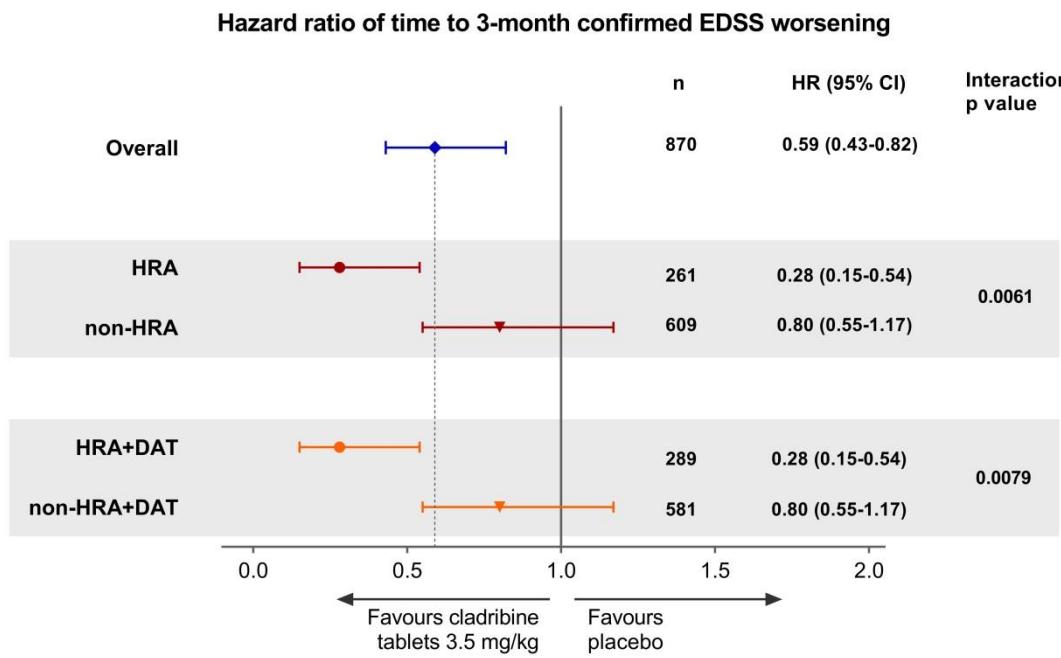
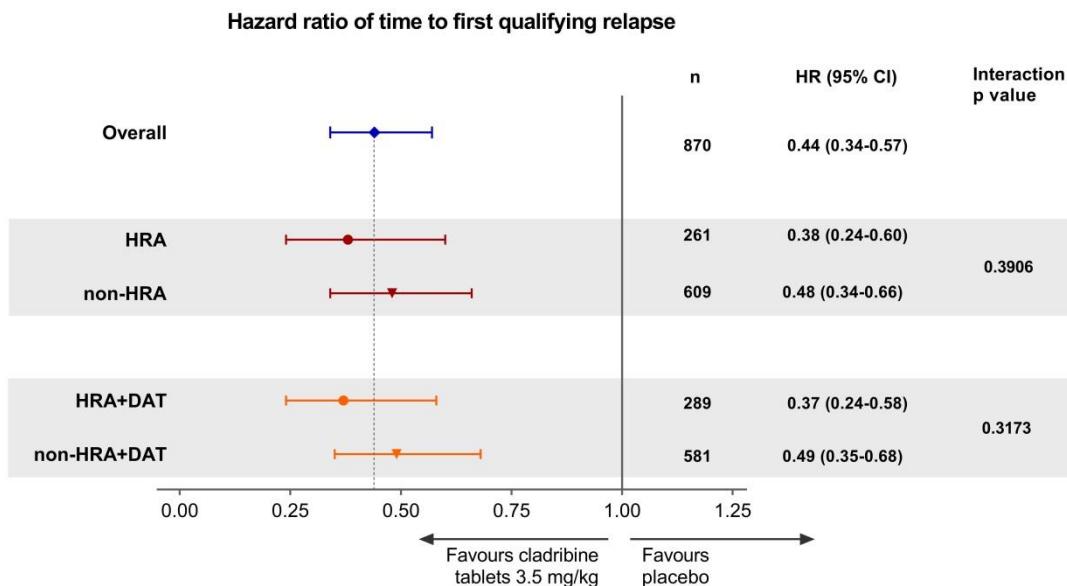


Supplementary Figure 1. Forest plot of Hazard Ratio of time to 3-month confirmed EDSS worsening by HDA subgroups for cladribine tablets 3.5 mg/kg vs placebo.



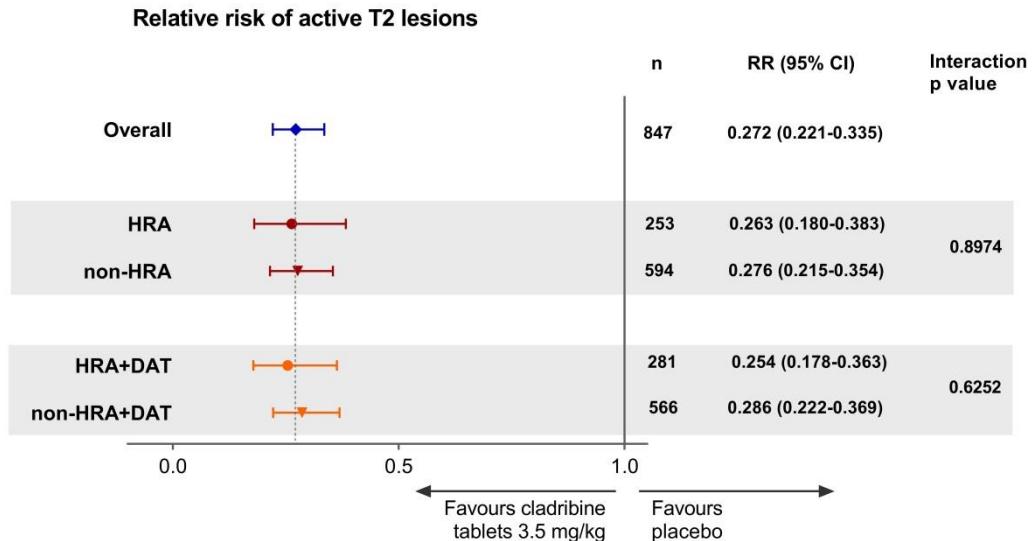
EDSS, Expanded Disability Status Scale; HDA, high disease activity; HRA, high relapse activity; HRA+DAT, high relapse activity plus disease activity on treatment

Supplementary Figure 2. Forest plot of Hazard Ratio of time to first qualifying relapse by HDA subgroup for cladribine tablets 3.5 mg.kg vs placebo.



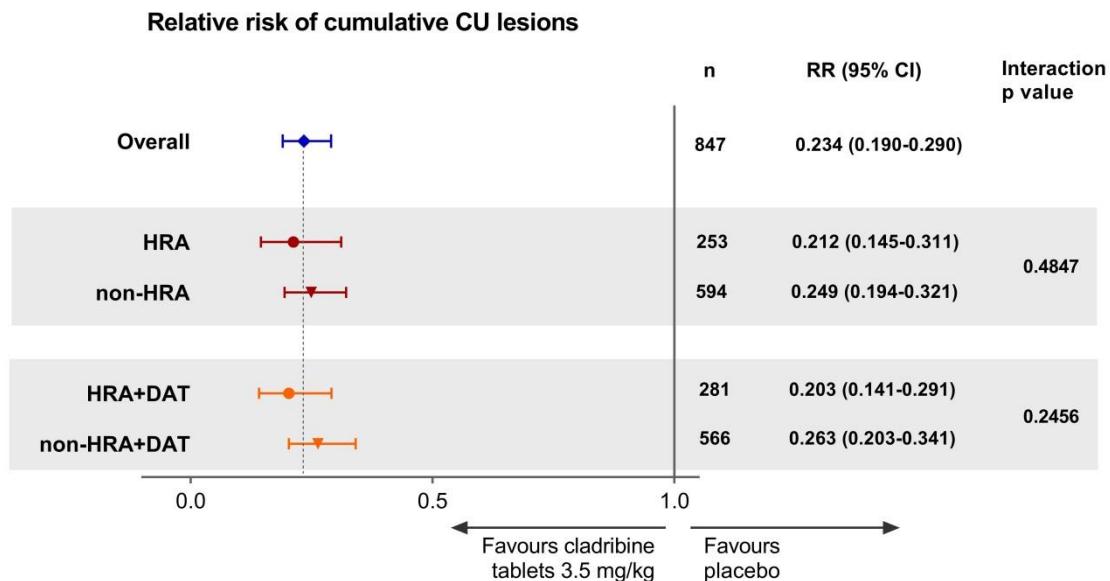
HDA, high disease activity; HRA, high relapse activity; HRA+DAT, high relapse activity plus disease activity on treatment

Supplementary Figure 3. Forest plot of Relative Risk of cumulative number of active T2 lesions by HDA subgroups of cladribine tablets 3.5 mg/kg vs placebo



HDA, high disease activity; HRA, high relapse activity; HRA+DAT, high relapse activity plus disease activity on treatment

Supplementary Figure 4. Forest plot of Relative Risk of cumulative number of combined unique lesions by HDA subgroup for cladribine tablets 3.5 mg/kg vs placebo.



CU, combined unique; HDA, high disease activity; HRA, high relapse activity; HRA+DAT, high relapse activity plus disease activity on treatment

Supplementary Table 1. Baseline demographics and disease characteristics of patients in the ITT population treated with placebo or cladribine tablets 3.5 mg/kg by subgroup

Characteristic	Value	Placebo (N=437)					Cladribine tablets 3.5 mg/kg (N=433)				
HDA subgroup (N)		Overall N=437	HRA N=131	Non-HRA N=306	HRA+DAT N=149	Non-HRA+DAT N=288	Overall N=433	HRA N=130	Non-HRA N=303	HRA+DAT N=140	Non-HRA+DAT N=293
Age, years	Mean (SD)	38.7 (9.9)	36.7 (10.3)	39.5 (9.6)	37.1 (10.2)	39.6 (9.6)	37.9 (10.3)	36.5 (9.5)	38.6 (10.6)	36.3 (9.5)	38.7 (10.6)
Female	n (%)	288 (65.9)	82 (62.6)	206 (67.3)	94 (63.1)	194 (67.4)	298 (68.8)	96 (73.8)	202 (66.7)	102 (72.9)	196 (66.9)
Disease duration, years	Mean (SD)	5.18 (5.45)	4.51 (5.48)	5.47 (5.43)	4.75 (5.34)	5.41 (5.51)	4.68 (5.51)	3.90 (5.07)	5.01 (5.67)	3.94 (4.92)	5.03 (5.75)
Prior use of DMDs	n (%)	132 (30.2)	38 (29.0)	94 (30.7)	56 (37.6)	76 (26.4)	110 (25.4)	36 (27.7)	74 (24.4)	46 (32.9)	64 (21.8)
Relapses in prior 12 months, n	n (%)										
0		0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
1		306 (70.0)	0 (0.0)	306 (100.0)	18 (12.1)	288 (100.0)	302 (69.7)	0 (0.0)	302 (99.7)	10 (7.1)	292 (99.7)
2		110 (25.2)	110 (84.0)	0 (0.0)	110 (73.8)	0 (0.0)	106 (24.5)	105 (80.8)	1 (0.3)	105 (75.0)	1 (0.3)
≥3		21 (4.8)	21 (16.0)	0 (0.0)	21 (14.1)	0 (0.0)	25 (5.8)	25 (19.2)	0 (0.0)	25 (17.9)	0 (0.0)
EDSS score at baseline	Mean (SD)	2.94 (1.31)	2.91 (1.37)	2.95 (1.29)	2.97 (1.35)	2.92 (1.30)	2.83 (1.25)	2.90 (1.33)	2.81 (1.22)	2.86 (1.32)	2.82 (1.22)
Number of T1 Gd+ lesions at baseline	Mean (SD)	0.8 (2.1)	1.1 (3.0)	0.7 (1.5)	1.0 (2.8)	0.7 (1.5)	1.0 (2.7)	1.4 (3.6)	0.8 (2.2)	1.3 (3.5)	0.8 (2.2)
Patients with ≥1 T1 Gd+ lesion at baseline	n (%)	128 (29.3)	41 (31.3)	87 (28.4)	47 (31.5)	81 (28.1)	138 (31.9)	50 (38.5)	88 (29.0)	52 (37.1)	86 (29.4)
Number of T2 lesions at baseline	Mean (SD)	27.4 (17.7)	30.0 (20.3)	26.2 (16.4)	29.9 (19.8)	26.0 (16.4)	25.3 (16.3)	25.3 (17.4)	25.3 (15.9)	25.2 (17.2)	25.3 (15.9)
T2 Lesion	Mean	14.31 (13.13)	15.31 (14.07)	13.87 (12.7)	14.84	14.03	14.84 (16.28)	14.67 (16.86)	14.91 (16.06)	14.99 (17.54)	14.77 (15.68)

Characteristic	Value	Placebo (N=437)					Cladribine tablets 3.5 mg/kg (N=433)				
volume at baseline, cm ²	(SD)				(13.58)	(12.91)					

EDSS, expanded disability status scale; Gd+, gadolinium enhancing; HRA, high relapse activity; HRA+DAT, high relapse activity plus disease activity on treatment

Supplementary Table 2. Baseline demographics and disease characteristics of patients in the safety population treated with placebo or cladribine tablets 3.5 mg/kg by subgroup

Characteristic	Value	Placebo			Cladribine tablets 3.5 mg/kg		
		Overall N=433	HRA N=131	HRA+DAT N=148	Overall N=442	HRA N=131	HRA+DAT N=142
HDA subgroup (N)							
Age, years	Mean (SD)	38.7 (9.9)	36.7 (10.3)	37.1 (10.2)	37.8 (10.4)	36.5 (9.5)	36.2 (9.5)
Female	n (%)	284 (65.6)	82 (62.6)	93 (62.8)	307 (69.5)	97 (74.0)	104 (73.2)
Disease duration, years	Mean (SD)	5.20 (5.47)	4.51 (5.48)	4.77 (5.36)	4.65 (5.48)	3.94 (5.05)	3.98 (4.88)
Prior use of DMDs	n (%)	130 (30)	38 (29.0)	55 (37.2)	113 (25.6)	36 (27.5)	47 (33.1)
Relapses in prior 12 months, n	n (%)						
0		0	0	0	0	0	0
1		302 (69.7)	0	17 (11.5)	310 (70.1)	0	11 (7.7)
2		110 (25.4)	110 (84.0)	110 (74.3)	108 (24.4)	107 (81.7)	107 (75.4)
≥3		21 (4.8)	21 (16.0)	21 (14.2)	24 (5.4)	24 (18.3)	24 (16.9)
EDSS score at baseline	Mean (SD)	2.94 (1.31)	2.91 (1.37)	2.98 (1.36)	2.83 (1.26)	2.87 (1.33)	2.84 (1.31)
Number of T1 Gd+ lesions at baseline	Mean (SD)	0.8 (2.1)	1.1 (3.0)	1.0 (2.9)	1.0 (2.7)	1.4 (3.6)	1.3 (3.5)
Patients with ≥1 T1 Gd+ lesion at baseline	n (%)	126 (29.1)	41 (31.3)	46 (31.1)	143 (32.4)	49 (37.4)	52 (36.6)
Number of T2 lesions at baseline	Mean (SD)	27.4 (17.7)	30.0 (20.3)	29.8 (19.8)	25.4 (16.3)	25.3 (17.4)	25.3 (17.2)

T2 Lesion volume at baseline, cm ²	Mean (SD)	14.38 (13.17)	15.31 (14.07)	14.86 (13.62)	15.04 (16.49)	14.89 (16.9)	15.16 (17.51)
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EDSS, expanded disability status scale; Gd+, gadolinium enhancing; HRA, high relapse activity; HRA+DAT, high relapse activity plus disease activity on treatment