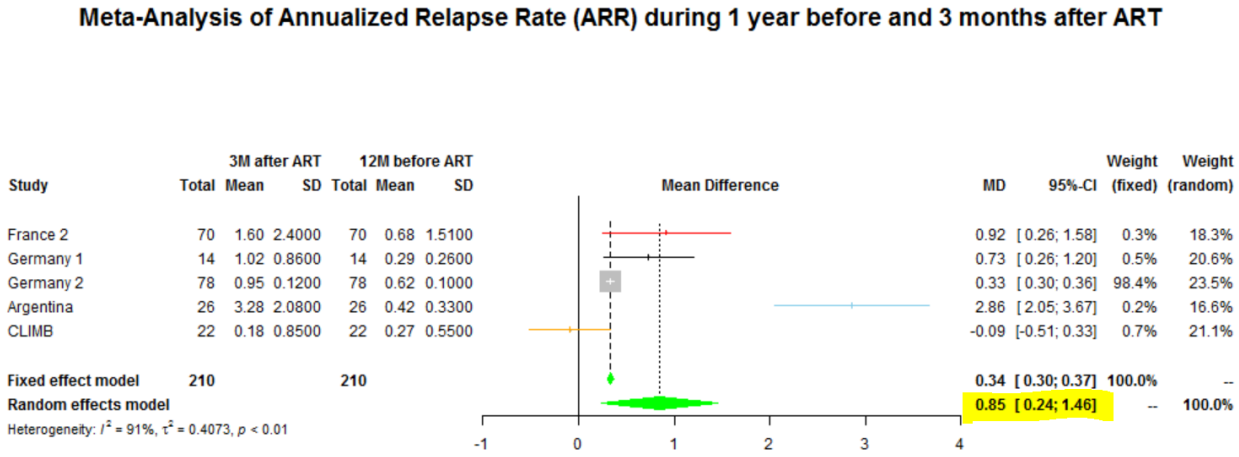
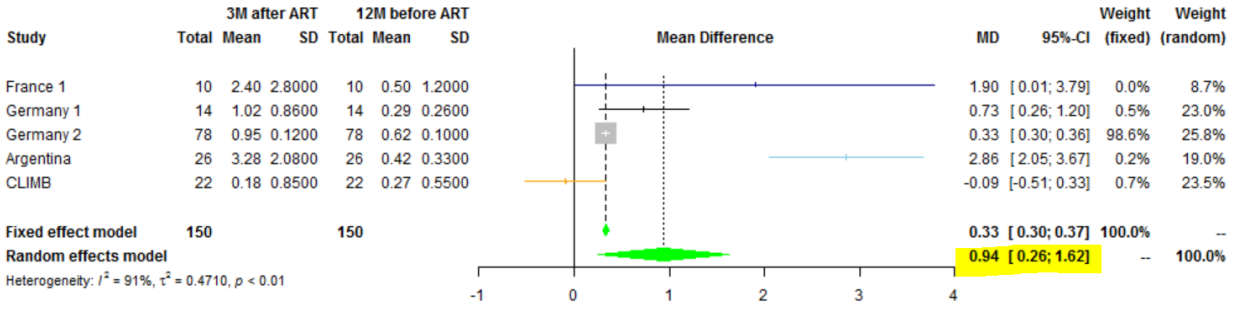
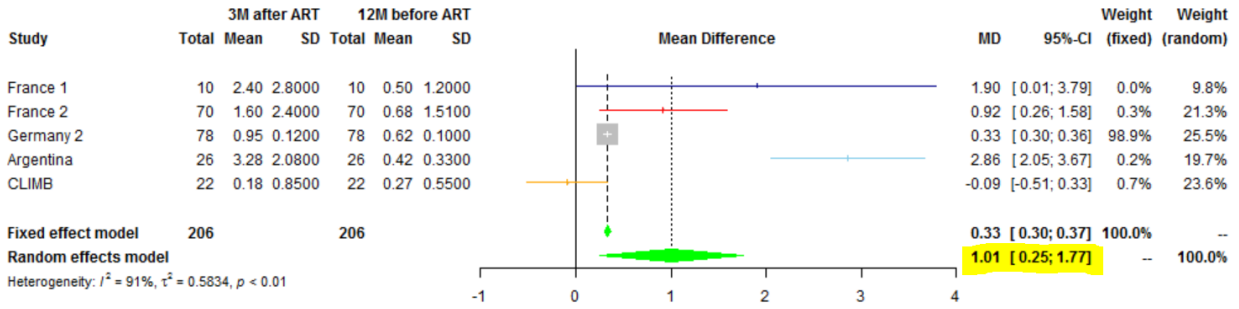
Supplementary Results.

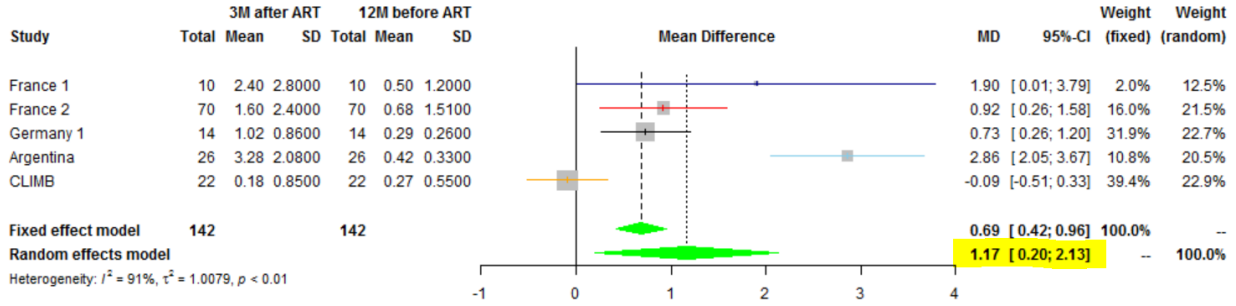
3. Meta-Analysis. Sensitivity analyses.



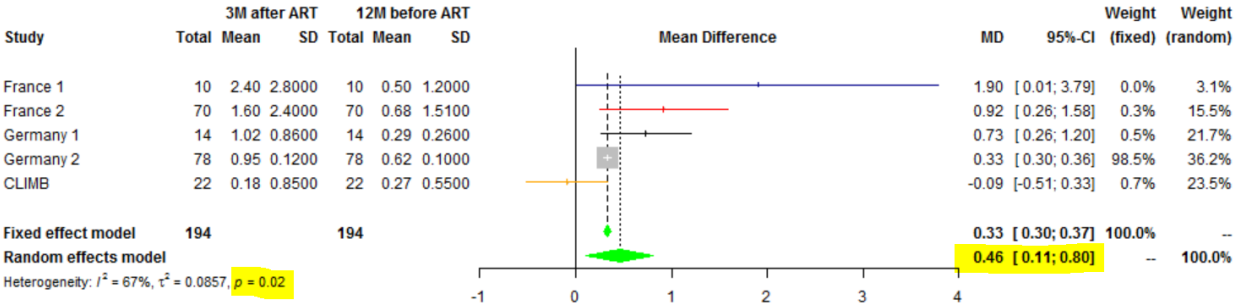




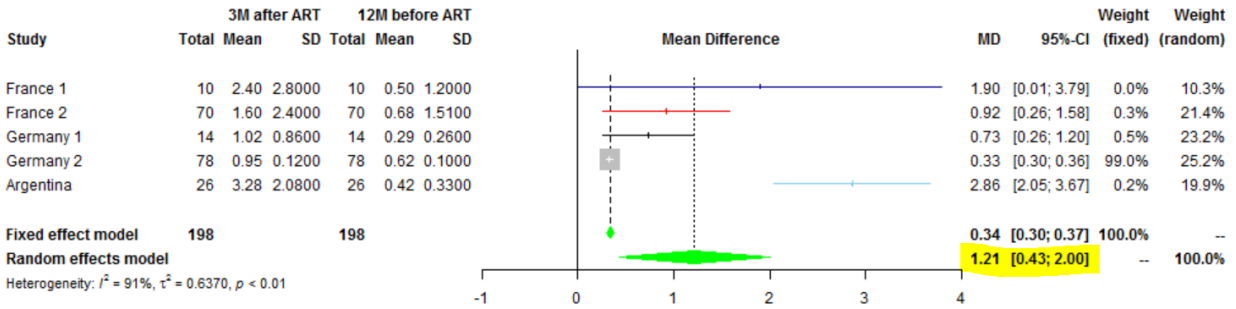
Meta-Analysis of Annualized Relapse Rate (ARR) during 1 year before and 3 months after ART



Meta-Analysis of Annualized Relapse Rate (ARR) during 1 year before and 3 months after ART



Meta-Analysis of Annualized Relapse Rate (ARR) during 1 year before and 3 months after ART



4. Additional results: comparing relapse rates across the cohorts.

Comparing the ARRs 12 months pre-ART, we see that the ARRs of the German participants were significantly higher than the ARRs of the other participants (ARRMean, Germany - ARRMean, BWH = 1.660, adjusted $p < 1.0\times10\text{-}13$; ARRMean, Germany - ARRMean, Argentina = 1.740, adjusted $p < 1.0\times10\text{-}17$; ARRMean, Germany - ARRMean, France = 0.933, adjusted $p < 1.0\times10\text{-}7$; Dunn's multiple comparison test). The French participants showed higher ARRs 12 months pre-ART than the Argentinian participants (ARRMean, France - ARRMean, Argentina = 0.808, adjusted p = 0.022, Dunn's multiple comparison test). No significant differences in the ARRs 12 months pre-ART were observed when comparing the BWH participants against the French and Argentinian participants (ARRMean, France - ARRMean, BWH = 0.727, adjusted p=0.074; ARRMean, Argentina - ARRMean, BWH = -0.080, adjusted $p\approx1$; Dunn's multiple comparison test).

Comparing the ARRs 3 months post-ART, we observed that the German participants again showed significantly higher ARRs than other participants (ARRMean, Germany - ARRMean, BWH = 7.045, adjusted $p < 1.0\times10\text{-}16$; ARRMean, Germany - ARRMean, Argentina = 3.997, adjusted $p < 1.0\times10\text{-}7$; ARRMean, Germany - ARRMean, France = 5.370, adjusted $p < 1.0\times10\text{-}12$; Dunn's multiple comparison test). No significant differences in the ARRs 3 months post-ART were observed when comparing the French participants against the BWH and Argentinian participants (ARRMean, France - ARRMean, BWH = 1.675, adjusted p=0.392; ARRMean, France - ARRMean, Argentina = -1.373, adjusted p=0.464; Dunn's multiple comparison test). The Argentinian participants showed significantly higher ARRs than the BWH participants (ARRMean, Argentina - ARRMean, BWH = 3.049, adjusted p=0.014, Dunn's multiple comparison test).

All of these significant and insignificant results for the Dunn's multiple comparison tests were confirmed by the parametric Tukey's tests, except that the less conservative Tukey's tests indicated that the French participants had higher ARRs 12 months pre-ART and 3 months post-ART than the BWH participants (adjusted $p < 1.0\times10\text{-}3$ and adjusted p=0.023 respectively, Tukey's tests). Therefore, to an extent, the BWH participants had lower ARRs 12 months pre-ART and 3 months post-ART than the French participants.

We could conclude that the BWH participants did not have significantly different ARRs 3 months pre-ART from the other participants. The ARRs 12 months pre-ART of the BWH and Argentinian participants were also not significantly different. However, the BWH participants had lower ARRs 3 months post-ART than all the other participants (ARRMean, Germany - ARRMean, BWH = 7.045, ARRMean, France - ARRMean, BWH = 1.675, ARRMean, Argentina - ARRMean, BWH = 3.049). Although the BWH participants also had lower ARRs 12 months pre-ART than the German and French participants (ARRMean, Germany - ARRMean, BWH = 1.660, ARRMean, France - ARRMean, BWH = 0.727), the differences were not as drastic as the ARRs 3 months post-ART. All of these suggest that BWH was different from the other studies because, compared to the pre-ART ARRs, the BWH participants had lower post-ART ARRs than the other participants.

Correlation between pre-ART and post-ART relapse counts. A positive linear relationship between the relapse counts 12 months pre-ART and 3 months post-ART was observed (regression coefficient = 0.54, $p < 1.0 \times 10\text{-}17$, with intercept; regression coefficient = 0.13, $p=0.06$, adjusted for site; regression coefficient = 0.17, $p < 1.0 \times 10\text{-}2$, adjusted for site, age at ART, disease duration, and ART type; Supplementary Tables 1-9).