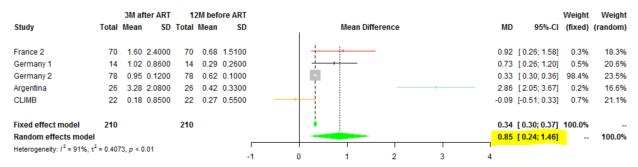
Supplementary Results.

3. Meta-Analysis. Sensitivity analyses.

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



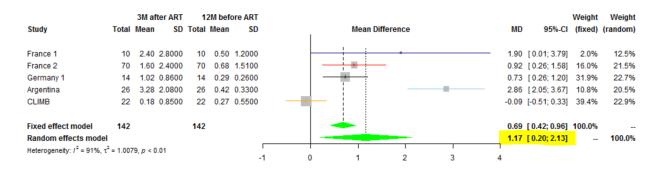
Meta-Analysis of Annualized Relapse Rate (ARR) during 1 year before and 3 months after ART

		3M at	fter ART	1	2M bef	ore ART								Weight	Weight
Study	Total	Mean	SD	Total	Mean	SD			Mean Diffe	rence		MD	95%-CI	(fixed)	(random)
								.							
France 1	10	2.40	2.8000	10	0.50	1.2000						1.90	[0.01; 3.79]	0.0%	8.7%
Germany 1	14	1.02	0.8600	14	0.29	0.2600		+				0.73	[0.26; 1.20]	0.5%	23.0%
Germany 2	78	0.95	0.1200	78	0.62	0.1000		+				0.33	[0.30; 0.36]	98.6%	25.8%
Argentina	26	3.28	2.0800	26	0.42	0.3300						2.86	[2.05; 3.67]	0.2%	19.0%
CLIMB	22	0.18	0.8500	22	0.27	0.5500	+	H-i				-0.09	[-0.51; 0.33]	0.7%	23.5%
Fixed effect model	150			150				•				0.33	[0.30; 0.37]	100.0%	
Random effects model Heterogeneity: $l^2 = 91\%$, $\tau^2 = 0.4710$, $p < 0.01$											0.94	[0.26; 1.62]		100.0%	
		0.01			ſ		1		1	1					
						-1	I (0	1	2	3	4			

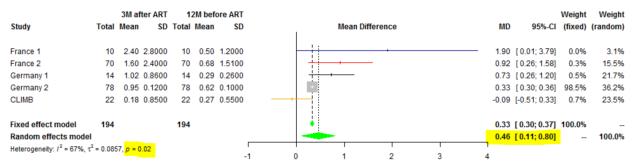
Meta-Analysis of Annualized Relapse Rate (ARR) during 1 year before and 3 months after ART

Study	: Total M	3M after ART Mean SD	12 Total		ore ART SD	I	Mean D	ifference		MD	95%-CI	Weight (fixed)	Weight (random)
France 1 France 2 Germany 2	70 78	2.40 2.8000 1.60 2.4000 0.95 0.1200	70	0.68 0.62	1.2000 1.5100 0.1000	+		_		0.92 0.33	[0.01; 3.79] [0.26; 1.58] [0.30; 0.36]	0.0% 0.3% 98.9%	9.8% 21.3% 25.5%
Argentina CLIMB Fixed effect model		3.28 2.0800 0.18 0.8500			0.3300 0.5500					-0.09	[2.05; 3.67] [-0.51; 0.33] [0.30; 0.37]	0.2% 0.7% 100.0%	19.7% 23.6%
Random effects model Heterogeneity: l^2 = 91%, τ^2 = 0.5834, p < 0.01				г -1	0		2	3	<mark>1.01</mark>	[0.25; 1.77]		100.0%	

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

	3M at	fter ART	12M before ART						Weight	Weight	
Study	Total	Mean	SD	Total	Mean	SD	Mean Difference	MD	95%-CI	(fixed)	(random)
France 1	10	2.40	2.8000	10	0.50	1.2000	1	.90	[0.01; 3.79]	0.0%	10.3%
France 2	70	1.60	2.4000	70	0.68	1.5100	0	92	[0.26; 1.58]	0.3%	21.4%
Germany 1	14	1.02	0.8600	14	0.29	0.2600	0	73	[0.26; 1.20]	0.5%	23.2%
Germany 2	78	0.95	0.1200	78	0.62	0.1000	• 0	.33	[0.30; 0.36]	99.0%	25.2%
Argentina	26	3.28	2.0800	26	0.42	0.3300	2	86	[2.05; 3.67]	0.2%	19.9%
Fixed effect model	198			198			• _0	.34	[0.30; 0.37]	100.0%	
Random effects mode	1						1	.21	[0.43; 2.00]		100.0%
Heterogeneity: / ² = 91%, τ ² = 0.6370, ρ < 0.01											
						-	0 1 2 3 4				

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 < $1.0 \times 10-13$; ARRMean, Germany - ARRMean, Argentina = 1.740, adjusted p < $1.0 \times 10-17$; ARRMean, Germany - ARRMean, France = 0.933, adjusted p < $1.0 \times 10-7$; 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 ≈ 1 ; 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 $p < 1.0 \times 10-16$; ARRMean, Germany - ARRMean, Argentina = 3.997, adjusted $p < 1.0 \times 10-7$; ARRMean, Germany - ARRMean, France = 5.370, adjusted $p < 1.0 \times 10-12$; 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 $p < 1.0 \times 10-3$ 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 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 < 1.0×10 -17, with intercept; regression coefficient = 0.13, p=0.06, adjusted for site; regression coefficient = 0.17, p < 1.0×10 -2, adjusted for site, age at ART, disease duration, and ART type; Supplementary Tables 1-9).