Test Definition: CBC

CBC with Differential, Blood

Reporting Title: CBC with Differential, B
Performing Location: Rochester

Specimen Requirements:

Specimen must arrive within 24 hours of draw.

Container/Tube: Lavender top (EDTA)
Specimen Volume: 3 mL

Specimen Type	Temperature	Time
Whole Blood EDTA	Refrigerated (preferred)	24 hours
	Ambient	24 hours

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
HGB	Hemoglobin	Numeric	g/dL	718-7
HCT	Hematocrit	Numeric	%	4544-3
RBC	Erythrocytes	Numeric	x10(12)/L	789-8
MCV	MCV	Numeric	fL	787-2
RDW	RBC Distrib Width	Numeric	%	788-0
WBC	Leukocytes	Numeric	x10(9)/L	6690-2
NEUAA	Neutrophils	Numeric	x10(9)/L	751-8
LYMAA	Lymphocytes	Numeric	x10(9)/L	731-0
MONAA	Monocytes	Numeric	x10(9)/L	742-7
EOSAA	Eosinophils	Numeric	x10(9)/L	711-2
BASAA	Basophils	Numeric	x10(9)/L	704-7
PLTC	Platelet Count	Numeric	x10(9)/L	777-3

CPT Code: 1 × 85025

Reflex Tests:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
CE	Consultant Eval.			No	No
DIFFR	Morphology Eval (special Smear)	1	85007	No	No

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
DIFFR	SEGBA	Neutrophilic Segs and Bands	Numeric	%	769-0
DIFFR	LYMPH	Lymphocytes	Numeric	%	737-7
DIFFR	MONOC	Monocytes	Numeric	%	744-3
DIFFR	EOS	Eosinophils	Numeric	%	714-6
DIFFR	BASO	Basophils	Numeric	%	707-0
DIFFR	META	Metamyelocytes	Numeric	%	740-1
DIFFR	MYEL	Myelocytes	Numeric	%	749-2
DIFFR	PROMY	Promyelocytes	Numeric	%	783-1
DIFFR	UBLS	Blasts	Numeric	%	709-6
DIFFR	PLSM	Plasma Cells	Numeric	%	13047-6
DIFFR	M_KR	Megakarocytes	Numeric	/100 WBC	19252-6
DIFFR	NUCL	Nucleated RBC	Numeric	/100 WBC	19048-8
DIFFR	FRAGC	Fragile Cells	Alphanumeric		34992-8
DIFFR	BL_PR	Blasts and Promonocytes	Numeric	%	In Process
DIFFR	MO_PR	Monocytes and Promonocytes	Numeric	%	In Process
DIFFR	MANC	Manual Absolute Neutrophil Count	Numeric	x10(9)/L	753-4
DIFFR	INT01	Interpretation	Alphanumeric		59466-3
DIFFR	REV96	Reviewed by:	Alphanumeric		N/A
DIFFR	SEGBD	Neutrophilic Segs and Bands	Numeric	%	In Process

Reference Values:

RED BLOOD CELL COUNT (RBC)
Males
Birth: 3.90-5.50 x 10(12)/L
1-7 days: 3.90-6.00 x 10(12)/L
8-14 days: 3.60-6.00 x 10(12)/L
15 days-1 month: 3.00-5.50 x 10(12)/L
2-5 months: 3.10-4.50 x 10(12)/L
6-11 months: 3.70-6.00 x 10(12)/L
1-2 years: 3.70-6.00 x 10(12)/L
2 years: 4.10-5.10 x 10(12)/L
3-5 years: 4.10-5.30 x 10(12)/L
6-11 years: 4.20-5.10 x 10(12)/L
12-15 years: 4.40-5.50 x 10(12)/L
Adults: 4.32-5.72 x 10(12)/L
Females
Birth: 3.90-5.50 x 10(12)/L
1-7 days: 3.90-6.00 x 10(12)/L
8-14 days: 3.60-6.00 x 10(12)/L
15 days-1 month: 3.00-5.50 x 10(12)/L
2-5 months: 3.10-4.50 x 10(12)/L
6-11 months: 3.70-6.00x 10(12)/L
1-2 years: 3.70-6.00 x 10(12)/L
2 years: 4.10-5.10 x 10(12)/L
3-5 years: 4.10-5.20 x 10(12)/L
6-11 years: 4.10-5.30 x 10(12)/L
12-15 years: 4.10-5.20 x 10(12)/L
Adults: 3.90-5.03 x 10(12)/L

HEMOGLOBIN
Males
Birth -7 days: 13.5-22.0 g/dL
8-14 days: 12.5-21.0 g/dL
15 days-1 month: 10.0-20.0 g/dL
2-5 months: 10.0-14.0 g/dL
6 months-2 years: 10.5-13.5 g/dL
2 years: 11.0-14.0 g/dL
3-5 years:11.0-14.5 g/dL
6-11 years: 12.0-14.0 g/dL
12-15 years: 12.8-16.0 g/dL
Adults: 13.5-17.5 g/dL
Females
Birth-7 days: 13.5-22.0 g/dL
8-14 days: 12.5-21.0 g/dL
15 days-1 month: 10.0-20.0 g/dL
2-5 months: 10.0-14.0 g/dL
6 months-2 years: 10.5-13.5 g/dL
2 years: 11.0-14.0 g/dL
3-5 years: 11.8-14.7 g/dL

6-11 years: 12.0-14.5 g/dL
12-15 years: 12.2-14.8 g/dL
Adults: 12.0-15.5 g/dL

HEMATOCRIT
Males
Birth-7 days: 42.0-60.0%
8-14 days: 39.0-60.0%
15 days-1 month: 31.0-55.0%
2-5 months: 28.0-42.0%
6 months-1 year: 33.0-40.0%
2 years: 33.0-42.0%
3-5 years: 33.0-43.0%
6-11 years: 35.8-42.4%
12-15 years: 37.3-47.3%
Adults: 38.8-50.0%
Females
Birth-7 days: 42.0-60.0%
8-14 days: 39.0-60.0%
15 days-1 month: 31.0-55.0%
2-5 months: 28.0-42.0%
6 months-1 year: 33.0-40.0%
2 years: 33.0-42.0%
3-5 years: 35.0-44.0%
6-11 years: 35.7-43.0%
12-15 years: 36.3-43.4%
Adults: 34.9-44.5%

MEAN CORPUSCULAR VOLUME (MCV)
Males
Birth: 98.0-120.0 fL
1-7 days: 88.0-120.0 fL
8-14 days: 86.0-120.0 fL
15 days-1 month: 85.0-110.0 fL
2-5 months: 77.0-110.0 fL
6 months-5 years: 74.0-89.0 fL
6-11 years: 76.5-90.6 fL
12-15 years: 81.4-91.9 fL
Adults: 81.2-95.1 fL
Females
Birth: 98.0-120.0 fL
1-7 days: 88.0-120.0 fL
8-14 days: 86.0-120.0 fL
15 days-1 month: 85.0-110.0 fL
2-5 months: 77.0-110.0 fL
6 months-5 years: 74.0-89.0 fL
6-11 years: 78.5-90.4 fL
12-15 years: 79.9-92.3 fL
Adults: 81.6-98.3 fL

RED CELL DISTRIBUTION WIDTH (RDW)

Males
<2 years: not established
2 years: 12.0-14.5%
3-5 years: 12.0-14.0%
6-11 years: 12.0-14.0%
12-15 years: 11.6-13.8%
Adults: 11.8-15.6%
Females
<2 years: not established
2 years: 12.0-14.5%
3-5 years: 12.0-14.0%
6-11 years: 11.6-13.4%
12-15 years: 11.2-13.5%
Adults: 11.9-15.5%

WHITE BLOOD CELL COUNT (WBC)
Males
Birth: 9.0-30.0 x 10(9)/L
1-7 days: 9.4-34.0 x 10(9)/L
8-14 days: 5.0-21.0 x 10(9)/L
15 days-1 month: 5.0-20.0 x 10(9)/L
2-5 months: 5.0-15.0 x 10(9)/L
6 months-2 years: 6.0-11.0 x 10(9)/L
2 years: 5.0-12.0 x 10(9)/L
3-5 years: 4.0-12.0 x 10(9)/L
6-11 years: 3.4-9.5 x 10(9)/L
12-15 years: 3.6-9.1 x 10(9)/L
Adults: 3.5-10.5 x 10(9)/L
Females
Birth: 9.0-30.0 x 10(9)/L
1-7 days: 9.4-34.0 x 10(9)/L
8-14 days: 5.0-21.0 x 10(9)/L
15 days-1 month: 5.0-20.0 x 10(9)/L
2-5 months: 5.0-15.0 x 10(9)/L
6 months-2 years: 6.0-11.0 x 10(9)/L
2 years: 5.0-12.0 x 10(9)/L
3-5 years: 4.0-12.0 x 10(9)/L
6-11 years: 3.4-10.8 x 10(9)/L
12-15 years: 4.1-8.9 x 10(9)/L
Adults: 3.5-10.5 x 10(9)/L

NEUTROPHILS
Birth: 9.00-26.00 x 10(9)/L
1-7 days: 1.50-10.00 x 10(9)/L
8-14 days: 1.00-9.50 x 10(9)/L
15 days-1 month: 1.00-9.00 x 10(9)/L
2-5 months: 1.00-8.50 x 10(9)/L
6 months-5 years: 1.50-8.50 x 10(9)/L
6-11 years: 1.50-8.50 x 10(9)/L
12-15 years: 1.80-8.00 x 10(9)/L
Adults: 1.70-7.00 x 10(9)/L

LYMPHOCYTES
Birth: 2.00-11.00 x 10(9)/L
1-7 days: 2.00-11.00 x 10(9)/L
8-14 days: 2.00-17.00 x 10(9)/L
15 days-1 month: 2.50-16.50 x 10(9)/L
2-5 months: 4.00-13.50 x 10(9)/L
6 months-11 months: 4.00-10.50 x 10(9)/L
1-5 years: 1.50-7.00 x 10(9)/L
6-11 years: 1.50-6.50 x 10(9)/L
12-15 years: 1.20-5.20 x 10(9)/L
Adults: 0.90-2.90 x 10(9)/L

MONOCYTES
Birth-14 days: 0.40-1.80 x 10(9)/L
15 days-11 months: 0.05-1.10 x 10(9)/L
1-15 years: 0.00-0.80 x 10(9)/L
Adults: 0.30-0.90 x 10(9)/L

EOSINOPHILS
Birth-5 months: 0.02-0.85 x 10(9)/L
6 months-11 months: 0.05-0.70 x 10(9)/L
1-5 years: 0.0-0.65 x 10(9)/L
6-15 years: 0.00-0.50 x 10(9)/L
Adults: 0.05-0.50 x 10(9)/L

BASOPHILS
Birth-5 months: 0.00-0.60 x 10(9)/L
6 months-16 years: 0.00-0.20 x 10(9)/L
> or =17 years: 0.00-0.30 x 10(9)/L

PLATELETS
Birth-5 months: 150-350 x 10(9)/L
> or =6 months: 150-450 x 10(9)/L