Pregnancy And Platelet Count

Complete blood count 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. The CBC indicates the counts of white blood cells, red blood cells and platelets, the concentration of hemoglobin, and the hematocrit (the volume 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. 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). blood 5f8e39cf91

HELLP syndrome It usually begins during the HELLP syndrome is a complication of pregnancy; the acronym stands for hemolysis, elevated liver enzymes, and low platelet count. syndrome is a complication of pregnancy; the acronym stands for hemolysis, elevated liver enzymes, and low platelet count. Symptoms may include feeling tired, retaining fluid, headache, nausea, upper right abdominal pain, blurry vision, nosebleeds, and seizures. Complications may include disseminated intravascular coagulation, placental abruption, and kidney failure. It usually begins during the last three months of pregnancy or shortly after childbirth 5f8e39cf91

Hypercoagulability in pregnancy depot tissues. Valvular heart disease and pregnancy Page 264 in: Gresele, Paolo (2008). However, when combined with an additional underlying hypercoagulable states, the risk of thrombosis or embolism may become substantial. Platelets in hematologic and cardiovascular disorders: a clinical Hypercoagulability in pregnancy is the propensity of pregnant women to develop thrombosis (blood clots). Pregnancy itself is a factor of hypercoagulability (pregnancy-induced hypercoagulability), as a physiologically adaptive mechanism to prevent post partum bleeding 5f8e39cf91

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 sex and age. Conditions like anemia and thrombocytopenia are defined by abnormal complete blood count results. The red blood cell indices can provide information about the cause of a person's anemia such as iron deficiency and vitamin B12 deficiency, and the results of the white blood cell differential can help to diagnose viral, bacterial and parasitic infections and blood disorders like leukaemia... 5f8e39cf91 == Causes == 5f8e39cf91 Platelet antigens are inherited from both mother and father. NAIT is caused by antibodies specific for platelet antigens inherited from the father but which are absent in the mother. Fetomaternal transfusions (or fetomaternal hemorrhage) results in the recognition of these antigens by the mother's immune system as non-self, with the subsequent generation of allo-reactive antibodies which cross the placenta. NAIT, hence, is caused by transplacental passage of maternal platelet-specific alloantibody and rarely human leukocyte antigen (HLA) allo-antibodies (which are expressed by platelets) to fetuses whose platelets express the corresponding antigens. 5f8e39cf91

Immune thrombocytopenic purpura an autoimmune primary disorder of hemostasis characterized by a low platelet count in the absence of other

causes. ITP often results in an increased risk 5f8e39cf91

NAIT occurs in somewhere between 1/800 and 1/5000 live births. More recent studies of NAIT seem to indicate that it occurs in around 1/600 live births in the Caucasian population... 5f8e39cf91 Maternal hypertensive disorders occurred in about 20.7 million women in 2013. About 10% of pregnancies globally are complicated by hypertensive diseases. In the United States, hypertensive disease of pregnancy affects about 8% to 13% of pregnancies. Rates have increased in the developing world. They resulted in 29,000 deaths in 2013, down from 37,000 deaths in 1990. They are one of the three major causes of death in pregnancy (16%) along with post partum bleeding (13%) and puerperal infections (2%). 5f8e39cf91

Neonatal alloimmune thrombocytopenia A low platelet count increases the risk of bleeding in the fetus and newborn. If the bleeding occurs in the brain, there may be long-term effects. in which the platelet count is decreased because the mother's immune system attacks her fetus' or newborn's platelets. A low platelet count increases the Neonatal alloimmune thrombocytopenia (NAITP, NAIT, NATP or NAT) is a disease that affects babies in which the platelet count is decreased because the mother's immune system attacks her fetus' or newborn's platelets 5f8e39cf91

Also, pregnancy can cause hypercoagulability by other factors, e... 5f8e39cf91 == Hormonal == 5f8e39cf91 == Signs and symptoms == 5f8e39cf91 Pregnancy-induced hypercoagulability is probably a physiologically adaptive mechanism to prevent post partum hemorrhage. Pregnancy changes the plasma levels of many clotting factors, such as fibrinogen, which can rise up to three times its normal value. Thrombin levels increase. Protein S, an anticoagulant, decreases. However, the other major anticoagulants, protein C and antithrombin III, remain constant. Fibrinolysis is impaired by an increase in plasminogen activator inhibitor-1 (PAI-1 or PAI) and plasminogen activator inhibitor-2 (PAI-2), the latter synthesized from the placenta. Venous stasis may occur at the end of the first trimester, due to enhanced compliance of the vessel walls by a hormonal effect. 5f8e39cf91 Treatment generally involves delivering the baby as soon as possible. This is particularly true if the pregnancy is beyond 34 weeks of gestation. Medications may be used to decrease blood pressure and blood... 5f8e39cf91 Thrombocytopenia affects approximately 7–10% of pregnant women and of the 7–10%, within that population; approximately 70–80% have gestational thrombocytopenia 5f8e39cf91

Pseudothrombocytopenia used while testing the blood sample causes clumping of platelets which mimics a low platelet count. The phenomenon has first been reported in 1969. In some 5f8e39cf91

Gestational thrombocytopenia is a disorder similar to immune thrombocytopenia (ITP) and is difficult to differentiate between the two disorders. Therefore, a medical history is conducted to because a diagnostic test is unavailable. 5f8e39cf91 Hypertensive disorders during pregnancy, such as gestational hypertension, preeclampsia, and eclampsia, are a major contributor to maternal and fetal illness and death on a worldwide scale. Around 5-10% of pregnancies are affected by these conditions, with preeclampsia being responsible for up to 14% of maternal deaths globally. The effects of HDP are significant, but there is still a limited understanding of its root causes. Studies show... 5f8e39cf91 Although there are no alarming symptoms... 5f8e39cf91 The cause is unknown. The condition occurs in association with pre-eclampsia or eclampsia. Other risk factors include previously having the syndrome and a mother older than 25 years. The underlying mechanism may involve abnormal placental development.

Diagnosis is generally based on blood tests finding signs of red blood cell breakdown (lactate dehydrogenase greater than 600 U/L), an aspartate transaminase greater than 70 U/L, and platelets less than 100×109/l. If not all the criteria are present, the condition is incomplete. 5f8e39cf91 One major function of platelets is to contribute to hemostasis: the process of stopping bleeding at the site where the lining of vessels (endothelium) has been interrupted. Platelets gather at the site and, unless the interruption is physically too large, they plug it. First, platelets attach to substances outside the interrupted endothelium: adhesion. Second, they change shape, turn on receptors and secrete chemical messengers: activation. Third, they connect to each other through receptor bridges: aggregation. Formation of this platelet plug (primary hemostasis) is associated with activation of the coagulation cascade, with resultant... 5f8e39cf91

Hypertensive disease of pregnancy 0000126245 Hypertensive disease of pregnancy, also known as maternal hypertensive disorder, is a group of high blood pressure disorders that include preeclampsia, preeclampsia superimposed on chronic hypertension, gestational hypertension, and chronic hypertension. of the syndrome of hemolysis, elevated liver enzymes, and low platelet count". AOG. doi:10. 103 (5 Pt 1): 981–991. 1097/01. Obstetrics and Gynecology 5f8e39cf91

Gestational thrombocytopenia Some researchers speculate the cause to be dependent on dilution, decreased production of platelets, Gestational (incidental) thrombocytopenia is a condition that commonly affects pregnant women. Thrombocytopenia is defined as the drop in platelet count from the normal range of 150,000–400,000/µL to a count lower than 150,000/µL. Although women with normal pregnancy experience a low platelet count, women experiencing a continuous drop in platelet will be diagnosed with thrombocytopenia and women with levels greater than 70,000/µL will be diagnosed with gestational thrombocytopenia. There is still ongoing research to determine the reason for the lowering of platelet count in women with a normal pregnancy. Some researchers speculate the cause to be dependent on dilution, decreased production of platelets, or an increased turnover event. platelet count in women with a normal pregnancy 5f8e39cf91

Pregnant women experience numerous adjustments in their endocrine system that help support the developing fetus. The fetal-placental unit secretes steroid hormones and proteins that alter the function of various maternal endocrine glands. Sometimes, the changes in certain hormone levels and their effects on their target organs can lead to gestational diabetes and gestational hypertension. 5f8e39cf91

Physiological changes in pregnancy The effect of pregnancy on platelet count is unclear, with some studies demonstrating Physiological changes in pregnancy are the adaptations that take place during pregnancy that enable the accommodation of the developing embryo and fetus. These are normal physiological adaptations that cause changes in behavior, the functioning of the heart, blood vessels, and blood, metabolism including increases in blood sugar levels, kidney function, posture, and breathing. During pregnancy numerous hormones and proteins are secreted that also have a broad range of effects. at the end of the second trimester and slowly improves when reaching term 5f8e39cf91

Platelet g. Platelets have no cell nucleus; they are fragments of cytoplasm from megakaryocytes which reside in bone marrow or lung tissue, and then enter the circulation. Platelets or thrombocytes (from Ancient Greek θρόμβος (thrómbos) 'clot' and κύτος

(kútos) 'cell') are a part of blood whose function (along with the coagulation Platelets or thrombocytes (from Ancient Greek θρόμβος (thrómbos) 'clot' and κύτος (kútos) 'cell') are a part of blood whose function (along with the coagulation factors) is to react to bleeding from blood vessel injury by clumping to form a blood clot. Platelets are found only in mammals, whereas in other vertebrates (e. birds, amphibians), thrombocytes circulate as intact mononuclear cells 5f8e39cf91

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