

Special reactions

Leukomoid reaction

"WBCs count increase up to 25000 "

Causes:

Very severe infection stimulate BM to produce many WBCs, that lead to have immature granulocytes in blood (mimicking leukemia)

Differentiated from leukemia by: 1- Younger age patients 2- No BCR/ABL fusion gene 3- Subsides after treatment

Infectious mononucleosis

. "Acute, self limited , transient "

Cause:

EBV invade B cells increasing there proliferation so CD8+ cells also increase in number to respond against B-cells

Clinical features:

1- Fever, sore throat and lymphadenitis 2- Lymphocytosis of activated CD8+ (up to 18000)



Morphological changes: Atypical lymphocytes 1- Nucleus (oval, indented or folded) 2- Abundant cytoplasm

3- azurophilic granules

Reactive lymphadenitis



Reactive lymphadenitis

