



**UNIVERSITY OF COLORADO
HOSPITAL**

ANSCHUTZ MEDICAL CAMPUS

**Test Update
CBC Revised Reference Range & New Tests**

Complete Blood Count (CBC)

Effective Tuesday, August, 18, 2009, the University of Colorado Hospital Clinical Laboratory will convert hematology testing to its new Sysmex analyzers. There are minor changes to some reference ranges reported in the CBC (refer to shaded areas of table). In addition, the CBC panel will report four new components.

Test	Age	Male		Female	
		Lower	Upper	Lower	Upper
Hematocrit	18-150y	39.2	50.2	35.7	46.7
Mean Corpuscular Hemoglobin	18-150y	26.6	32.5	26.6	32.5
Red Cell Distribution Width Coefficient of Variation	0-150y	11.7	14.2	11.7	14.2
Mean Platelet Volume	0-150y	9.6	12.8	9.6	12.8
Reticulocyte Absolute Count	0-150y	0.02	0.10	0.02	0.10
Red Cell Distribution Width Standard Deviation <i>(new component)</i>	0-150y	35.1	46.3	35.1	46.3
Immature Granulocyte Percent <i>(new component)</i>	0-150y	0	0.4	0	0.4
Immature Granulocyte Absolute <i>(new component)</i>	0-150y	0	0.03	0	0.03
Immature Reticulocyte Fraction <i>(new component)</i>	6d-150y	2.3	15.9	2.3	15.9

Red Cell Distribution Width Standard Deviation (RDWSD) is an actual measurement of the width of the red cell distribution curve and is not influenced by the MCV as is the RDWCV. It more accurately reflects the red cell size variance.

Immature Granulocyte Percentage and Absolute counts are measured components of the automated differential and represents Metamyelocytes, Myelocytes, and Promyelocytes.

Immature Reticulocyte Fraction measures the percentage of young or immature reticulocytes (those with a high RNA content) in the total reticulocyte population. This is an early indicator of erythroid recovery.

Please call Lorne Holland, MD., at 720-848-7050 if you have any questions or visit our website at <http://www.uch.edu/for-healthcare-professional/Clinical-Laboratory/index.aspx> for additional information.

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**Clinical Laboratory
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