









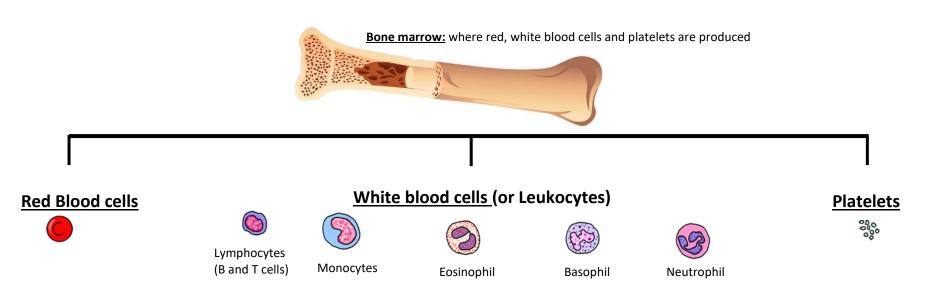






GLOSSARY Nº3: Immune Alterations

Different blood tests allow a qualitative (morphological) and/or quantitative (measure counts/levels) analysis of immune cells and proteins. This can help us determine the cause of **immune alterations/diseases**.





They can be measured/monitored with various **BLOOD TESTS** (e.g complete blood count, leukogram)

















Types of Immune Alterations	What is it?	What does it mean? What does it cause?
Basophilia	High levels of basophils (a type of white blood cell important in allergies)	It can be indicative of an allergy (usually associated with itching), infection, autoimmune diseases or cancer
Basopenia	Low levels of basophils (a type of white blood cell important in allergies)	It is often associated with allergies (e.g urticaria) and autoimmune diseases.
Dysgammaglobulinemia	Low levels of some immunoglobulins (antibodies). There are 5 different classes of antibodies: IgA, IgG, IgM, IgE, IgD and, in this case, one or more (but, NOT ALL) are decreased.	Increased susceptibility to develop infections with potential serious complications.
Hypogammaglobulinema	Low levels of ALL immunoglobulins (antibodies).	Increased susceptibility to develop infections with potential serious complications.
Eosinophilia	High levels of eosinophils (a type of white blood cell important in fighting different infections).	It could indicate a parasitic infection, allergy, autoimmune disease or cancer.
Eosinopenia	Low levels of eosinophils (a type of white blood cell important in fighting different infections).	It is often associated with acute inflammation and can be used to aid in the diagnosis of specific infections.
Leukocytosis	High levels of white blood cells (leukocytes).	It could indicate an inflammation, infection or cancer.
Leukopenia	Low levels of white blood cells (leukocytes).	Increased susceptibility to develop infections with potential serious complications.
Lymphocytosis	High levels of lymphocytes (B and/or T cells).	It could indicate infection, autoimmune disease or cancer.
Lymphopenia	Low levels of lymphocytes (B and/or T cells).	Increased susceptibility to develop infections with potential serious complications.
Monocytosis	High levels of monocytes (the largest type of white blood cells, which can transform into infection agents "eating cells").	It is often associated with chronic (persistent and long-lasting) infections and inflammatory diseases.
Monocytopenia	Low levels of monocytes (the largest type of white blood cells, which can transform into infection agents "eating cells").	It can be indicative with infections, stress or cancer.

















Types of Immune	What is it?	What does it mean?
Alterations		What does it cause?
Neutrophilia	High levels of neutrophils (the most abundant white blood cells).	The most common cause is a bacterial
		infection (an infection caused by a specific
		type of germs called bacteria).
Neutropenia	Low levels of neutrophils (the most abundant white blood cells).	Increased susceptibility to develop infections
		with potential serious complications.
Pancytopenia	Low levels of red blood cells, white blood cells (leukopenia), and platelets (thrombocytopenia).	Increased susceptibility to develop infections
		with potential serious complications, bleeding
		episodes and anemia.