Supplementary table

| variable | IR       | CI               | p       | N |
|----------|----------|------------------|---------|---|
| (Intercept) | 2.177   | [4.64, 11.78] | <0.001 | 35 |
| (Intercept) | 1.000   | [0.99, 1.00]   | 0.2449  |   |
| gender (female vs. male) | 0.489   | [0.19, 1.10]   | 0.0859  |   |
| age       | 0.021   | [0.98, 1.04]   | 0.5309  |   |
| (Intercept) | 2.711   | [5.58, 15.59]  | <0.001 | 35 |
| (Intercept) | 0.527   | [0.23, 1.19]   | 0.1752  |   |
| gender (female vs. male) | 0.365   | [0.18, 1.04]   | 0.0701  |   |
| age       | 0.100   | [0.97, 1.01]   | 0.7867  |   |
| (Intercept) | 20.092  | [460.10, 19.97]| <0.001 | 35 |
| (Intercept) | 0.999   | [0.98, 1.00]   | 0.1866  |   |
| gender (female vs. male) | 0.489   | [0.20, 1.17]   | 0.1189  |   |
| age       | 1.000   | [0.97, 1.03]   | 0.847   |   |
| (Intercept) | 11.43   | [2.33, 64.49]  | 0.00584 | 35 |
| (Intercept) | 1.000   | [1.00, 1.00]   | 0.51112 |   |
| gender (female vs. male) | 0.365   | [0.15, 0.80]   | 0.1662  |   |
| age       | 1.000   | [0.97, 1.04]   | 0.81120 |   |
| (Intercept) | 15.40   | [3.38, 82.26]  | <0.001 | 35 |
| (Intercept) | 0.986   | [0.96, 1.00]   | 0.7106  |   |
| gender (female vs. male) | 0.238   | [0.18, 0.84]   | 0.0238  |   |
| age       | 1.000   | [0.97, 1.04]   | 0.7908  |   |
| (Intercept) | 26.04   | [4.65, 1.00]   | <0.001 | 35 |
| Factor1   | 0.986   | [0.99, 1.00]   | 0.2314  |   |
| gender (female vs. male) | 0.375   | [0.15, 0.83]   | 0.1878  |   |
| age       | 1.000   | [0.97, 1.03]   | 0.9238  |   |
| (Intercept) | 35.15   | [4.94, 2.06]   | <0.001 | 35 |
| Factor1   | 1.000   | [1.00, 1.00]   | 0.2177  |   |
| gender (female vs. male) | 0.411   | [0.17, 0.91]   | 0.0342  |   |
| age       | 1.000   | [0.97, 1.03]   | 0.6232  |   |
| (Intercept) | 1.97    | [0.99, 9.99]   | 0.0640  | 30 |
| gender (female vs. male) | 0.45    | [0.18, 0.99]   | 0.0661  |   |
| age       | 1.01    | [0.97, 1.04]   | 0.6367  |   |

Estimated association between selected blood proteins and number of T2w lesions at baseline. Each model output is between two horizontal lines. For each model the incidence ratio (IR) of the estimate of main interest together with its 95% confidence interval (CI) and p-value (p) is presented.
Estimated association between selected blood proteins and EDSS progression within 4 years. Each model output is between two horizontal lines. For each model the odds ratio (OR) of the estimate of main interest together with its 95% confidence interval (CI) and p-value (p) is presented.
Estimated association between selected blood proteins and time to second clinical event. Each model output is between two horizontal lines. For each model the hazard ratio (HR) of the estimate of main interest together with its 95% confidence interval (CI) and p-value (p) is presented.

| Variable | HR  | CI          | p   | N  |
|----------|-----|-------------|-----|----|
| 8a       | 1.60 | [0.99, 1.06]| 0.277| 31 |
| gender   | 0.60 | [0.12, 2.96]| 0.5279|    |
| age      | 0.99 | [0.05, 1.04]| 0.7266|    |
| medication| 0.36 | [0.11, 1.21]| 0.6977|    |
| 8b       | 0.65 | [0.14, 2.97]| 0.576| 31 |
| gender   | 0.55 | [0.11, 2.77]| 0.472|    |
| age      | 0.99 | [0.04, 1.03]| 0.523|    |
| medication| 0.18 | [0.10, 1.26]| 0.108|    |
| CAa      | 0.81 | [0.96, 0.81]| 0.198| 31 |
| gender   | 0.63 | [0.13, 3.16]| 0.6742|    |
| age      | 0.98 | [0.04, 1.02]| 0.3490|    |
| medication| 0.27 | [0.07, 1.06]| 0.0599|    |
| C4a      | 1.00 | [1.00, 1.00]| 0.789| 31 |
| gender   | 0.54 | [0.10, 2.84]| 0.470|    |
| age      | 0.99 | [0.04, 1.03]| 0.411|    |
| medication| 0.39 | [0.11, 1.37]| 0.148|    |
| C5a      | 0.86 | [0.67, 1.07]| 0.159| 31 |
| gender   | 0.54 | [0.12, 2.52]| 0.435|    |
| age      | 0.99 | [0.06, 1.03]| 0.606|    |
| medication| 0.37 | [0.11, 1.21]| 0.100|    |
| FactorH  | 0.99 | [0.99, 1.00]| 0.0617| 31 |
| gender   | 0.87 | [0.07, 1.86]| 0.2257|    |
| age      | 0.99 | [0.03, 1.02]| 0.2817|    |
| medication| 0.21 | [0.05, 0.52]| 0.0246|    |
| FactorI  | 1.00 | [1.00, 1.00]| 0.1626| 31 |
| gender   | 0.51 | [0.11, 2.41]| 0.3962|    |
| age      | 0.98 | [0.04, 1.03]| 0.4451|    |
| medication| 0.26 | [0.07, 0.94]| 0.0406|    |
| SCC5b    | 1.00 | [0.99, 1.01]| 0.083| 27 |
| gender   | 0.56 | [0.10, 3.41]| 0.848|    |
| age      | 0.97 | [0.02, 1.02]| 0.277|    |
| medication| 0.39 | [0.10, 1.49]| 0.169|    |