**Supplementary Table 1.** Possible risk factors for delirium and Intensive care unit–acquired weakness (ICU-AW).

|  |  |  |
| --- | --- | --- |
|  | ICU-AW | Delirium |
| **Predisposing Factors** | | |
| **Age** | DS1–4 | **SR** 5–9 |
| **Premorbid dementia** |  | **SR** 10–13 |
| Hypertension |  | DS 14,15 |
| Alcoholism |  | DS6,10,14,16 |
| **Prior Coma** |  | **SR** 8,14,17,18 |
| Nicotine Use |  | DS 15,16,19 |
| **Sex** | **SR**20 |  |
| **Admission APACHE II** | **SR** 1–3,21 | **SR** 11,18,22–24 |
| **Emergency Surgery and Trauma** |  | **SR** 17,25 |
| **Risk Factors** | | |
| Prolonged immobilization | DS 4,20,26–27 |  |
| **Blood Transfusion** |  | **SR** 8 |
| Improper use of Benzodiazepines and Opiates |  | DS 7,13,18,23,24,28–31 |
| **NMBAs** | **SR** 1,3,32,33 | DS 29 |
| **Aminoglycosides** | **SR** 4,34–36 |  |
| **Sepsis** | **SR** 1,3,33,36,37 | DS 6,8,38,39 |
| **MOF** | **SR** 20,36,40 | DS 6,8,38 |
| **Vasoactive Agents** | **SR** 4,41 |  |
| Corticosteroids | DS 1,20,42 |  |
| RRT | DS 1,3,36,37 |  |
| Gender | DS 20 |  |
| **Mechanical Ventilation** | **SR** 20 | DS 43,44 |
| **Electrolytes and metabolic disturbance** | **SR** 5,18,45 | DS 5 |
| **Hyperosmolarity** | **SR** 36 |  |
| **Hyperglycemia** | **SR** 20,35,46,47 |  |
| **High lactate** | **SR** 34 |  |
| Sleep deprivation |  | DS 48 |
| **Parenteral nutrition** | **SR** 36 |  |
| **Short Term Outcomes** | | |
| **Prolonged mechanical Ventilation** | DS20,32,49 | DS16,39,50,51 |
| **Prolonged ICU-LOS and H-LOS** | DS26 | DS52,53 |
| **ICU and H Mortality** | DS54,55 | DS39,52,53 |
|  |  |  |
| **Long Term Outcomes** | | |
| **Mortality** | DS32,54,55 | DS56–58 |
| **Long-term physical function impairment** | DS26,42,59–61 | DS62 |
| **Long-term cognitive impairment** | DS26,42,51,61 | DS51,63–66 |

Systematic Review (SR) indicates that the predisposing factors and trigger factors are in agreement with the Prevention and Management of Pain, Agitation/Sedation, Delirium, Immobility, and Sleep Disruption in Adult Patients in the ICU (PADIS) guidelines67 and a recent systematic review for ICU-AW68. Descriptive Study (DS) indicates that the predisposing factors and trigger factors are in agreement with single observation cohort or case-control studies or narrative reviews.

H, Hospital; LOS, Length of stay; MOF, Multi organ failure; NMBAs, Neuromuscular blocking agents; RRT, Renal replacement therapy.

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