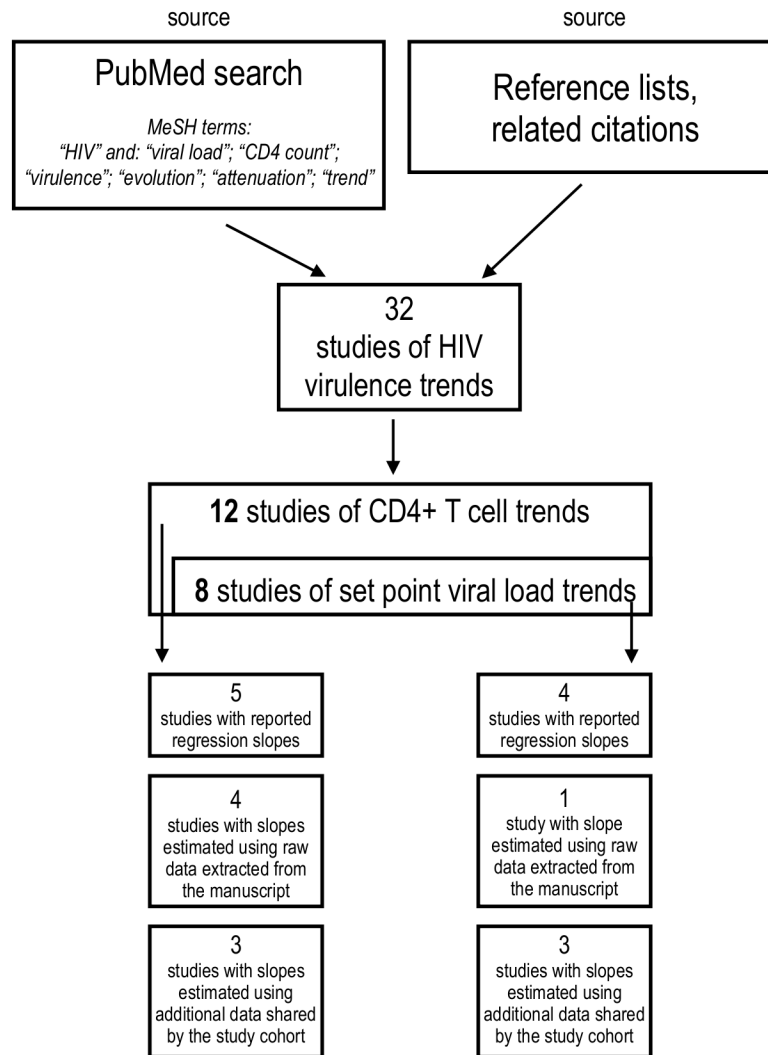


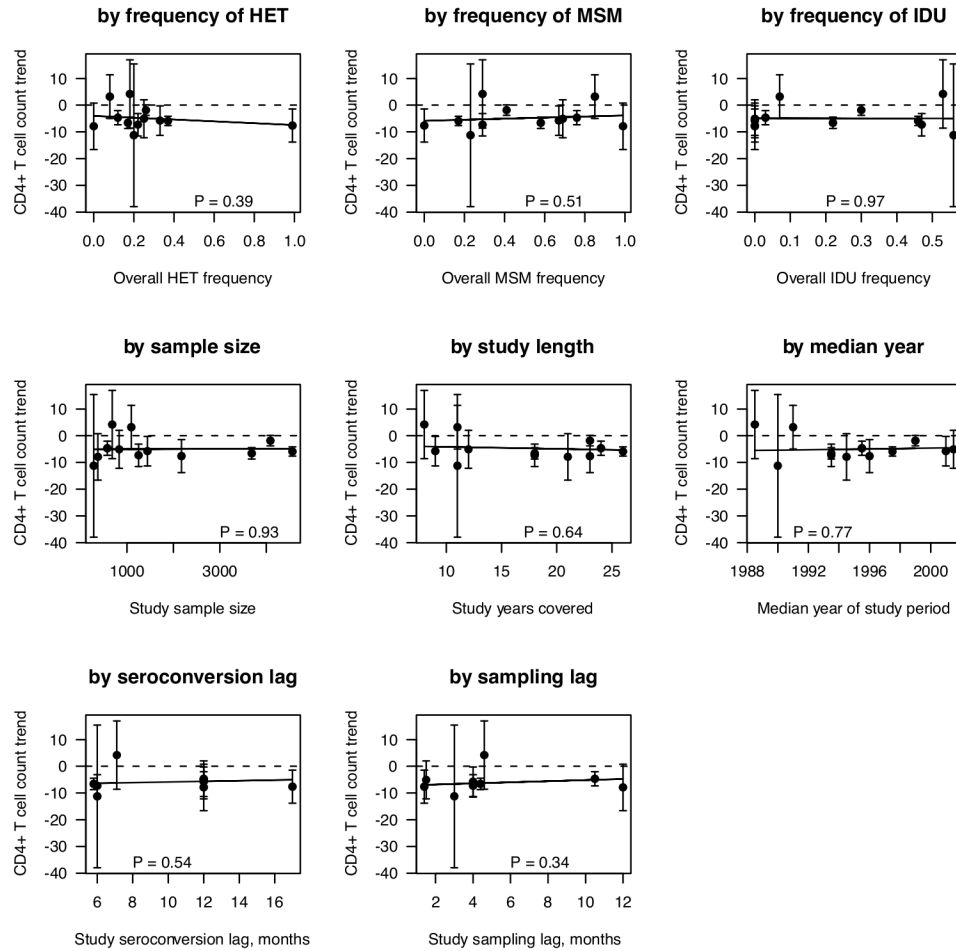
Supplemental Document 1. Publications that have addressed the potential changing virulence of HIV-1.

Study	Cohort location	Result	Virulence measurement			
Anonymous (1988)	US	less virulent	AIDS cases			
Gail (1990)	US	less virulent	AIDS cases			
Biggar (1990)	CA, UA, Eur, AU	stable	Time to AIDS			
Taylor (1991)	US	less virulent	Time to AIDS			
van Griensven (1992)	NL, US	more virulent	Time to AIDS			
Veugelers (1994)	CA, NL, US	more virulent	Time to AIDS			
Holmberg (1995)	US	stable	CD4 slope			
O'Brien (1995)	US	less virulent	Time to AIDS			
Galai (1996)	IT	stable	CD4 count			
Hessol (1996)	NL, US	less virulent	Time to AIDS			
Keet (1996)	NL	less virulent	Time to AIDS			
Munoz (1996)	US	less virulent	Time to AIDS			
Carre (1997)	FR	stable	Time to AIDS			
Sinicco (1997)	IT	more virulent	CD4 slope			
Webber (1998)	US	less virulent	Time to AIDS			
Vanhems (1999)	CH	stable	CD4 count			
Easterbrook (2000)	GB	stable	CD4 count			
CASCADE (2000)	Eur, AU, CA	stable	Time to AIDS			
Hendriks (2000)	CA, NL	stable	CD4 slope			
CASCADE (2003)	Eur, AU, CA	stable	CD4 slope			
Arien (2005)	BE	less virulent	Fitness assay			
Dorrucci (2005)	IT	more virulent	CD4 count			
Müller (2006)	CH	stable	CD4 slope			
Gali (2007)	NL	more virulent	CD4:CD8 slope			
Dorrucci (2007)	Eur, AU, CA	more virulent	CD4 count			
Herbeck (2008)	US	stable	CD4 count			
Crum-Cianflone (2009)	US	more virulent	CD4 count			
Gras (2009)	NL	more virulent	CD4 count			
Müller (2009)	IT	more virulent	CD4 slope			
Potard (2009)	FR	more virulent	CD4 count			
Troude (2009)	FR	stable	CD4 count			
Crum-Cianflone (2010)	US	more virulent	CD4 slope			

Supplemental Document 2. Schematic of the study selection for inclusion in meta-analysis.



Supplemental Document 3. Meta-regression analyses of study level covariates for studies of trends in baseline CD4+ T cell counts. Mixed-effect model analysis of the relationships between study characteristics and the magnitude of trends in baseline CD4+ T cell counts. No covariate had a significant effect on the trend.



Supplemental Document 4. Meta-regression analyses of study level covariates for studies of trends in viral loads. Mixed-effect model analysis of the relationships between study characteristics and the magnitude of trends in set point viral loads. Seroconversion lag was the only covariate associated with a significant effect on the trend.

