Global Epidemiology of HIV



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KEYWORDS

• HIV • Global health • Epidemiology • Antiretroviral therapy • Risk behavior

KEY POINTS

- HIV prevalence is increasing in nearly every geographic region in the world, mostly because of deaths averted from antiretroviral treatment.
- The main mode of HIV transmission in sub-Saharan Africa is heterosexual contact; mother-to-child transmission rates are decreasing.
- Injection drug use is a major risk factor for HIV acquisition in Eastern Europe, Central Asia, North Africa, and the Middle East.
- Men who have sex with men remain at highest risk for infection in many countries of North America, Western Europe, and Oceania.
- Expanding access to HIV treatment will reduce vertical and horizontal transmission of HIV and decrease HIV morbidity and mortality globally.

INTRODUCTION

The HIV epidemic has shifted over the past 30 years, from the first reported cases in the early 1980s, to an estimated high of 3.7 million new infections in 1997, to declining new infections and AIDS-related mortality throughout the 2000s. In 2012, approximately 9.7 million people in low- and middle-income countries were on antiretroviral drugs (ART). This expansion of ART coverage has dramatically improved survival among people living with HIV (PLHIV), resulting in an increase in the number of PLHIV

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to an estimated all-time high of 35.3 million in 2012 (**Table 1**). Increased access to ART has averted an estimated 5.2 million AIDS-related deaths in low- and middle-income countries from 1995 to 2010, with a 28% reduction in deaths from 2006 to 2012 (**Table 2**). ^{1,4} Even as PLHIV live longer, the incidence of new infections continues

Table 1					
Estimated adults and children living with HIV, by region					
	2000	2003	2006	2009	2012
Sub-Saharan Africa					
Adults & Children	20,800,000	22,800,000	23,500,000	24,200,000	25,000,000
Adults	18,800,000	20,200,000	20,500,000	21,100,000	22,100,000
Women 15+ y of age	10,700,000	11,600,000	11,800,000	12,200,000	12,900,000
Children	2,100,000	2,600,000	3,000,000	3,100,000	2,900,000
Asia					
Adults & Children	3,820,000	4,380,000	4,550,000	4,580,000	4,780,000
Adults	3,820,000	4,280,000	4,340,000	4,470,000	4,580,000
Women 15+ y of age	1,187,000	1,430,000	1,480,000	1,620,000	1,650,000
Children	94,300	143,600	185,300	206,900	208,200
North Africa and Middle	East				
Adults & Children	130,000	170,000	200,000	230,000	260,000
Adults 15+ y of age	120,000	150,000	180,000	210,000	250,000
Women 15+ y of age	59,000	69,000	77,000	86,000	100,000
Children	9300	13,000	16,000	18,000	20,000
Latin America and the Ca	ribbean				
Adults & Children	1,580,000	1,570,000	1,560,000	1,650,000	1,750,000
Adults 15+ y of age	1,550,000	1,550,000	1,530,000	1,530,000	1,630,000
Women 15+ y of age	500,000	520,000	520,000	530,000	560,000
Children	65,000	72,000	73,000	67,000	56,000
North America, Western	Europe, and C	ceania			
Adults & Children	1,544,000	1,682,000	1,866,000	2,049,000	2,211,000
Adults 15+ y of age	1,543,000	1,679,000	1,863,000	2,046,000	2,208,000
Women 15+ y of age	323,000	366,000	408,000	448,000	488,000
Children	6600	6600	6300	6200	6100
Eastern Europe and Cent	ral Asia				
Adults & Children	760,000	1,000,000	1,100,000	1,200,000	1,300,000
Adults 15+ y of age	750,000	990,000	1,100,000	1,200,000	1,300,000
Women 15+ y of age	300,000	430,000	460,000	440,000	430,000
Children	8700	16,000	19,000	19,000	19,000
Global					
Adults & Children	28,700,000	31,700,000	32,800,000	34,000,000	35,300,000
Adults 15+ y of age	26,500,000	28,800,000	29,500,000	30,500,000	32,100,000
Women 15+ y of age	13,100,000	14,400,000	14,800,000	15,300,000	16,100,000
Children	2,300,000	2,900,000	3,300,000	3,400,000	3,300,000

From Global report: UNAIDS report on the global AIDS epidemic 2013. Available at: http://www.unaids.org/en/media/unaids/contentassets/documents/epidemiology/2013/gr2013/UNAIDS_Global_Report_2013_en.pdf. Accessed May 9, 2014; with permission.

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