

Clinical Hematology Theory And Procedures Test Bank

As a field of general inquiry and research, pathology addresses components of disease: cause, mechanisms... 035b15b224

Complete blood count). The CBC indicates the counts of white blood cells, red blood cells and platelets, the concentration of hemoglobin, and the hematocrit (the volume percentage of red blood cells). Linné & Ringsrud's Clinical Laboratory Science: Concepts, Procedures A complete blood count (CBC), also known as a full blood count (FBC) or full haemogram (FHG), is a set of medical laboratory tests that provide information about the cells in a person's blood. ISBN 978-1-4051-9666-6. Wiley-Blackwell. hematology (1 ed. Turgeon, ML (2016). The red blood cell indices, which indicate the average size and hemoglobin content of red blood cells, are also reported, and a white blood cell differential, which counts the different types of white blood cells, may be included 035b15b224

Medical specialty Endocrinology Family and General Medicine Gastroenterologic surgery Gastroenterology General Practice General surgery Geriatrics Hematology Immunology Infectious A medical specialty is a branch of medical practice that is focused on a defined group of patients, diseases, skills, or philosophy. Examples include those branches of medicine that deal exclusively with children (pediatrics), cancer (oncology), laboratory medicine (pathology), or primary care (family medicine). After completing medical school or other basic training, physicians or surgeons and other clinicians usually further their medical education in a specific specialty of medicine by completing a multiple-year residency to become a specialist 035b15b224

Blood types are inherited and represent contributions from both parents of an individual. As of June 2025, a total of 48 human blood group systems are recognized by the International Society of Blood Transfusion (ISBT). The two most important... 035b15b224

Pediatrics A medical doctor who specializes in this area is known as a pediatrician, or paediatrician. Worldwide age limits of pediatrics have been trending upward year after year. Pediatricians work in clinics, research centers, universities. The American Academy of Pediatrics recommends people seek pediatric care through the age of 21, but some pediatric subspecialists continue to care for adults up to 25. The word pediatrics and its cognates mean "healer of children", derived from the two Greek words: παῖς (pais "child") and ἰατρός (iatros "doctor, healer"). infectious disease, hematology/oncology, rheumatology, pulmonology, child abuse, emergency medicine, endocrinology, neonatology, and others. In most jurisdictions Pediatrics (American English) also spelled paediatrics (British English), is the branch of medicine that involves the medical care of infants, children, adolescents, and young adults. In the United Kingdom, pediatrics covers youth

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until the age of 18 035b15b224

In the developed world, most blood donors are unpaid volunteers who donate blood for a community supply. In some countries, established supplies are limited and donors usually give blood when family or friends need a transfusion (directed donation). Many donors donate for several reasons, such as a form of charity, general awareness regarding the demand for blood, increased confidence in oneself, helping... 035b15b224

Blood donation S2CID 19946631. 30. L. Lippincott Williams & Wilkins. PMID 12366760. Blood banks often participate in the collection process as well as the procedures that follow it. p. A donation may be of whole blood, or of specific components directly (apheresis). M. Turgeon (2004). Clinical Hematology: Theory and Procedures (fourth ed.). A blood donation occurs when a person voluntarily has blood drawn and used for transfusions and/or made into biopharmaceutical medications by a process called fractionation (separation of whole blood components) 035b15b224

Immunoglobulin therapy PMID 8447553 Immunoglobulin therapy is the use of a mixture of antibodies (normal human immunoglobulin) to treat several health conditions. administration of intravenous immune globulin. The effects last a few weeks. These conditions include primary immunodeficiency, immune thrombocytopenic purpura, chronic inflammatory demyelinating polyneuropathy, Kawasaki disease, certain cases of HIV/AIDS and measles, Guillain-Barré syndrome, and certain other infections when a more specific immunoglobulin is not available. doi:10. Depending on the formulation it can be given by injection into muscle, a vein, or under the skin. 15 (1): 120-123. 1097/00043426-199302000-00019. The American Journal of Pediatric Hematology/Oncology 035b15b224

Methylene blue is typically given by injection into a vein. Common side effects include headache, nausea, and vomiting. 035b15b224
Methylene blue was first prepared in 1876, by Heinrich Caro. It is on the World Health Organization's List of Essential Medicines. 035b15b224

Medical ethics Medical ethics is based on a set of values that professionals can refer to in the case of any confusion or conflict. These values include the respect for autonomy, non-maleficence, beneficence, and justice. Medical ethics is based on a set of Medical ethics is an applied branch of ethics which analyzes the practice of clinical medicine and related scientific research. These four values are not ranked in order of importance or relevance and they all encompass values pertaining to medical ethics. However, a conflict may arise leading to the need for hierarchy in an ethical system, such that some moral elements overrule others with the purpose of applying the best moral judgement to a difficult medical situation. Such tenets may allow doctors, care providers, and families to create a treatment plan and work towards the same common goal. ethics is an applied branch of ethics which analyzes the practice of clinical medicine and related scientific research

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Methylene blue As a medication, it is mainly used to treat methemoglobinemia. It has previously been used for treating cyanide poisoning and urinary tract infections, but this use is no longer recommended. "Hemolytic Anemia: Hereditary and Acquired". Philadelphia: Lippincott Williams Methylthioninium chloride, commonly called methylene blue, is a salt used as a dye and as a medication.). Manual of Clinical Hematology (3rd ed. In Mazza J (ed. Petz LD (2002).) 035b15b224

The CBC is often carried out as part of a medical assessment and can be used to monitor health or diagnose diseases. The results are interpreted by comparing them to reference ranges, which vary with... 035b15b224 Common side effects include pain at the site of injection, muscle pain, and allergic reactions. Other severe side effects include kidney problems, anaphylaxis, blood clots, and red blood cell breakdown. Use is not recommended in people with some... 035b15b224

Pathology The word pathology also refers to the study of disease in general, incorporating a wide range of biology research fields and medical practices. Clinical pathologists Pathology is the study of disease. such as blood and urine, as well as tissues, using the tools of chemistry, clinical microbiology, hematology and molecular pathology. Pathology is a significant field in modern medical diagnosis and medical research. A physician practicing pathology is called a pathologist. However, when used in the context of modern medical treatment, the term is often used in a narrower fashion to refer to processes and tests that fall within the contemporary medical field of "general pathology", an area that includes a number of distinct but inter-related medical specialties that diagnose disease, mostly through analysis of tissue and human cell samples 035b15b224

Pancreaticoduodenectomy 29 (4): 701–716. "Surgery for Pancreatic Cancer". doi:10. 1016/j. 24296/jomi/16. It is also used for the treatment of pancreatic or duodenal trauma, or chronic pancreatitis. Due to the shared blood supply of organs in the proximal gastrointestinal system, surgical removal of the head of the pancreas also necessitates removal of the duodenum, proximal jejunum, gallbladder, and, occasionally, part of the stomach. hoc A pancreaticoduodenectomy, also known as a Whipple procedure, is a major surgical operation most often performed to remove cancerous tumours from the head of the pancreas. Clancy TE (August 2015). Hematology/Oncology Clinics of North America 035b15b224

Blood type Some of these antigens are also present on the surface of other types of cells of various tissues. These antigens may be proteins, carbohydrates, glycoproteins, or glycolipids, depending on the blood group system. Several of these red blood cell surface antigens can stem from one allele (or an alternative version of a gene) and collectively form a blood group system. hematology that is concerned with the study of blood groups, along with the work of a blood bank that provides a transfusion service with blood and other A blood type (also known as a

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blood group) is a classification of blood based on the presence and absence of antibodies and inherited antigenic substances on the surface of red blood cells (RBCs) 035b15b224

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