

Plasma 25-hydroxyvitamin D (nmol/L)

Mean and selected percentiles of plasma concentrations, by DRI age groups and sex, Canada household population, Canadian Health Measures Survey 2007 to 2009

Sex	Age Group	n	Mean (95% conf. interval)	Selected percentiles (95% confidence intervals)						
				5 th	10 th	25 th	50 th	75 th	90 th	95 th
Males	9-13	408	73.4 (69.7,77.2)	36.5 (31.1,41.9)	43.4 (36.7,50.0)	56.7 (51.5,61.9)	72.1 (68.4,75.8)	88.9 (81.3,96.4)	105.7 (99.5,111.9)	113.4 (107.8,119.0)
	14-18	284	65.2 (57.2,73.1)	27.6 (20.3,35.0)	30.8 (22.3,39.2)	43.1 (32.4,53.9)	63.0 (54.8,71.2)	83.0 (74.6,91.4)	98.6 (86.9,110.2)	110.8 (98.5,123.1)
	19-30	296	62.5 (53.3,71.7)	24.3 (17.7,31.0)	32.1 (23.0,41.3)	43.2 (36.1,50.2)	58.7 (50.7,66.6)	72.9 (59.0,86.8)	90.4 (71.1,109.7)	114.0 (74.9,153.1)
	31-50	656	61.6 (57.0,66.2)	25.9 (24.0,27.7)	31.2 (26.8,35.5)	45.1 (40.9,49.4)	59.5 (52.8,66.3)	76.2 (68.8,83.6)	91.8 (83.8,99.8)	100.0 (89.9,110.2)
	51-70	550	69.2 (65.4,73.1)	29.5 (25.2,33.9)	36.4 (29.5,43.4)	50.1 (46.6,53.6)	67.4 (62.4,72.4)	85.3 (79.1,91.4)	101.4 (93.8,109.0)	113.8 (104.8,122.9)
	71-79	173	73.7 (67.1,80.3)	40.8 (36.9,44.7)	46.8 (42.4,51.2)	58.2 (51.6,64.9)	71.2 (60.6,81.9)	88.9 (78.5,99.4)	99.2 (90.9,107.5)	105.3 (91.9,118.6)
	19-79	1675	64.7 (61.0,68.3)	26.6 (23.2,30.0)	33.8 (29.6,38.0)	46.9 (43.5,50.3)	62.3 (57.9,66.8)	80.0 (75.4,84.7)	95.4 (90.0,100.7)	108.2 (98.8,117.6)
Females	9-13	385	69.5 (63.6,75.5)	35.9^E (22.0,49.8)	42.6 (34.0,51.2)	55.4 (49.0,61.8)	68.4 (63.1,73.7)	83.4 (77.4,89.3)	99.4 (89.5,109.3)	107.4 (99.6,115.3)
	14-18	285	68.6 (63.0,74.2)	27.0 (18.5,35.4)	35.6 (24.6,46.5)	50.1 (42.6,57.7)	64.3 (57.4,71.1)	86.4 (74.9,97.9)	103.7 (87.9,119.5)	118.2 (99.7,136.8)
	19-30	336	72.5 (67.2,77.9)	31.7 (27.3,36.0)	36.9 (32.9,41.0)	49.7 (43.9,55.5)	68.3 (61.9,74.8)	88.3 (80.2,96.3)	106.5 (89.0,123.9)	130.0 (111.5,148.5)
	31-50	789	67.1 (63.7,70.4)	31.9 (26.9,37.0)	38.6 (33.7,43.6)	49.4 (44.9,53.9)	66.0 (62.0,70.1)	80.4 (76.1,84.6)	94.3 (86.0,102.7)	111.4 (101.3,121.5)
	51-70	580	68.9 (66.3,71.5)	31.8 (25.6,37.9)	40.8 (36.0,45.6)	51.7 (47.6,55.8)	68.4 (63.7,73.1)	84.2 (80.4,88.1)	99.3 (93.3,105.2)	107.1 (100.8,113.4)
	71-79	182	77.8 (72.6,83.0)	34.8 (28.3,41.3)	44.9 (36.6,53.3)	61.7 (56.1,67.3)	74.7 (64.3,85.1)	94.2 (85.1,103.4)	111.2 (102.4,120.0)	116.4 (109.1,123.8)
	19-79	1887	69.5 (67.4,71.6)	32.0 (28.9,35.2)	39.4 (36.0,42.8)	50.9 (47.8,53.9)	67.4 (65.0,69.8)	83.9 (82.6,85.2)	101.9 (98.3,105.5)	113.4 (107.2,119.5)

Data source: Canadian Health Measures Survey, Cycle 1

E Data with a coefficient of variation (CV) from 16.6% to 33.3%; use with caution

Notes

Total household population aged 9 to 79, except those meeting the exclusion criteria. For more information regarding the exclusion criteria, please refer to the [Canadian Health Measures Survey \(CHMS\) Data User Guide: Cycle 1](#).

Bootstrap weights included with the dataset were used to estimate the 95% confidence intervals for all means and percentiles assuming a student's t-distribution with 11 degrees of freedom.

Plasma 25(OH)D levels were measured by a chemiluminescence immunoassay using the LIAISON 25-Hydroxyvitamin D TOTAL assay (Diasorin, Ltd.). Measurements that fell below the limit of detection (LOD) were assigned a value equal to half the LOD. The limit of detection is 10 nmol/L.