**Supplementary Table 1. The number of animals used for each experiment in the current study.**

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| --- | --- | --- |
| Experiment | Number of animals per group | Total number |
| Survival study (male) | Sedation starting at ROSC   * No sedation (n = 10) * Propofol (n = 10) * Dexmedetomidine (n = 10) | 30 |
| Sedation starting at 60 minutes after ROSC   * No sedation (n = 10) * Propofol (n = 10) * Dexmedetomidine (n = 10) | 30 |
| Survival study (female) | Sedation starting at ROSC   * No sedation (n = 6) * Propofol (n = 6) * Dexmedetomidine (n = 6) | 18 |
| Brain histology (male) | Sedation starting at ROSC   * No sedation (n = 4) * Propofol (n = 4) * Dexmedetomidine (n = 4) | 12 |
| CBF measurement (male) | Sedation starting at ROSC   * No sedation (n = 6) * Propofol (n = 5) * Dexmedetomidine (n = 5) | 16 |
| Sedation starting at 60 minutes after ROSC   * No sedation (n = 5) * Propofol (n = 6) * Dexmedetomidine (n = 6) | 17 |
| EEG recording (male) | * No sedation (n = 7) * Sedation with propofol at 40 mg ∙ kg-1 ∙ h-1 starting at ROSC (n = 6) * Sedation with dexmedetomidine starting at ROSC (n = 6) * Sedation with propofol at 10 mg ∙ kg-1 ∙ h-1 starting at ROSC (n = 6) \* * Sedation with propofol at 40 mg ∙ kg-1 ∙ h-1 starting at 60 minutes after ROSC (n = 6) | 30 |
| EEG recoding (female) | * No sedation (n = 3) \* * Sedation with propofol at 40 mg ∙ kg-1 ∙ h-1 starting at ROSC (n = 2) * Sedation with dexmedetomidine starting at ROSC (n = 1) | 5 |

\* One mouse that was not resuscitated from cardiac arrest was excluded.