

TABLE 14-5 -- AGE-SPECIFIC LEUKOCYTE DIFFERENTIAL

Age	Total Leukocytes ^{1*}		Neutrophils ^{1†}		Lymphocytes		Monocytes		Eosinophils	
	Mean (range)	%	Mean (range)	%	Mean (range)	%	Mean	%	Mean	%
Birth	18.1 (9-30)	61	11 (6-26)	61	5.5 (2-11)	31	1.1	6	0.4	2
12 hr	22.8 (13-38)	68	15.5 (6-28)	68	5.5 (2-11)	24	1.2	5	0.5	2
24 hr	18.9 (9.4-34)	61	11.5 (5-21)	61	5.8 (2-11.5)	31	1.1	6	0.5	2
1 wk	12.2 (5-21)	45	5.5 (1.5-10)	45	5.0 (2-17)	41	1.1	9	0.5	4
2 wk	11.4 (5-20)	40	4.5 (1-9.5)	40	5.5 (2-17)	48	1.0	9	0.4	3
1 mo	10.8 (5-19.5)	35	3.8 (1-8.5)	35	6.0 (2.5-16.5)	56	0.7	7	0.3	3
6 mo	11.9 (6-17.5)	32	3.8 (1-8.5)	32	7.3 (4-13.5)	61	0.6	5	0.3	3
1 yr	11.4 (6-17.5)	31	3.5 (1.5-8.5)	31	7.0 (4-10.5)	61	0.6	5	0.3	3
2 yr	10.6 (6-17)	33	3.5 (1.5-8.5)	33	6.3 (3-9.5)	59	0.5	5	0.3	3
4 yr	9.1 (5.5-15.5)	42	3.8 (1.5-8.5)	42	4.5 (2-8)	50	0.5	5	0.3	3
6 yr	8.5 (5-14.5)	51	4.3 (1.5-8)	51	3.5 (1.5-7)	42	0.4	5	0.2	3
8 yr	8.3 (4.5-13.5)	53	4.4 (1.5-8)	53	3.3 (1.5-6.8)	39	0.4	4	0.2	2
10 yr	8.1 (4.5-13.5)	54	4.4 (1.5-8.5)	54	3.1 (1.5-6.5)	38	0.4	4	0.2	2
16 yr	7.8 (4.5-13.0)	57	4.4 (1.8-8)	57	2.8 (1.2-5.2)	35	0.4	5	0.2	3
21 yr	7.4 (4.5-11.0)	59	4.4 (1.3-7.7)	59	2.5 (1-4.8)	34	0.3	4	0.2	3

Adapted from Cutro MS, Brancho F: *Blood and blood-forming tissues. In Randolph AM (ed): Pediatrics, 21st ed.* New York, McGraw-Hill, 2003.

* Numbers of leukocytes are $\times 10^3/\mu\text{L}$; ranges are estimates of 95% confidence limits; percents refer to differential counts.

† Neutrophils include band cells at all ages and a small number of metamyelocytes and myelocytes in the first few days of life.

TABLE 14-1 -- AGE-SPECIFIC BLOOD CELL INDICES

Age	Hb (g/dL) ^[1]	HCT (%) ^[2]	MCV (fL) ^[1]	MCHC (g/dL RBC) ^[1]	Reticulocytes	WBCs ($\times 10^3/\mu\text{L}$) ^[1]	Platelets ($10^3/\mu\text{L}$) ^[2]
26-30 wk gestation ^[1]	13.4 (11)	41.5 (34.9)	118.2 (106.7)	37.9 (30.6)	—	4.4 (2.7)	254 (180-327)
28 wk	14.5	45	120	31.0	(5-10)	—	275
32 wk	15.0	47	118	32.0	(3-10)	—	290
Term ^[1] (cord)	16.5 (13.5)	51 (42)	108 (98)	33.0 (30.0)	(3-7)	18.1 (9-30) ^[1]	290
1-3 day	18.5 (14.5)	56 (45)	108 (95)	33.0 (29.0)	(1.8-4.6)	18.9 (9.4-34)	192
2 wk	16.6 (13.4)	53 (41)	105 (88)	31.4 (28.1)	—	11.4 (5-20)	252
1 mo	13.9 (10.7)	44 (33)	101 (91)	31.8 (28.1)	(0.1-1.7)	10.8 (4-19.5)	—
2 mo	11.2 (9.4)	35 (28)	95 (84)	31.8 (28.3)	—	—	—
6 mo	12.6 (11.1)	36 (31)	76 (68)	35.0 (32.7)	(0.7-2.3)	11.9 (6-17.5)	—
6 mo-2 yr	12.0 (10.5)	36 (33)	78 (70)	33.0 (30.0)	—	10.6 (6-17)	(150-350)
2-6 yr	12.5 (11.5)	37 (34)	81 (75)	34.0 (31.0)	(0.5-1.0)	8.5 (5-15.5)	(150-350)
6-12 yr	13.5 (11.5)	40 (35)	86 (77)	34.0 (31.0)	(0.5-1.0)	8.1 (4.5-13.5)	(150-350)
12-18 yr							
Male	14.5 (13)	43 (36)	88 (78)	34.0 (31.0)	(0.5-1.0)	7.8 (4.5-13.5)	(150-350)
Female	14.0 (12)	41 (37)	90 (78)	34.0 (31.0)	(0.5-1.0)	7.8 (4.5-13.5)	(150-350)
Adult							
Male	15.5 (13.5)	47 (41)	90 (80)	34.0 (31.0)	(0.8-2.5)	7.4 (4.5-11)	(150-350)
Female	14.0 (12)	41 (36)	90 (80)	34.0 (31.0)	(0.8-4.1)	7.4 (4.5-11)	(150-350)

Data from Forestier F et al: Hematologic values of 163 normal fetuses between 18 and 30 weeks of gestation. *Pediatr Res* 1986;20:342; Oski FA, Naiman JL: Hematological Problems in the Newborn Infant. Philadelphia, WB Saunders, 1982; Nathan D, Oski FA: Hematology of Infancy and Childhood. Philadelphia: WB Saunders, 1998; Matoth Y et al: Postnatal changes in some red cell parameters. *Acta Paediatr Scand* 1971;60:317; and Winrobe MM: *Clinical Hematology*. Baltimore, Williams &