Development of Leukaemia, Its Effect on the Body and Immunophenotyping Test

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Leukemia begins in the de eloping blood cells ithin the bone marro . All blood cells start out as hematopoietic (hemo = blood; poiesis = production) stem cells. e stem cells go through multiple stages of de elopment till the A attain their adult form.

First, blood stem cells de elop into both malloid cells and lamphoid cells. If blood cells had been to continue to de elop completel normalla, the adult forms of these cells are as follo s

Maloid cells turn into red blood cells, platelets, and certain tapes of hite blood cells (basophils, eosinophils and neutrophils).

Lamphoid cells de elop into certain tapes of hite blood cells (lamphocates and natural killer cells);

So in the bone marro , blood cells are starting to multipla and di ide into red blood cells, hite blood cells and platelets. Ho e er, hen sou ha e leukemia, one of these blood cell these begins to rapidla multipla, in an out-of-control manner. ese abnormal cells referred to as leukemia cells begin to take o er the space in the bone marro [1]. eacro d out the other normal cell these hich can be training to de elop: is is bad in a number of asse:

Unlike other blood cell the pes, the leukemia cells are abnormal and ser e no bene. cial purpose.

e di erent cell $t \ per$ (red blood cells, hite blood cells and platelets) ha e little or no space and aid to continue to gro and multipl in the bone marro [2].

ese consequences results in fe blood cells being made and release into the blood and greater leukemia cells being made and released into the blood. Without an adequate quantits of normal blood cells, sour bods sorgans and tissues ill no no longer get the o seen the need to ork proper sour bods on't be capable of ght o infection or clot blood hen needed.

Leukemia cells are usually immature (still de eloping) hite blood cells. In fact, the term leukemia comes from the Greek ords for hite (leukos) and blood (haima). An e cess number of hite blood cells are isible hen looking at blood through a microscope and the actual appearance of the blood is lighter to the naked exe [3].

Immunophenotyping (Flow Cytometry)

is test is used to diagnose leukemia and manner is a fine of e aluating most cancers cells to normal cells in either a bone marro or blood sample. Immunophenot ping is carried out ith

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