



HEMATOPATHOLOGY
DEPARTMENT OF PATHOLOGY AND LABORATORY MEDICINE
PEDIATRIC REFERENCE RANGES IN THROMBOSIS & HEMOSTASIS

Reference ranges from 15 days to 17 years are based on published data by Toulon P, *et al.* Age dependency for coagulation parameters in pediatric populations: results of a multicenter study aimed at defining the age-specific reference ranges. *Thromb Hem.* 2016 Mar 17;116(1).

Assay	0-14 Days*	15 D - 4 wks	1 - 5 mos	6 - 11 mos	1 - 5 yrs	6 - 10 yrs	11 - 17 yrs	18 yrs and older
PT**†	9.3 - 13.5 sec	9.5 - 12.6 sec	9.7 - 12.8 sec	9.8 - 13.0 sec	9.9 - 13.4 sec	10.0 - 14.6 sec	10.0 - 14.1 sec	9.3 - 13.5 sec
aPTT	23.4 - 38.0 sec	27.6 - 45.6 sec	24.8 - 40.7 sec	25.1 - 40.7 sec	24.0 - 39.2 sec	26.9 - 38.7 sec	24.6 - 38.4 sec	23.4 - 38.0 sec
Fibrinogen	170 - 399 mg/dL	136 - 300 mg/dL	141 - 437 mg/dL	148 - 367 mg/dL	164 - 497 mg/dL	171 - 537 mg/dL	168 - 529 mg/dL	170 - 399 mg/dL
Factor VIII	61 - 155%	65 - 153%	50 - 187%	53 - 132%	59 - 167%	61 - 154%	43 - 155%	61 - 155%
Factor IX	83 - 155%	30 - 77%	29 - 105%	51 - 107%	53 - 129%	55 - 156%	60 - 138%	83 - 155%
Factor XI	77 - 162%	33 - 75%	28 - 126%	61 - 126%	58 - 154%	32 - 154%	55 - 139%	77 - 162%
Factor XII	61 - 165%	25 - 81%	38 - 137%	48 - 156%	50 - 175%	49 - 154%	49 - 154%	61 - 165%
Factor II**	79 - 138%	45 - 74%	47 - 111%	74 - 117%	49 - 130%	68 - 132%	48 - 119%	79 - 138%
Factor V**	63 - 123%	69 - 124%	60 - 147%	59 - 160%	73 - 188%	82 - 141%	62 - 125%	63 - 123%
Factor VII**	74 - 147%	55 - 108%	43 - 141%	55 - 128%	48 - 124%	55 - 135%	55 - 133%	74 - 147%
Factor X**	77 - 151%	66 - 92%	68 - 122%	76 - 134%	60 - 153%	71 - 162%	64 - 131%	77 - 151%
vWF Antigen	44 - 167%	46 - 220%	36 - 217%	48 - 199%	41 - 186%	45 - 141%	56 - 123%	44 - 167%
vWF Activity	43 - 195%	74 - 189%	41 - 191%	43 - 176%	44 - 156%	41 - 129%	54 - 137%	43 - 195%
ATIII Activity	86 - 118%	33 - 63%	29 - 120%	63 - 122%	61 - 128%	64 - 136%	69 - 136%	86 - 118%
PC Activity	74 - 145%	27 - 48%	23 - 95%	47 - 151%	59 - 148%	46 - 154%	72 - 155%	74 - 145%
PS Free Ag	59 - 118%	61 - 108%	48 - 127%	63 - 139%	53 - 135%	62 - 142%	61 - 131%	59 - 118%

*Effect on the pediatric population in this age range is uncertain.

** Reference ranges are established using an adult population. Effect on the pediatric population reference range **ages 0-14 days** is uncertain. All other age-specific pediatric ranges may not be accurate due to reagent differences.

†INR reference ranges are reagent lot specific. The INR is calculated using the geometric mean from a reference population of adults. (See Cerner for current ranges.) Effect on the pediatric population reference range is uncertain.