Figure S1. Flow chart.
**Figure S2.** T cell reconstitution on successful cART, stratified by the timing of treatment initiation. The graphs represent the time course of the absolute CD4$^+$ T cell count (A), the relative CD4$^+$ T cell count (B) and the CD4$^+$/CD8$^+$ ratio (C) over time, with undetectable plasma HIV-RNA, in patients starting treatment during the primary infection (blue boxes) or during the chronic phase (red boxes). The boxes span the 25th and 75th percentiles, the error bars span the 10th and 90th percentiles, and each midline represents the median.

**Figure S2A**
Figure S3. Kaplan-Meier estimates of the probability of achieving a low level of HIV-DNA and a normal T cell count (OVIR status), stratified by the timing of treatment initiation. The curves represent the percentage probability of achieving OVIR status (i.e. HIV-DNA $<2.3 \log_{10}$ copies/10$^6$ PBMC, a normal absolute/relative CD4$^+$ T cell count and CD4$^+$/CD8$^+$ ratio) over time, with undetectable plasma HIV-RNA, in patients starting treatment during the primary infection (PHI, $n=35$, black line) or during the chronic infection before CD4$^+$ T cell nadir falls below 500/mm$^3$ (CHI$>$500, $n=15$, grey line).