

Pdf free Blood platelets clinical relevance .pdf

platelets are small blood cells with several physiological purposes the best studied is thrombosis activation through their clotting activity and activation of the coagulation cascade they are crucial to maintaining adequate blood volume in those with vascular injury a normal platelet count for adults ranges from 150 000 to 450 000 platelets per microliter of blood any count above 450 000 or below 150 000 would be risk factors for platelet related conditions what are common conditions that affect platelets platelet dysfunction caused by most systemic disorders is typically mild and of minor clinical importance in these patients the causative systemic disorder is the clinical concern and hematologic tests are unnecessary however patients with renal failure may develop significant bleeding in our study differences in platelet parameters such as mpv in ami patients scad patients and healthy subjects were analyzed and the significance of these parameters for predicting the disease was investigated platelets are the cells that circulate within our blood and bind together when they recognize damaged blood vessels says marlene williams m d director of the coronary care unit at johns hopkins bayview medical center when you get a cut for example the platelets bind to the site of the damaged vessel thereby causing a blood clot such positive platelet priming has clinical relevance for example it can override the inhibitory effects of aspirin and p2y purinoceptor 12 p2y 12 blockade on platelet function 101 it thus appears that platelets not only serve in concert as building blocks of the hemostatic plug but also act individually as gatekeepers of the vascular wall to help preserve vascular integrity while coordinating host defense it has also been suggested that platelets could promote rejuvenation and the reversal of aging by acting as a fountain of youth 4 although many of these applications are not yet supported by adequate evidence from clinical trials table 1 main classes of substances present in platelet granules and cytosol open in a separate window in this review we discuss the pathophysiological role of platelets and the latest developments in basic and clinical platelet methodologies the platelets influence several aspects of cancer biology including cancer growth and metastasis immune evasion tumor angiogenesis and sometimes the slowing of tumor growth the platelets exert their influence in a variety of ways which are discussed extensively in the reviews in this article we will consider the structure function and clinical relevance of platelets structure platelets originate from megakaryocytes which are the largest progenitor cells of the bone marrow megakaryocytes originate from the common myeloid progenitor fig 1 the cell line of haematopoiesis showing the position of megakaryocytes since the recognition that platelets have an essential role in the pathogenesis of acute coronary syndromes acs and other thrombotic disorders extensive research has been devoted to understanding platelet physiology and to the development of effective antiplatelet therapy pmid 3291975 abstract recent studies on platelet heterogeneity support the hypothesis that platelet production is regulated to maintain a constant functional platelet mass in concept this form of regulation is analogous to the manner by which rbc production is controlled to maintain the oxygen carrying capacity of blood in humans normal platelet counts range from 150 000 μ l to 450 000 μ l the main function of platelets is to maintain vascular integrity thereby playing a crucial role in hemostasis the plasma membrane of platelets is a typical lipid bilayer having an extensive series of complex invaginations termed the canalicular system it is generally accepted that delay in symptomatic

diagnosis is harmful 2 3 one feature of possible cancer has only recently been recognised to have diagnostic potential a raised platelet count or thrombocytosis the clinical significance of platelet microparticle associated micrnas doi 10 1515 cclm 2016 0895 received october 6 2016 accepted november 30 2016 previously published online january 18 2017 abstract circulating blood platelets play a central role in the maintenance of hemostasis 1 from rabin medical center tel aviv university israel elil clalit org il pmid 27698048 doi 10 1161 circulationaha 116 022538 keywords blood platelets platelet aggregation inhibitors platelet activation is the initiation process that mediates inflammation and tumour related functions 6 8 when platelet surface receptors are activated specific precursor mrna splicing will occur resulting in a unique mrna expression profile that can be used for tumour diagnosis and prognosis more recent studies have demonstrated that platelet microparticles function as a transport and delivery system for bioactive molecules participating in hemostasis and thrombosis inflammation malignancy infection transfer angiogenesis and immunity platelets or thrombocytes are small colorless cell fragments in our blood that form clots and stop or prevent bleeding platelets are made in our bone marrow the sponge like tissue inside our bones bone marrow contains stem cells that develop into red blood cells white blood cells and platelets

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