

## Supplement 6: Model stability

The robustness of the selected model was evaluated using bootstrap resampling with 500 replicates.

Stability of the selected model was evaluated using i) predictor inclusion frequencies to quantify how likely a predictor was selected, and ii) model selection frequencies to quantify how likely a particular set of predictors was selected.<sup>28</sup>

i) Predictor inclusion frequencies to quantify how likely a predictor was selected.

<b>Predictor</b>	<b>Proportion</b>
Age	0.94
Sex	0.20
Cardiovascular disease	0.94
Tinnitus	0.35
Vertigo	0.83
Precipitating illness	0.15
Time from onset to first steroid treatment	1
Pattern of hearing loss	0.47
Severity of hearing loss	0.99

ii) Model selection frequencies to quantify how likely a particular set of predictors was selected.

<b>N out of 5 selected predictors in model</b>	<b>Proportion</b>
5	0.74
4	0.95
3	0.99
2	1