Determining your ANC (Absolute Neutrophil Count)

A Complete Blood Count (**CBC**) also known as a Full Blood Count (**FBC**) measures the levels of the three basic blood cells-white cells, red cells, and platelets. An **ANC** (Absolute Neutrophil Count) measures the percentage of neutrophils (shown in this listing as Polys) in your white blood count. multiply your white blood count (WBC) x total neutrophils (segmented neutrophils% + segmented bands%) x 10 = ANC. A normal ANC is over 1,000. An ANC of 500-1,000 is considered neutropenic and the Registry considers that an individual whose ANC is chronically less than 500 has Severe Chronic Neutropenia.

	Result column: shows counts that fall within Flag column (this marks items that are out of that are lower ("L") or higher ("H") than the	frange): shows count		nelp protect you from otal white cell count	abe an	fferent ranges, s may be nt, depending
Red Blood Cells: Carry oxygen from your lungs to the rest of your body.			/		processed.	
Hemoglobin (Hb or Hgb): the part of the red cell that carries the oxygen.	Test CBC WITH DIFFERENTIAL	Result	→ Flag	Units	Reference Interval ↓	To determine your ANC:
Hematocrit (HCT), is a measure of the amount of red blood cells in the blood.	White Blood Count Red Blood Count		<mark>2.0L</mark> 4.34L	<mark>x 10³/μL</mark> x 10 ⁶ /μL	<mark>4.8-10.8</mark> 4.70-6.10	1. Find the WBC, the polys and bands on your CBC.
Platelets : the cells that form blood clots that stop bleeding. The platelet count for this	Hemoglobin Hematocrit		13.2L 37.5L	g/dL %	14.0-18.0 42.0-52.0	WBC 2.0 Polys 14.8%
patient is normal Polys (also known as segs, segmented neutrophils, neutrophils, granulocytes) are the	Platelets Polys	→ 278	→ 14.8L	x 10 ³ /µL %	130-400 43.0-65.0	Bands 5% 2. Add the polys and bands.
most numerous of our white blood cells. These are the first line of defense against infection, killing invaders of the body.	Bands Lymphocytes	5	→ 55.5H	% %	20.5-45.5	(14.8 + 5 = 19.8) 3. Multiply the sum
Bands (also known as stabs, segs or segmented bands) are immature polys. They	Monocytes Eosinophils	1.7	22H	% %	5.5-11.7 0.9-2.9	of the polys and bands by the WBC. 19.8 x 2.0 = 39.6
also function to kill invaders of the body.	Basophils Atypical lymphs	1.0 0.0		% %	0.2-1.0 0.0-2.0	4. Divide the product by 100.
Lymphs or lymphocytes are white blood cetts which assist in building immunity and include B and T cells.	Polys (absolute) Bands (absolute)	0.1	0.3L	<mark>x 10³/μL</mark> x 10 ³ /μL	2.2-4.8	39.6 / 100 = 0.396
Monocyctes, eosinophils , and basophils destroy invading bacteria and viruses.	Lymphs (absolute) Monocytes (absolute)	0.4	1.1L	x 10 ³ /µL x 10 ³ /µL	1.3-2.9 0.3-0.8	This person has an ANC of 0.396
Differential : part of the CBC that shows counts for the five main kinds of white cells, either as percentages (the first 6	Eosinophils (absolute) Basophils (absolute)	0.0 0.0		x $10^{3}/\mu L$ x $10^{3}/\mu L$	0.0-0.2 0.0-0.1	
counts), or as the number of cells (the second 6 counts). This patient has a lower than normal poly count and a higher than	Atypical lymphs (absolute)	0.0	T 1. 1	x 10 ³ /µL	0.0-2.0 solute numbers the formula	•

normal lymph and monocyte count.

To calculate the ANC from absolute numbers the formula is: Absolute polys + Absolute bands = ANC (0.3 + 0.1) = 0.400