

Supplementary Online Content

Wijburg MT, Kleerekooper I, Lissenberg-Witte BI, et al. Association of progressive multifocal leukoencephalopathy lesion volume with JC virus polymerase chain reaction results in cerebrospinal fluid of natalizumab-treated patients with multiple sclerosis. *JAMA Neurol*. Published online March 12, 2018. doi:10.1001/jamaneurol.2018.0094

eFigure. JCV PCR Copy Numbers vs Total Lesion Volume

eTable . Association of Qualitative and Quantitative CSF JCV PCR Results With PML Imaging Characteristics and Presence of PML Symptoms

This supplementary material has been provided by the authors to give readers additional information about their work.

eTable . Association of qualitative and quantitative CSF JCV PCR results with PML imaging characteristics and presence of PML symptoms.

Qualitative JCV PCR		JCV PCR +	JCV PCR –	P-value
		n= 47	n=9	
PML lesion dissemination	<i>unilobar (%)</i>	12 (75.0)	4 (25.0)	0.051 ^a
	<i>multilobar (%)</i>	5 (62.5)	3 (37.5)	
	<i>widespread (%)</i>	30 (93.8)	2 (6.3)	
		OR for negative JCV PCR	95% CI	
Presence of PML symptoms	<i>asymptomatic</i>	3.0	0.67 – 13.1	0.21 ^b
Contrast enhancement	<i>present</i>	0.83	0.19 – 3.8	1.0 ^{b, c}
Perivascular T2 lesions	<i>present</i>	2.3	0.51 – 10.2	0.47 ^b
Quantitative JCV PCR		JC viral load, n=45^d		P-value
PML lesion dissemination	<i>unilobar</i>	104.5		0.10 ^e
	<i>multilobar</i>	250.0		
	<i>widespread</i>	593.0		
Presence of PML symptoms	<i>symptomatic</i>	471.0		0.17 ^f
	<i>asymptomatic</i>	205.5		
Contrast enhancement	<i>present</i>	323.5		0.19 ^{f, g}
	<i>not present</i>	538.5		
Perivascular T2 lesions	<i>present</i>	415.0		0.66 ^f
	<i>not present</i>	591.0		

The JC viral load is presented as median viral copies per ml CSF. ^a Calculated by Pearson chi-square test, ^b Calculated by 2-sided Fisher's exact test, ^c four patients without contrast enhanced T1 sequence, ^d two JCV PCR positive samples lack JCV DNA quantification, ^e calculated by Kruskal Wallis test, ^f calculated by Mann Whitney U test, ^g three patients without contrast enhanced T1 sequence.

Abbreviations: OR= odds-ratio, JCV= JC virus, PCR= polymerase chain reaction, CSF= cerebrospinal fluid, PML= progressive multifocal leukoencephalopathy.