**Supplemental Digital Content 6.** Exploratory multivariate analysis in patients according to age, type of BI and GCS

**Performance of the VISAGE score in patients <40years old and ≥40 years old.**

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| Patients <40 years. N=114 | OR [CI95%] | *p* |
| Visual pursuit | 5.35 [1.53-18.70] | 0.0087 |
| Swallowing attempts | 5.44 [1.63-18.19] | 0.0059 |
| Glasgow Coma Score (>10 vs. ≤10) | 2.69 [0.74 ; 9.78] | 0.13 |

Hosmer test : p=0.2828

Area under the ROC curve: c=0.75 [0.69-0.95]

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| Patients ≥40 years. N=253 | OR [CI95%] | *p* |
| Visual pursuit | 2.34 [1.26-4.36] | 0.0071 |
| Swallowing attempts | 2.41 [1.28-4.53] | 0.0064 |
| Glasgow Coma Score (>10 vs. ≤10) | 2.16 [1.16-4.03] | 0.0152 |

Hosmer test : p=0.5101

Area under the ROC curve: c=0.70 [0.63-0.77]

**Performance of the VISAGE score in patients with TBI and SAH.**

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| TBI patients. N=158 | OR [CI95%] | *p* |
| Age (<40 vs ≥40 years) | 3.16 [1.17-8.50] | 0.0231 |
| Visual pursuit | 5.39 [2.08-13.97] | 0.0005 |
| Swallowing attempts | 4.13 [1.59-10.79] | 0.0037 |
| Glasgow Coma Score (>10 vs. ≤10) | 3.41 [1.26-9.22] | 0.0159 |

Hosmer test : p=0.3096

Area under the ROC curve: c=0.82 [0.73-0.91]

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| SAH patients N=107 | OR [CI95%] | *p* |
| Age (<40 vs ≥40 years) | 2.81 [0.56-14.18] | 0.2111 |
| Visual pursuit | 1.3 [0.44-3.83] | 0.6354 |
| Swallowing attempts | 3.91 [1.28-1.91] | 0.0064 |
| Glasgow Coma Score (>10 vs. ≤10) | 1.82 [0.66-5.03] | 0.2512 |

Hosmer test : p=0. 9104

Area under the ROC curve: c=0.68 [0.56-0.81]

**Odds Ratio of age, visual pursuit and swallowing pursuit as predictors of successful extubation in the sub-group of patients with a GCS < 10.**

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|  | OR [CI95%] | P value |
| Age < 40 | 1.894 [0.943-3.803] | 0.0727 |
| Visual pursuit | 2.564 [1.349-4.875] | 0.0041 |
| Swallowing attempts | 2.318 [1.214-4.426] | 0.0108 |