S3 Table. Early median CD4 cell counts in infected adults from several large population studies*. The sources of the studies, the periods of study, measurement times, and other details are mentioned. The USA and European studies report IQRs, whereas the CASCADE study provides 95% CIs. NA - not available.

Region	Time	Measureme-	Risk group	CD4 counts	Sample	Other
(Reference)	period	nt time		$(cells/\mu L)$	size (n)	details
$USA^{\ddagger}[1]$	2006 - 15	Within 6 m.o.	MSM	387(227 - 555)	17,779	
		diagnosis	HET	308 (125 - 508)	8,310	
Europe [2]	2002 - 07	Within 6 m.o.	MSM	435 (259 - 585)	2,084	$P < 10^{-3}$
		diagnosis	HET	280 (110 - 458)	1,501	
England &	1990 - 98	Within 6 m.o.	MSM	331 (NA)**	6,213	$P < 10^{-3}$
Wales [3]		diagnosis	HET	230 (NA)**	2,637	
Europe &	1979 - 00	Serocon-	MSM (age<40)	621 (609 - 634)	2,941	$n = 5739^{\ddagger\ddagger}$.
Australia		version	MSM (age>40)	578 (556 - 601)		54.7% of n
$SCs^{\dagger\dagger}$ [4]			HET men	576 (545 - 607)	889	(MSM &
			(age < 40)			hemophi-
			HET men	534 (501 - 569)		liac men)
			(age>40)			only men.
			HET women	623 (599 - 647)		20.4% of n
			(age < 40)			women.
			HET women	580 (548 - 612)		12.6% of n
			(age>40)			aged>40.

^{*}When many studies were available with overlapping durations and geographical locations, we chose data from the study with the larger sample size, (as in the case of New York city [1]).

References

- 1. Robertson, M. M., Braunstein, S. L., Hoover, D. R., Li, S. & Nash, D. Estimates of the time from seroconversion to ART initiation among people newly diagnosed with HIV from 2006 to 2015, New York City. Clin. Infect. Dis. 71, e308–e315 (2019). URL https://doi.org/10.1093/cid/ciz1178.
- Frentz, D. et al. Patterns of transmitted HIV drug resistance in Europe vary by risk group. PLoS ONE 9, e94495 (2014).
 URL https://doi.org/10.1371/journal.pone.0094495.
- 3. Gupta, S. B., Gilbert, R. L., Brady, A. R., Livingstone, S. J. & Evans, B. G. CD4 cell counts in adults with newly diagnosed HIV infection: results of surveillance in England and Wales, 1990-1998. AIDS 14, 853-861 (2000). URL https://journals.lww.com/aidsonline/Fulltext/2000/05050/CD4_cell_counts_in_adults_with_newly_diagnosed_HIV.12.aspx.
- 4. CASCADE Collaboration. Differences in CD4 cell counts at seroconversion and decline among 5739 HIV-1-infected individuals with well-estimated dates of seroconversion. J. Acquir. Immune Defic. Syndr. 34, 76-83 (2003). URL https://journals.lww.com/jaids/Fulltext/2003/09010/Differences_in_CD4_Cell_Counts_at_Seroconversion.12.aspx.

 $^{^{\}ddagger}$ The proportion of females was 22.2% and the age group 13-29 had 35.6% of n=28,162 individuals.

^{**}We chose the SDs from the Europe (2002-07) study (see Methods).

 $^{^{\}dagger\dagger}$ We used the SDs corresponding to age < 40 years. For HET, we used the largest SD among HET men and women.

 $^{^{\}ddagger\ddagger}n$ includes MSM, HET, injection drug users, and hemophiliac men.