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Appendix A:

The resulting multivariate model of predicted recovery was as follow:

$$\begin{aligned}\widehat{BI}_{week} = & 0.8 * malegender + (GCS < 15) * \left(-1.9 - \frac{1.6}{\sqrt{weeks}}\right) + POCI \\ & * \left(1.70 - \frac{0.4}{\sqrt{weeks}}\right) + nihtot * \left(-0.3 - \frac{0.2}{\sqrt{weeks}}\right) + age \\ & * \left(-0.2 + \frac{0.1}{\sqrt{weeks}}\right) + PACI * \left(1. + \frac{1.5}{\sqrt{weeks}}\right) + LACI * \left(-0.2 + \frac{2.1}{\sqrt{weeks}}\right) \\ & + TACI * \left(-2.8 + \frac{2.3}{\sqrt{weeks}}\right) + \left(32.18 - \frac{10.74}{\sqrt{weeks}}\right)\end{aligned}$$

The predicted BI was further rounded and values out of range were truncated (i.e: 20 if >20 and 0 if negative) to enable the prediction of BI to be evaluated.