

MrOS Visit 3 CBC data

C3

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The dataset C3 includes data from the Complete Blood Count (CBC) with platelet and differentials that was obtained for Visit 3 participants. A total of 3,636 participants have CBC data (3,635 clinic visits and 1 home visit).

The reason for a participant not having CBC data is located in the main V3 dataset by the variable V3CBCFLG. A total of 1,046 V3 participants have no CBC data.

- 772 were SAQ onlys
- 212 had no blood drawn
- 55 had blood drawn but the CBC test was not performed
- 7 had specimen that clotted, was hemolytic, or quantity was not sufficient, so no CBC test was performed

Local Quest Diagnostic Laboratories were used to perform the CBC test for the following clinic sites; Birmingham, Minneapolis, Pittsburgh, Portland and San Diego. Stanford Outreach was used for Palo Alto site. The measurements are standardized across labs.

There are 18 measures collected in the CBC data (Platelet count, red blood cell count, white blood cell count, hemoglobin density, mean corpuscular hemoglobin, mean corpuscular hemoglobin, mean corpuscular volume, hematocrit, red cell distribution width, and 9 different kinds of white blood cells). The values of those 9 types of white blood cells add up to the total number of white blood cells . Percentage of each kind of white blood cell is also included in the dataset. Absolute values of these 9 types of white blood cells are calculated based on the percentages and the total white blood cell count. If one of the measurements is not available for a participant, the missing value ".A" was assign to that measurement.

When reporting some of the values included in the CBC, some of the labs also reported comments. Examples of these comments include:

- "The results may be compromised due to the presence of fibrin"
- "Platelets were clumped in the lavender-top tube"
- "Review of the peripheral smear reveals decreased numbers of platelets",

A comment indicator (LACOMM) is included in the dataset. This variable indicates if there are any comments reported on the lab report. The comments apply to all measurements on that report. For all lab reports with comments, the LACOMM was assigned as 1:YES; lab reports where no comment was reported, the LACOMM variable was assigned 0:NO. There are a total of 123 out of 3636

records that included comments. Please contact the Coordinating Center to get the detail comments for each record.

The following reference ranges for the different measurements were included in the lab reports. Please note that the references of normal range for the measurements are slightly different from lab to lab. Please note that only the lab utilized by the Pittsburgh site provided a reference range for the measurements of total neutrophils, total lymphocytes, monocytes, eosinophils and basophils.

Measurements	Site	Reference Range
White blood cell count	Birmingham, Minneapolis, Pittsburgh, Portland, San Diego	3.8-10.8 thousand/uL
	Palo Alto	4.0-11.0 thousand/uL
Red blood cell count	Birmingham, Minneapolis, Pittsburgh, Portland, San Diego	4.2-5.8 million/uL
	Palo Alto	4.4-5.9 million/uL
	Portland	4.2-5.1 million/uL
Hemoglobin	Birmingham, Minneapolis, Pittsburgh, Portland, San Diego	13.2-17.1 g/dL
	Palo Alto	13.5-17.7 g/dL
	Portland	13.2-15.5 g/dL
Hematocrit	Birmingham, Minneapolis, Pittsburgh, Portland, San Diego	38.5-50.0 %
	Palo Alto	40.5-52.0 %
	Portland	38.5-45.0 %
MCV	Birmingham, Minneapolis, Pittsburgh, Portland, San Diego	80.0-100.0 fL
	Palo Alto	82.0-98.0 fL
MCH	Birmingham, Minneapolis, Pittsburgh, Portland, San Diego	27.0-33.0 pg
	Palo Alto	27.0-34.0 pg
MCHC	Birmingham, Minneapolis, Pittsburgh, Portland, San Diego	32.0-36.0 g/dL
	Palo Alto	32.0-36.0 g/dL
RDW	Birmingham, Minneapolis, Pittsburgh, Portland, San Diego	11.0-15.0 %

	Palo Alto	11.5-14.5 %
Platelet count	Birmingham, Minneapolis, Pittsburgh, Portland, San Diego	140-400 thousand/uL
	Palo Alto	150-400 thousand/uL
Absolute neutrophils	Birmingham, Minneapolis, Pittsburgh, Portland, San Diego	1500-7800 cells/uL
	Palo Alto	1700-6700 cells/uL
Absolute Lymphocytes	Birmingham, Minneapolis, Pittsburgh, Portland, San Diego	850-3900 cells/uL
	Palo Alto	1000-3000 cells/uL
Absolute Monocytes	Birmingham, Minneapolis, Pittsburgh, Portland, San Diego	200-950 cells/uL
	Palo Alto	300-950 cells/uL
Absolute Eosinophils	Birmingham, Minneapolis, Pittsburgh, Portland, San Diego	15-500 cells/uL
	Palo Alto	50-550 cells/uL
Absolute Basophils	Birmingham, Minneapolis, Pittsburgh, Portland, San Diego	0-200 cells/uL
	Palo Alto	0-250 cells/uL
Total Neutrophils, %	Birmingham, Minneapolis, Palo Alto, Portland, San Diego	N/A
	Pittsburgh	38-80 %
Total Lymphocytes, %	Birmingham, Minneapolis, Palo Alto, Portland, San Diego	N/A
	Pittsburgh	15-49 %
Monocytes, %	Birmingham, Minneapolis, Palo Alto, Portland, San Diego	N/A
	Pittsburgh	0-13 %
Eosinophils, %	Birmingham, Minneapolis, Palo Alto, Portland, San Diego	N/A
	Pittsburgh	0-8 %
Basophils, %	Birmingham, Minneapolis, Palo Alto, Portland, San Diego	N/A
	Pittsburgh	0-2 %

For more information, please see the contents and distribution file of this dataset.