**Supplement 2 Collinearity analysis of related variables included in multivariate logistic regression analysis**

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| Collinear statistics |
| Variables | Tolerance | Variance inflation factor |
| Age (years) | .795 | 1.258 |
| ASA grade | .806 | 1.240 |
| ACCI | .763 | 1.311 |
| BMI (kg/m²) | .875 | 1.143  |
| Preoperative MMSE scores | .837 | 1.195 |
| Serum albumin (g/L) | .524 | 1.908 |
| D-dimer (mg/L) | .751 | 1.331 |
| Total cholesterol (mmol/L) | .820 | 1.220 |
| Pain scores in the first day postoperatively | .297 | 3.367 |
| Pain scores in the second day postoperatively | .181 | 5.522 |
| Pain scores in the third day postoperatively | .253 | 3.960 |
| AFR | .566 | 1.767 |
| Abbreviations: BMI:Body Mass Index  MMSE: Mini-Mental State Examination ASA: American Society of Anaesthesiologists AFR: Albumin to Fibrinogen Ratio ACCI: Age-adjusted Charlson Comorbidity Index  |