

Dear Pathology Referrer,

RE: Revised Reference Intervals and Units for CSF Neurotransmitters

From 3rd April 2023, revised reference intervals for the CSF Neurotransmitters will be provided. In addition, CSF HVA and CSF 5-HIAA will be reported in nmol/L (previously umol/L), that is, the numerical result values will become higher by a factor of 1000.

The revised reference intervals are provided on the next page.

There are no changes to sample collection or handling requirements.

For enquiries, please contact Dr Sushil Bandodkar on (02) 9845 3289,
Sushil.Bandodkar@health.nsw.gov.au

Yours sincerely

Dr Sushil Bandodkar
Department Head, Biochemistry
The Children's Hospital at Westmead

Dr Jason Chung
Dr Nimalie Perera
Chemical Pathologists

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CSF Neurotransmitters: Revised reference intervals

Analyte	Units	Age	Reference Interval
5-HIAA (CSF)	nmol/L	0 – 1 month	200 – 1130
		1 – 2 months	200 – 820
		2 – 4 months	200 – 660
		4 – 8 months	170 – 530
		8 months – 1 year	150 – 440
		1 – 1.5 years	130 – 390
		1.5 – 2 years	120 – 350
		2 – 3 years	110 – 320
		3 – 5 years	90 – 290
		5 – 10 years	70 – 260
		10 – 16 years	50 – 230
		16+ years	50 – 210
HVA (CSF)	nmol/L	0 – 1 month	400 – 1360
		1 – 2 months	400 – 1100
		2 – 4 months	400 – 1000
		4 – 8 months	400 – 900
		8 months – 1 year	400 – 800
		1 – 2 years	380 – 800
		2 – 3 years	360 – 780
		3 – 5 years	340 – 740
		5 – 10 years	270 – 680
		10 – 16 years	160 – 560
		16+ years	90 – 460
HVA:5-HIAA Ratio (CSF)		0 – 1 month	0.7 – 2.2
		1 – 2 months	0.9 – 2.2
		2 – 4 months	1.0 – 2.4
		4 – 8 months	1.2 – 2.7
		8 months – 1 year	1.5 – 3.0
		1 – 2 years	1.6 – 3.4
		2 – 3 years	1.6 – 3.7
		3 – 10 years	1.6 – 4.0
		10 – 16 years	1.5 – 4.0
		16+	1.4 – 4.0
3-O-MD (CSF)	nmol/L	0 – 6 months	0 – 300
		6 months – 2 years	0 – 100
		2+ years	0 – 50
5-MTHF (CSF)	nmol/L	0 – 4 months	60 – 300
		4 – 8 months	40 – 260
		8 months – 1 year	40 – 230
		1 – 2 years	40 – 200
		2 – 3 years	40 – 180
		3 – 5 years	30 – 160
		5+ years	30 – 140
5-HTP (CSF)	nmol/L	0 – 1 year	0 – 20
		1 – 10 years	0 – 15
		10+ years	0 – 10
Neopterin (CSF)	nmol/L	0 – 1 year	0 – 60
		1 – 2 years	0 – 40
		2+ years	0 – 30
Biopterin (CSF)	nmol/L	0 – 2 months	25 – 75
		2 – 4 months	25 – 65
		4 – 8 months	25 – 60
		8 months – 2 years	23 – 50
		2 – 3 years	20 – 50
		3 – 10 years	20 – 45
		10+ years	15 – 40