

I

Proportion of the Population Above and Below 40 nmol/L Serum 25-Hydroxyvitamin D Concentrations and Cumulative Distribution of Serum 25-Hydroxyvitamin D Concentrations: United States and Canada

The data in this appendix are provided for the readers of this report and were not reviewed by the committee.

For the United States (Table I-1 and Figures I-1 through I-8), the tables and figures for serum 25-hydroxyvitamin D (25OHD) concentrations are from analyses conducted in August 2010 by the National Center for Health Statistics, U.S. Centers for Disease Control and Prevention and based on the National Health and Nutrition Examination Survey (NHANES) 2003–2006.

For Canada (Table I-2 and Figures I-9 through I-14), the tables and figures for serum 25OHD concentrations are from analyses conducted in August 2010 by Statistics Canada and based on the Canadian Health Measures Survey (CHMS), Cycle 1, 2007–2009.

**PERSONS ABOVE AND BELOW 40 NMOL/L SERUM
25-HYDROXYVITAMIN D CONCENTRATIONS
FROM NATIONAL SURVEYS**

TABLE I-1 United States: Prevalence of Serum 25OHD Concentrations (QC adjusted) Above and Below 40 nmol/L by Total Population and by Race/Ethnicity (ages 1 year and older) from NHANES 2003–2006

	Estimate (95% Confidence Interval)				
	Total	Non-Hispanic White	Non-Hispanic Black	Mexican American	Others
Percent < 40 nmol/L	18.8 (16.3–21.5)	10.6 (8.9–12.4)	53.6 (48.9–58.2)	27.2 (22.8–32.0)	27.2 (23.2–31.7)
Percent ≥ 40 nmol/L	81.2 (78.5–83.7)	89.5 (87.6–91.1)	46.4 (41.8–51.1)	72.9 (68.0–77.2)	72.8 (68.3–76.8)

SOURCE: NHANES 2003–2006.

TABLE I-2 Canada: Prevalence of Serum 25OHD Concentrations Above and Below 40 nmol/L in Canada by Total Population (ages 9 years and older) from CHMS, Cycle 1, 2007–2009

	Estimate (95% Confidence Interval)
Percent < 40 nmol/L	13.0 (9.9, 16.1)
Percent ≥ 40 nmol/L	87.0 (83.9, 90.1)

SOURCE: CHMS, Cycle 1, 2007–2009.

UNITED STATES: CUMULATIVE DISTRIBUTION OF SERUM 25OHD CONCENTRATIONS BY AGE GROUP

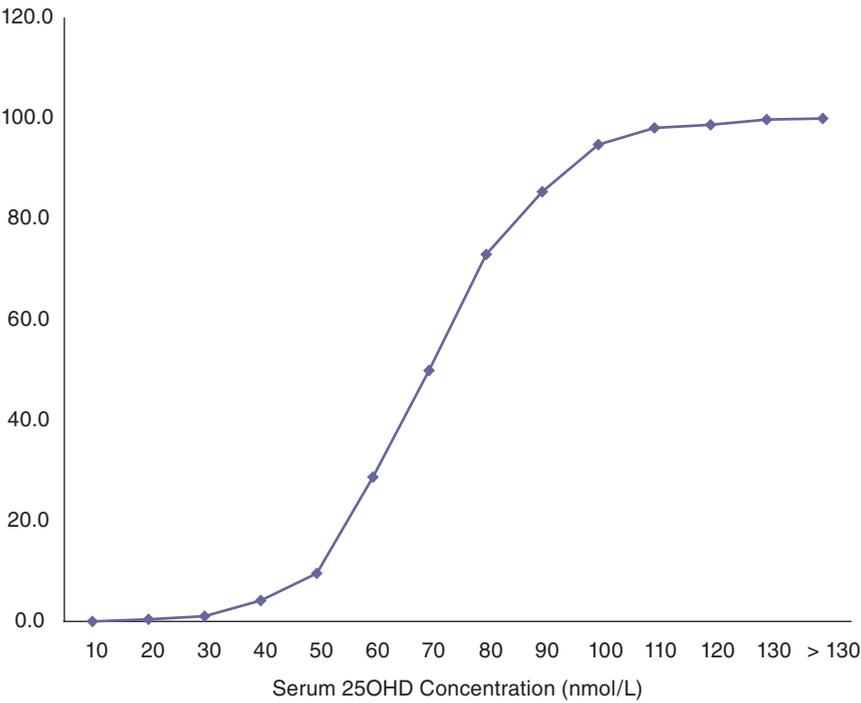


FIGURE I-1 Cumulative distribution of serum 25OHD (QC adjusted) for 1- to 3-year-olds in the United States for the 2003 to 2006 time period.
SOURCE: NHANES 2003–2006.

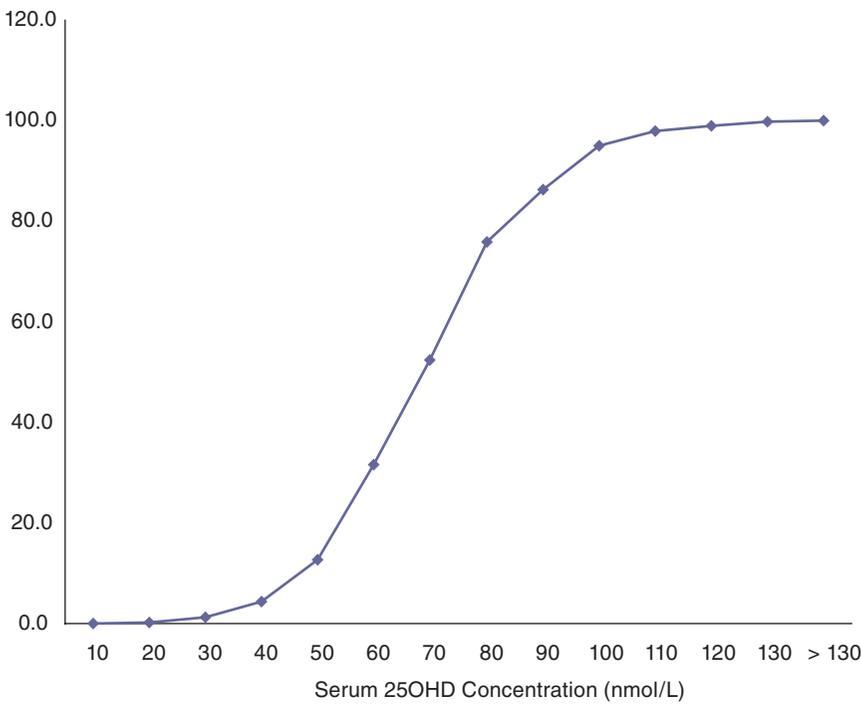


FIGURE I-2 Cumulative distribution of serum 25OHD (QC adjusted) for 4- to 8-year-olds in the United States for the 2003 to 2006 time period. SOURCE: NHANES 2003–2006.

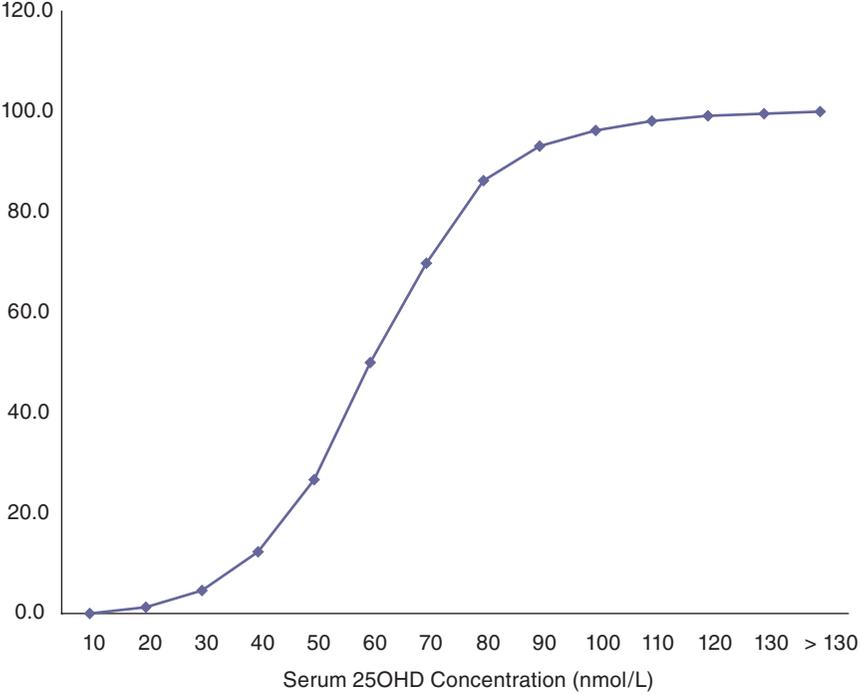


FIGURE I-3 Cumulative distribution of serum 25OHD (QC adjusted) for 9- to 13-year-olds in the United States for the 2003 and 2006 time period. SOURCE: NHANES 2003–2006.

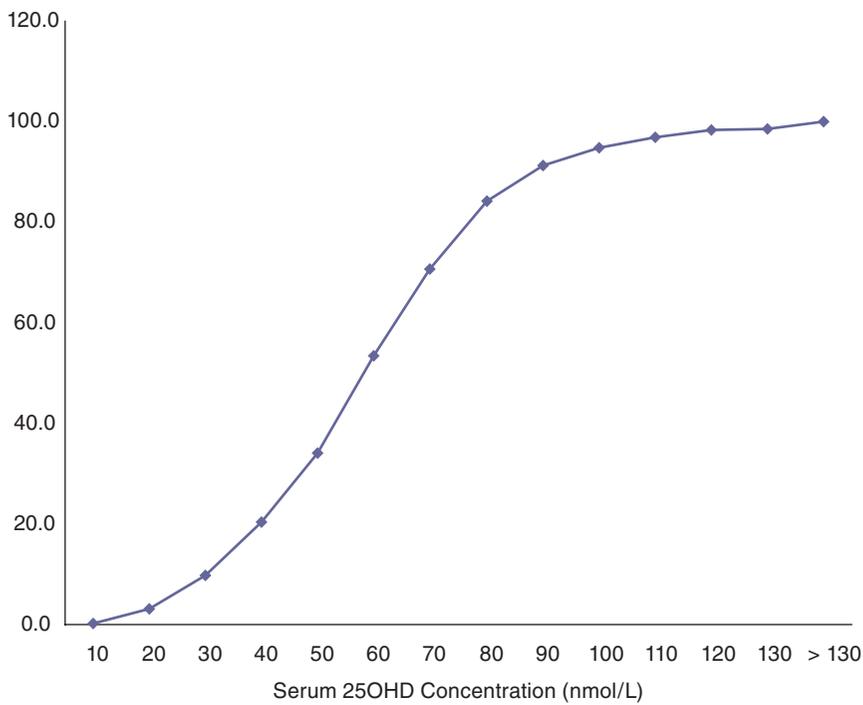


FIGURE I-4 Cumulative distribution of serum 25OHD (QC adjusted) for 14- to 18-year-olds in the United States for the 2003 to 2006 time period.
SOURCE: NHANES 2003–2006.

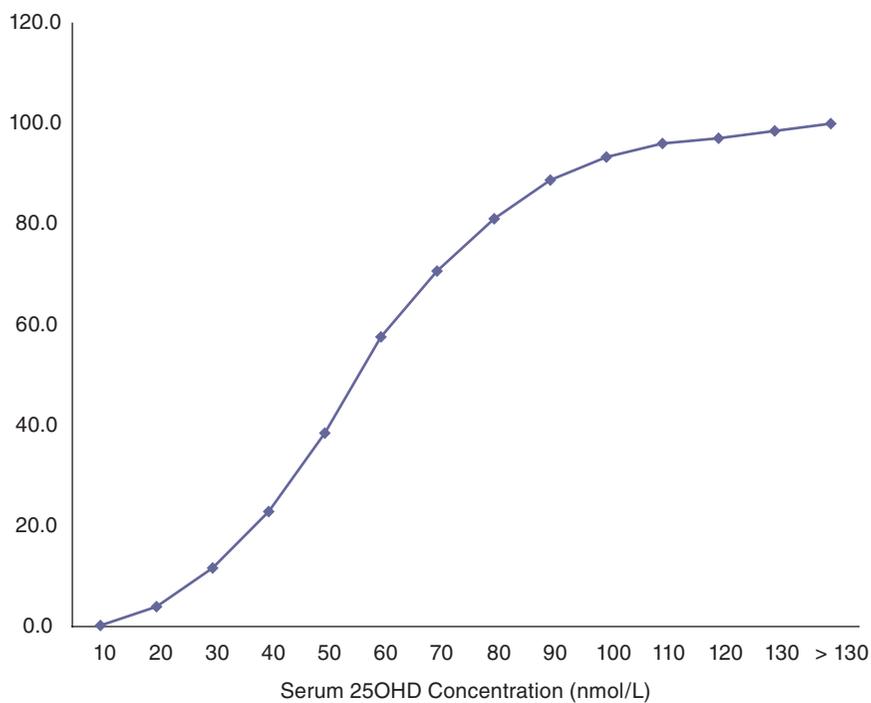


FIGURE I-5 Cumulative distribution of serum 25OHD (QC adjusted) for 19- to 30-year-olds in the United States for the 2003 to 2006 time period.
SOURCE: NHANES 2003–2006.

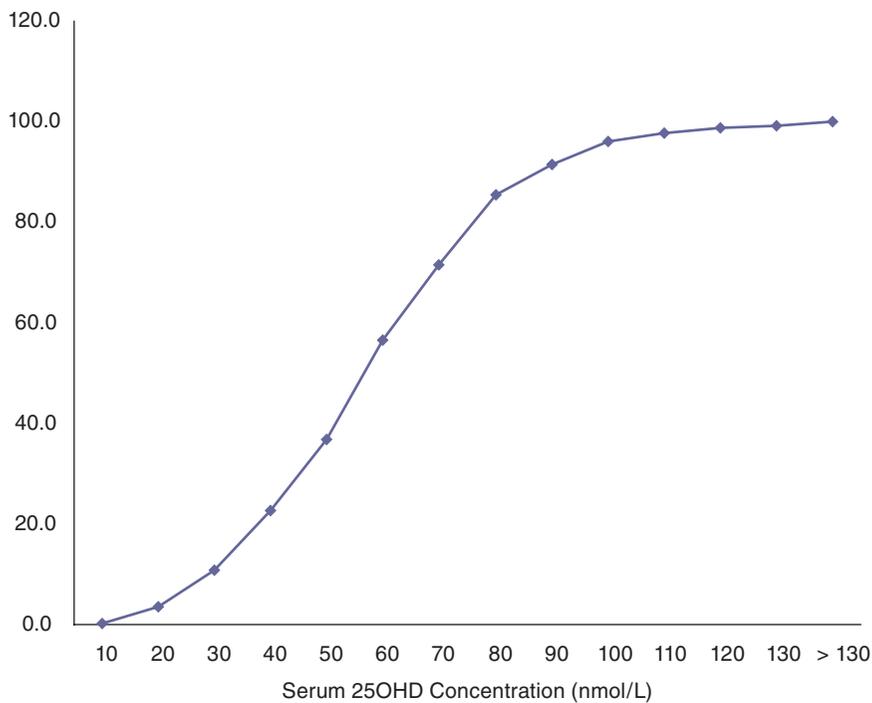


FIGURE I-6 Cumulative distribution of serum 25OHD (QC adjusted) for 31- to 50-year-olds in the United States for the 2003 to 2006 time period.
SOURCE: NHANES 2003–2006.

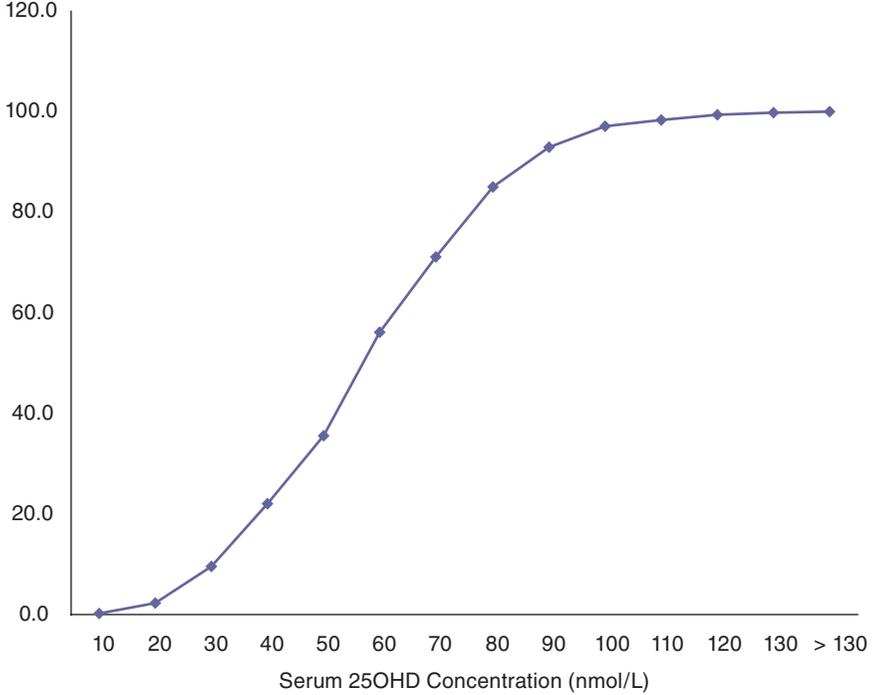


FIGURE I-7 Cumulative distribution of serum 25OHD (QC adjusted) for 51- to 70-year-olds in the United States for the 2003 to 2006 time period.
SOURCE: NHANES 2003–2006.

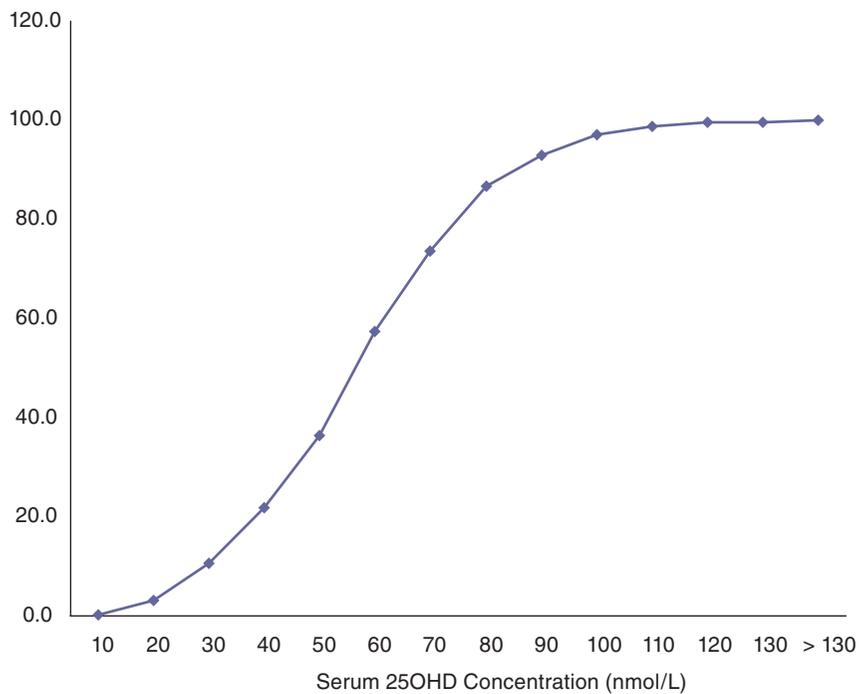


FIGURE I-8 Cumulative distribution of serum 25OHD (QC Aadjusted) for >70-year-olds in the United States for the 2003 to 2006 time period.
SOURCE: NHANES 2003–2006.

CANADA: CUMULATIVE DISTRIBUTION OF SERUM 25OHD CONCENTRATIONS BY AGE GROUP

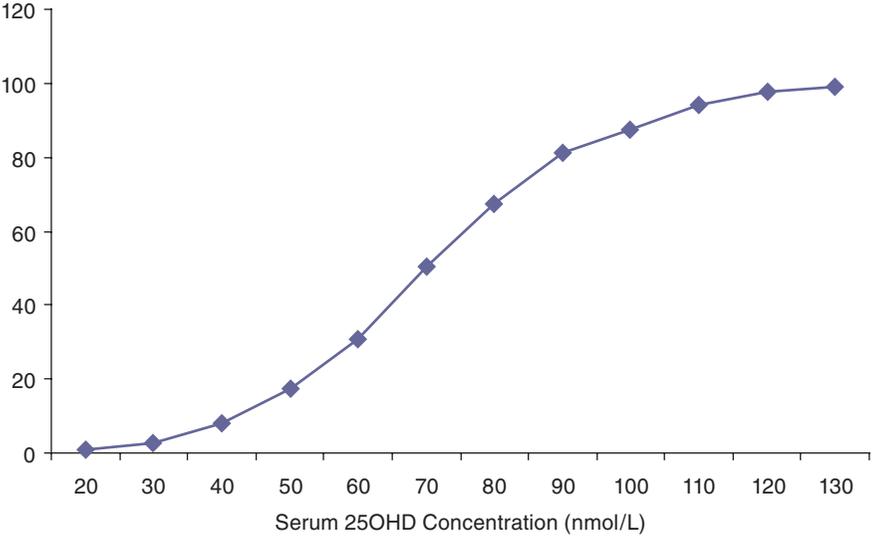


FIGURE I-9 Cumulative distribution of serum 25OHD for 9- to 13-year-olds in Canada for the 2007 to 2009 time period.
SOURCE: CHMS, Cycle 1, 2007–2009.

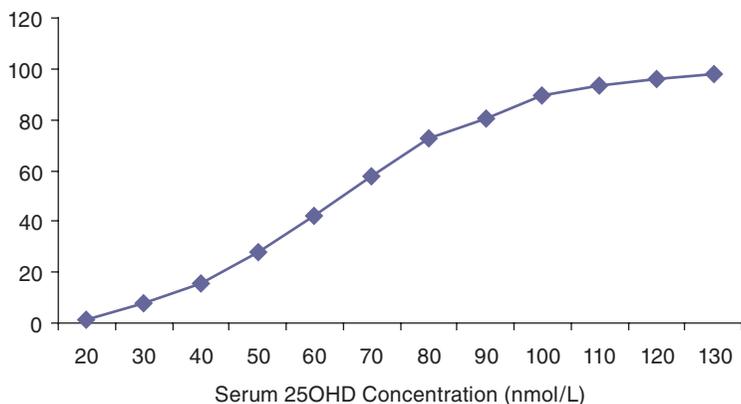


FIGURE I-10 Cumulative distribution of serum 25OHD for 14- to 18-year-olds in Canada for the 2007 to 2009 time period.

SOURCE: CHMS, Cycle 1, 2007–2009.

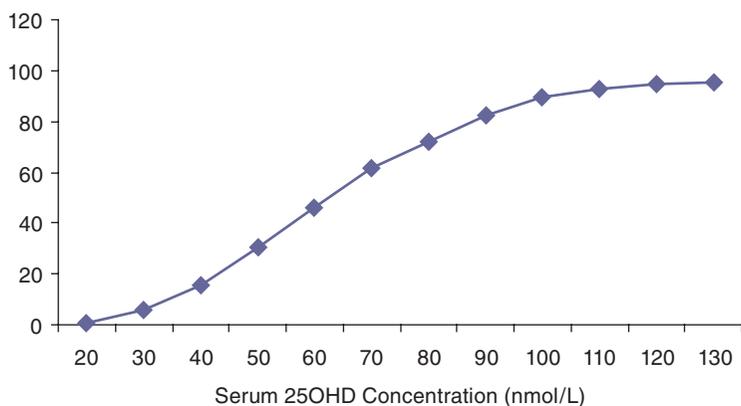


FIGURE I-11 Cumulative distribution of serum 25OHD for 19- to 30-year-olds in Canada for the 2007 to 2009 time period.

SOURCE: CHMS, Cycle 1, 2007–2009.

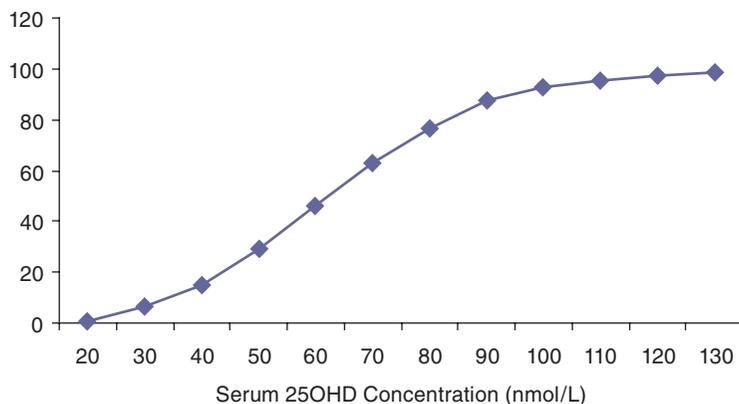


FIGURE I-12 Cumulative distribution of serum 25OHD for 31- to 50-year-olds in Canada for the 2007 to 2009 time period.

SOURCE: CHMS, Cycle 1, 2007–2009.

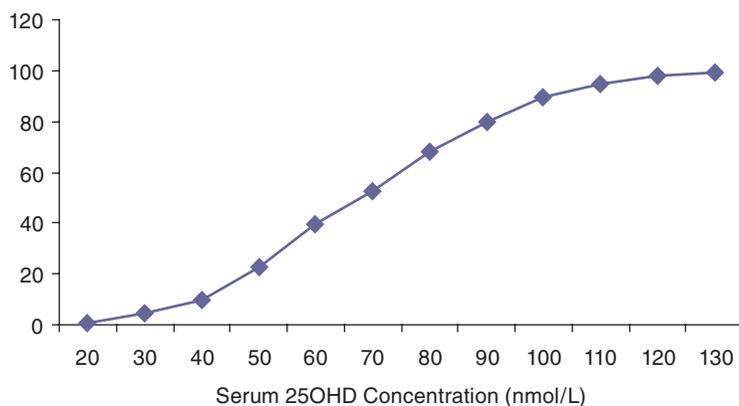


FIGURE I-13 Cumulative distribution of serum 25OHD for 51- to 70-year-olds in Canada for the 2007 to 2009 time period.

SOURCE: CHMS, Cycle 1, 2007–2009.

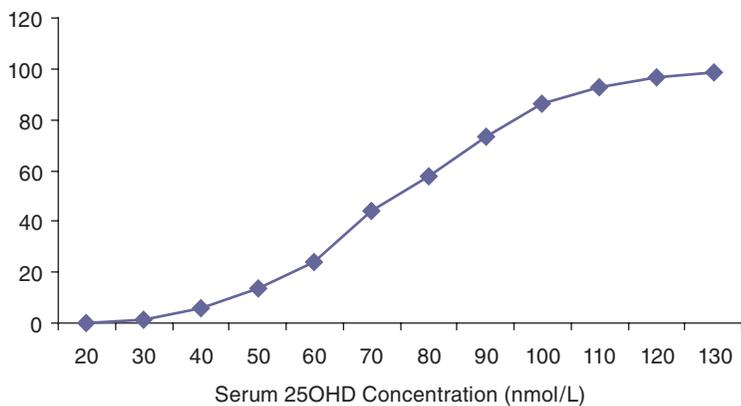


FIGURE I-14 Cumulative distribution of serum 25OHD for 71- to 79-year-olds in Canada for the 2007 to 2009 time period.
SOURCE: CHMS, Cycle 1, 2007–2009.