Introduction

Thrombocytopenia is defined as a platelet count below the lower limit of normal (ie, <150,000/microl [150 x 10^9/L] for adults). Degrees of thrombocytopenia can be further subdivided into mild (platelet count 100,000 to 150,000/microL), moderate (50,000 to 99,000/microL) and severe (<50,000/microL). Most common causes of thrombocytopenia are chronic liver diseases, immune thrombocytopenia, congenital platelet disorders, infections, bone marrow disorders, malignancy and drugs. Many of viral and bacterial infections may induce thrombocytopenia. A 30 year old previously healthy man with thrombocytopenia due to parvovirus B19 infection is discussed here. Viral infections should be kept in mind as a cause of thrombocytopenia which is a common laboratory finding.

A 30 year old previously healthy man admitted to emergency room with skin rashes. He had no chronic disease and any drug use. One week before he admitted to hospital he had an upper respiratory flu like infection. After that his body rashes appeared. During this period he did not have used any drugs. At presentation the patient did not have bleeding or any active symptom. He had skin rashes in all extremities. Blood samples revealed 5000/microl platelets, 15.6 mg/dL hemoglobin, 6800/microl white blood cells. Pseudothrombocytopenia was excluded with periferal blood smear. Kidney functions were in normal range in admission. LDH was a near the upper limit (292u/L). Liver enzymes were in normal range. In follow-up, the patient had epistaxis.

He was replaced with one unit of platelet suspension. Platelet count did not increase enough after platelet replacement. We excluded other possible causes of thrombocytopenia. Many of viral and bacterial antigens runned including HIV, HCV, HBV, EBV, CMV, Herpes virus, Helicobacter pylori, Toxoplasma, ParvovirusB19, Brucella. Only Parvovirus B19 IgM resulted positive among them. Then we administrated intravenous immunoglobulin (IVIG) treatment with 1mg/kg/day dose for two days. After IVIG treatment platelets increased to 40000/microl in two days. His skin rashes disappeared in three days after IVIG treatment. Platelet counts increased spontaneously and reached normal range in about one week. In past there are some cases showed possible association between Parvovirus B19 and immune thrombocytopenia. Most cases were seen in childhood or immune compromised patients [1-3].

Our case is 30 years old man and he did not have immunosupression. The most commonly used agents for initial treatment of ITP are glucocorticoids and intravenous immunoglobulin. Intravenous anti-RhD is a type of immune globulin that may be effective in patients who have Rh+ blood group and do not have splenectomy history. We preferred IVIG treatment rather than glucocorticoids because of rapidly increase in platelet count needed for the patient who had epistaxis which might be recurrent. Parvovirus B19 is a rare cause of thrombocytopenia especially for non immunosuppressed adult patients. We point at non-common viral etiology of thrombocytopenia with this case report. Clinicians should be keep in mind that viruses like ParvovirusB19 might be a possible cause of thrombocytopenia in healthy adults.

Case Report

Parvovirus Induced Thrombocytopenia-Case Report

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Abstract

Thrombocytopenia is a common hematologic disorder. Major causes of thrombocytopenia are chronic liver diseases, immune thrombocytopenia, congenital platelet disorders, infections, bone marrow disorders, malignancy and drugs. Many of viral and bacterial infections may induce thrombocytopenia. A 30 year old previously healthy man with thrombocytopenia due to parvovirus B19 infection is discussed here. Viral infections should be kept in mind as a cause of thrombocytopenia which is a common laboratory finding.

Keywords: Immune Thrombocytopenic Purpura; Parvovirus B19; Thrombocytopenia
References


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