

Table 6 - Reference intervals for harmonised chemical pathology*

* AACB Committee for Common Reference Intervals and AACB Paediatric Biochemistry Special Interest Group

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Analyte	Age	Reference
Sodium (LN-RCPA: 2951-2)	0d to <1w	(132–147) mmol/L
	1w to <18y	(133–144) mmol/L
	18y to <120y	(135–145) mmol/L
Potassium (LN-RCPA: 2823-3) See note 1	0d to <1w	(3.8–6.5) mmol/L
	1w to <26w	(4.2–6.7) mmol/L
	26w to <2y	(3.9–5.6) mmol/L
	2y to <18y	(3.6–5.3) mmol/L
	18y to <120y	(3.5–5.2) mmol/L
Chloride (LN-RCPA: 2075-0)	0d to <1w	(98–115) mmol/L
	1w to <18y	(97–110) mmol/L
	18y to <120y	(95–110) mmol/L
Bicarbonate (LN-RCPA: 1963-8)	0d to <1w	(15–28) mmol/L
	1w to <2y	(16–29) mmol/L
	2y to <10y	(17–30) mmol/L
	10y to <18y	(20–32) mmol/L
	18y to <120y	(22–32) mmol/L
Creatinine (LN-RCPA: 14682-9) See note 2 and 3	0d to <1w	(22–93) umol/L
	1w to <4w	(17–50) umol/L
	4w to <2y	(11–36) umol/L
	2y to <6y	(20–44) umol/L
	6y to <12y	(27–58) umol/L
	Male	
	12y to <15y	(35–83) umol/L
	15y to <19y	(50–100) umol/L
	19y to <60y	(60–110) umol/L
	Female	
	12y to <15y	(35–74) umol/L
	15y to <19y	(38–82) umol/L
	19y to <60y	(45–90) umol/L
Calcium (LN-RCPA: 2000-8)	0d to <1w	(1.85–2.80) mmol/L
	1w to <26w	(2.20–2.80) mmol/L
	26w to <2y	(2.20–2.70) mmol/L
	2y to <18y	(2.20–2.65) mmol/L
	18y to <120y	(2.10–2.60) mmol/L
Calcium corrected for albumin (LN-RCPA: 29265-6)	18y to <120y	(2.10–2.60) mmol/L
Phosphate (LN-RCPA: 14879-1)	0d to <1w	(1.25–2.85) mmol/L
	1w to <4w	(1.50–2.75) mmol/L
	4w to <26w	(1.45–2.50) mmol/L
	26w to <1y	(1.30–2.30) mmol/L
	1y to <4y	(1.10–2.20) mmol/L
	4y to <15y	(0.90–2.00) mmol/L
	15y to <18y	(0.80–1.85) mmol/L
	18y to <20y	(0.75–1.65) mmol/L
	20y to <120y	(0.75–1.50) mmol/L

Magnesium (LN-RCPA: 2601-3)	0d to <1w	(0.60–1.00) mmol/L
	1w to <18y	(0.65–1.10) mmol/L
	18y to <120y	(0.70–1.10) mmol/L
Lactate dehydrogenase (LN-RCPA: 14804-9) See note 4	18y to <120y	(120–250) U/L
Alkaline phosphatase (LN-RCPA: 6768-6)	0d to <1w	(80–380) U/L
	1w to <4w	(120–550) U/L
	4w to <26w	(120–650) U/L
	26w to <2y	(120–450) U/L
	2y to <6y	(120–370) U/L
	6y to <10y	(120–440) U/L
	Male	
	10y to <14y	(130–530) U/L
	14y to <15y	(105–480) U/L
	15y to <17y	(80 - 380) U/L
	17y to <19y	(50–220) U/L
	19y to <22y	(45–150) U/L
	22y to <120y	(30–110) U/L
	Female	
	10y to <13y	(100–460) U/L
	13y to <14y	(70–330) U/L
	14y to <15y	(50–280) U/L
	15y to <16y	(45–170) U/L
	16y to <22y	(35–140) U/L
22y to <120y	(30–110) U/L	
Total Protein (LN-RCPA: 2885-2)	18y to <120y	(60–80) g/L

Unless otherwise specified, the intervals are for serum or plasma for adults (18 years of age and older). The intervals are for use by laboratories using methods which are traceable to JCTLM-listed reference materials, methods and services (except bicarbonate where no references are listed).

LN-RCPA is the LOINC code from the RCPA dataset to be used for each analyte.

Note:

1. For reference intervals between 0w to <18y, the potassium reference intervals listed in the table are for serum specimens only. Below are the potassium reference intervals for when a plasma specimen is collected.

Potassium (Plasma)	0d to <1w	(3.5–6.2) mmol/L
	1w to <26w	(3.8–6.4) mmol/L
	26w to <2y	(3.5–5.4) mmol/L
	2y to <18y	(3.3–4.9) mmol/L

For reference intervals from 18y to <120y, the potassium reference intervals listed are for use for both serum and plasma. Laboratories testing only heparin plasma may choose to use a lower interval.

2. Creatinine RIs are by Vitros enzymatic assay

3. Creatinine has harmonised reference intervals for adults up to the age of 60 years. For older ages laboratories may elect to maintain these.

4. Lactate dehydrogenase [L to P] (IFCC), lactate to pyruvate method (IFCC method).