## 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.

	<b>Result</b> column: shows counts that fall within the normal range. <b>White blood cells:</b> help protect you from <b>Flag</b> column (this marks items that are out of range): shows counts infection. For this patient, the total white cell that are lower ("L") or higher ("H") than the normal range. <b>White blood cells:</b> help protect you from count is 2.0, which is low.				labs may use di cell your test results slightly differen	each measurement. Different labs may use different ranges, your test results may be slightly different, depending on where your results are	
<b>Red Blood Cells:</b> Carry oxygen from your lungs to the rest of your body.					processed.	results are	
	Test	• Result	Flag	Units	Reference Interval •	To determine your ANC:	
<b>Hemoglobin</b> (Hb or Hgb): the part of the red cell that carries the oxygen.	CBC WITH DIFFERENTIAL		2			1. Find the WBC,	
	White Blood Count		2.0L	x 10 <sup>3</sup> /µL	4.8-10.8	the polys and bands	
<b>Hematocrit</b> (HCT), is a measure of the amount of red blood cells in the blood.	Red Blood Count		4.34L	x 10 <sup>6</sup> /µL	4.70-6.10	on your CBC.	
	Hemoglobin		13.2L	g/dL	14.0-18.0	WBC 2.0	
<b>Platelets</b> : the cells that form blood clots that stop bleeding. The platelet count for this patient is normal.	Hematocrit		37.5L	%	42.0-52.0	Polys 14.8%	
	Platelets	278		x 10 <sup>3</sup> /µL	130-400	Bands 5% <b>2. Add the polys and</b>	
Polys (also known as segs, segmented neutrophils, neutrophils, granulocytes) are the most numerous of our white blood cells. These are the first line of defense against infection, killing invaders of the body.	Polys		14.8L	%	43.0-65.0	bands.	
	Bands	5	<b>→</b>	%		(14.8 + 5 = 19.8)	
	Lymphocytes		55.5H	%	20.5-45.5	3. Multiply the sum	
	Monocytes		→ 22H	%	5.5-11.7	of the polys and	
<b>Bands</b> (also known as stabs, segs or segmented bands) are immature polys. They also function to kill invaders of the body.	Eosinophils	1.7		%	0.9-2.9	<b>bands by the WBC.</b> 19.8 x 2.0 = 39.6	
	Basophils	1.0		%	0.2-1.0	4. Multiply the	
	Atypical lymphs	0.0		%	0.0-2.0	product by 10.	
<b>Lymphs</b> or lymphocytes are white blood cells which assist in building immunity and include B and T cells.	Polys (absolute)		0.3L	x $10^{3}/\mu L$	2.2-4.8	39.6 x 10 = 396	
	Bands (absolute)	0.1		x $10^{3}/\mu L$		This noncon hos on	
	Lymphs (absolute)		1.1L	x $10^{3}/\mu L$	1.3-2.9	This person has an ANC of 396	
Monocyctes, eosinophils, and basophils destroy invading bacteria and viruses.	Monocytes (absolute)	0.4		x $10^{3}/\mu L$	0.3-0.8		
	Eosinophils (absolute)	0.0		$x \ 10^{3}/\mu L$	0.0-0.2		
<b>Differential</b> : part of the CBC that shows counts for the five main kinds of white cells, either as percentages (the first 6	Basophils (absolute)	0.0		x $10^{3}/\mu L$	0.0-0.1		
	Atypical lymphs (absolute)	0.0		x 10 <sup>3</sup> /µL	0.0-2.0		
counts), or as the number of cells (the second 6 counts). This patient has a lower			To calculate the A	ANC from absolu	te numbers the formula is:		

To calculate the ANC from absolute numbers the formula is: Absolute polys + Absolute bands multiplied by 1000 = ANC $(0.3 + 0.1) \ge 1000 = 400$ 

than normal **poly** count and a higher than

normal lymph and monocyte count.