

Table S8: Estimates, their standard errors, test statistic values, p-values and 95% confidence intervals for logit transformed sensitivity and specificity of κ -FLC index and OCB obtained by the bivariate mixed model separately for MS and CIS patients as well as the retransformed sensitivity and specificity estimates.

1) MS patients

A1) Variables in the estimation equation	Estimate	Std. Error	z	p-value	95% Confidence Interval	
					lower limit	upper limit
logit(sensitivity) (κ -FLC index)	2.126	0.206	10.331	< 0.001	1.723	2.530
logit(sensitivity) (difference of κ -FLC index to OCB)	-0.083	0.291	-0.286	0.775	-0.653	0.487
logit(1- specificity) (κ -FLC index)	-2.059	0.149	-13.797	< 0.001	-2.352	-1.767
logit(1-specificity) (difference of κ -FLC index to OCB)	-0.257	0.217	-1.189	0.235	-0.682	0.167

B1)	Sensitivity (estimated mean)	Specificity (estimated mean)
κ -FLC index	0.893	0.887
OCB	0.885	0.910

2) CIS patients

A2) Variables in the estimation equation	Estimate	Std. Error	z	p-value	95% Confidence Interval	
					lower limit	upper limit
logit(sensitivity) (κ -FLC index)	1.671	0.334	5.004	< 0.001	1.017	2.326
logit(sensitivity) (difference of κ -FLC index to OCB)	-0.165	0.486	-0.338	0.735	-1.117	0.788
logit(1- specificity) (κ -FLC index)	-1.979	0.281	-7.049	< 0.001	-2.529	-1.429
logit(1-specificity) (difference of κ -FLC index to OCB)	-0.986	0.446	-2.213	0.027	-1.859	-0.113

B2)	Sensitivity (estimated mean)	Specificity (estimated mean)
κ -FLC index	0.842	0.879 ^a
OCB	0.818	0.951 ^a

Note: ^a this difference is statistically significant ($p = 0.027$).

Legend: The bivariate mixed model is computed with the logit-transformed quantities of sensitivity and specificity and estimated via REML (restricted maximum likelihood), these estimates are provided in A). After re-transformation the quantities are easier to interpret and given in B). This analysis included studies with CIS and MS patients and did not include studies with mixed cohorts of CIS/MS patients.

Abbreviations: CIS, clinically isolated syndrome; FLC, free light chain; MS, multiple sclerosis; OCB, oligoclonal bands