CONTRIBUTION OF THE INTESTINAL MICROBIOTA AND THE OXIDATION-REDUCTION SYSTEM IN STABILIZING PLATELET (PLT) COUNT IN IMMUNE THROMBOCYTOPENIC PURPURA (ITP)

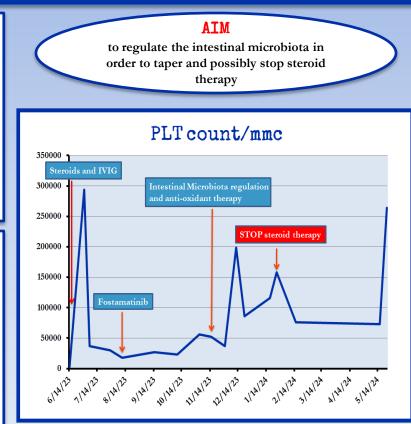
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INTRODUCTION

ITP is an autoimmune disorder characterized by a PLT count of <100x10⁹/L, resulting from antibody-mediated PLT destruction. Treatment for ITP usually involves steroids, intravenous immunoglobulins (IVIG), rituximab, splenectomy, thrombopoietin receptor agonists and fostamatinib, a spleen tyrosine kinase (SYK) inhibitor. The well-balanced cross-talk between microbiota and the intestinal immune system is under study for its contribution in regulating immune response in many autoimmune diseases.

METHODS

The patient was instructed to regulate his lifestyle to reduce oxydative stress, starting daily physical activity and following a healthy diet, combined with prebiotics and probiotics, glutathione, Nacetylcysteine, vitamin C, vitamin D and essential aminoacids supplements; a high dosage of daily melatonin was supplied to regulate hormonal biorhytms and to help reduce reactive oxygen species, enhancing enzymes' antioxidant capabilities of the body.



CLINICAL HISTORY

we present a case of a 30-years-old male with a relapse of ITP, firstly occurred in childhood when he was 3-years-old and treated at that time with steroids therapy stabilizing the count at $30-40 \times 10^9/L$; at relapse (PLT count $3 \times 10^9/L$), a **steroids+IVIG** treatment was restarted, with a short and unstable response. Then, it was continued **steroid** therapy with the addition of **fostamatinib**, resulting in a partial response (PLT count $30-50 \times 10^9/L$) after 4 months of combo treatment.

RESULTS & CONCLUSIONS

After two months the PLT count reached 150x10⁹/L and he could stop steroid therapy. The next goal, will be to reduce fostamatinib dosage until a possible interruption, by working on maintaining a good intestinal homeostasis and a favorable redox state

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