical troubleshooting strategies have been emphasized providing the usual errors and technical issues that are faced on a regular basis in the laboratory and their solutions The great thing about this book is that it also provides real face value rooted in fundamental craft from an integrated approach Whether you are a beginner wanting to develop a solid foundation or an experienced user or developer looking to hone your skills there will be something of value in these pages for you I salute my fellow lab scientists pathologists technologists and quality managers who toil day in and day out behind the scenes to make sure medical diagnoses are as reliable and credible as possible This book owes much to those who aspire to accuracy safety and patient care and their dedication continues to influence its contents and purpose Clinical Lab Excellence Techniques Tools Troubleshooting I hope will play a part in advancing the never ending quest for excellence and that the reader should have the means to uphold the highest standards of clinical laboratory practice *Ebersole & Hess' Toward Healthy Aging E-Book* Theris A. Touhy, Kathleen F Jett, 2019-08-24

Ensure you thoroughly understand the intricate details of providing effective care for adults as they age Ebersole Hess Toward Healthy Aging 10th Edition is the only comprehensive gerontological nursing text that effectively communicates how to provide holistic care promote healthy lives and address end of life issues and concerns Grounded in the core competencies recommended by the AACN in collaboration with the Hartford Institute for Geriatric Nursing the tenth edition has been extensively revised and updated with shorter more streamlined chapters and pedagogical features to facilitate learning It covers the areas of safety and ethical considerations genetics communication with the patient and caregiver promoting health in persons with conditions commonly occurring in later life world wide addressing loss and palliative care and much more Special sections provide an honest look at the universal experience of aging and the nurse s role in the reduction of health disparities and inequities as a member of the global community Plus it contains a variety of new learning features that focus on applying research and thinking critically in when providing care to aging adults across the care continuum **Lab Values & ABG Interpretation Nursing Flashcards** Level Up, 2022-10 The Lab Values Flashcards were designed to help nursing students learn and retain the most important lab value ranges required to pass the ATI NCLEX or HESI exams and are a helpful reference for practicing RNs PNs and other medical professionals No more flipping through textbooks to find normal lab value ranges Instead spend time understanding the significance of the lab values These flashcards contain lab value ranges and provides the significance of high low values for the following Arterial blood gases lab values and interpretation Electrolytes Cardiac labs values Hematologic labs values Gastrointestinal labs values Renal labs values Endocrine labs values **NCLEX-RN Physiological Integrity Exam Prep** Lizzy Seina Walters, 2024-10-16 NCLEX RN Physiological Integrity Exam Prep Prepare for success on the NCLEX RN exam with this comprehensive guide focused on the Physiological Integrity domain This book offers 350 practice questions with detailed explanations covering key areas such as basic care and comfort pharmacological and parenteral therapies risk reduction and physiological adaptation Each chapter is designed

to help nursing students understand essential concepts and apply them to real world scenarios From managing complex conditions to ensuring patient safety this guide provides the tools needed to confidently approach the NCLEX RN Whether you re just starting your preparation or looking for targeted review this study guide simplifies difficult topics and reinforces critical knowledge Perfect for both first time test takers and those seeking to refine their understanding it is an essential resource for mastering the Physiological Integrity portion of the NCLEX RN exam

Pharmacology for Nurses Tina Barbour-Taylor, Leah Mueller (Sabato), Donna Paris, Dorie Weaver, 2024-05-15 *Pharmacology for Nurses* is intended for nursing students in an introductory program It provides a fundamental understanding of the therapeutic use of drugs so the nurse can provide safe and effective care to the client Along with a discussion of each body system the text also reviews the pathophysiology of various disease processes and medications used in treatment The table of contents presents 40 chapter topics organized into 11 units The first unit consisting of 3 chapters provides a broad overview of pharmacology with the following 10 units focused on specific body systems *Pharmacology for Nurses* helps students prepare for the licensing exam and their careers by offering applicable real life content in short manageable sections The material focuses on common client conditions that nurses will encounter throughout their career and embraces a skills orientation what does a nurse do The text presents information in a holistic manner that ties the disease process to its pharmacological treatment As a result *Pharmacology for Nurses* will give students the confidence to safely administer medications to clients as well as provide medication education to clients and their caregivers This is an adaptation of *Pharmacology for Nurses* by OpenStax You can access the textbook as pdf for free at openstax.org Minor editorial changes were made to ensure a better ebook reading experience Textbook content produced by OpenStax is licensed under a Creative Commons Attribution 4.0 International License

[Fast Facts for the Student Nurse](#) Susan Stabler-Haas, 2012-05-17 Print CourseSmart [ATI TEAS 7 Study Guide](#) Calvin Yates, Are you ready to take the first step toward your nursing career but unsure where to start with preparing for the ATI TEAS 7 exam This comprehensive guide is designed to help you not only understand the structure of the exam but to excel in every section Whether you re a first time test taker or someone looking to improve their score this book offers you the tools and strategies necessary to tackle this critical hurdle in your nursing school application process The ATI TEAS 7 exam is an essential part of your nursing journey assessing your proficiency in key areas such as Reading Mathematics Science and English and Language Usage With detailed explanations test taking strategies and hundreds of practice questions this book offers more than just content review It provides a roadmap for effective studying helping you organize your time and focus on the areas that matter most Inside you ll find a deep dive into each subject area The Reading section teaches you how to improve your comprehension skills identify key details and interpret complex passages The Mathematics section covers everything from basic arithmetic to more advanced concepts like algebra and geometry with strategies to solve problems quickly and accurately In the Science section you ll explore human anatomy biology chemistry and scientific

reasoning breaking down complex topics into understandable chunks The English and Language Usage section focuses on grammar sentence structure and vocabulary ensuring you can clearly communicate ideas and effectively navigate language based questions This guide doesn't just help you study it shows you how to study With tips for managing time handling test anxiety and utilizing your calculator effectively you'll learn how to approach the exam strategically You'll gain insight into how to break down multiple choice questions identify key terms and ensure that every answer you choose reflects your true understanding To put everything into practice the book includes 200 practice questions with detailed answers and explanations These questions will test your knowledge strengthen your weaknesses and help you build the confidence you need to succeed This guide is your key to unlocking your potential on the ATI TEAS 7 exam and setting the stage for a successful career in nursing With the right tools dedication and preparation you can face the exam with confidence and take one step closer to your dream

Nursing and Computers Virginia K. Saba, Dorothy B. Pocklington, Kenneth P. Miller, 2012-12-06 Nursing and Computers An Anthology 1987 1996 is a compilation of both landmark historic and contemporary papers illustrating the inception and evolution of nursing informatics The editors have collected these newly published independent papers and assembled them into an invaluable source book providing a framework for future developments in the field of Nursing Informatics It will be an essential tool for nurses seeking to attain credentials as Nursing Informatics Specialists The articles demonstrate representative experiences and philosophies in the field attempting to maintain and expand upon the current knowledge base of computer technology in nursing Examining the relationship between nursing and information systems practical applications include administration practice research education critical care and community health

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