### TABLE 1E: Organizational Characteristics of participating centers

<table>
<thead>
<tr>
<th></th>
<th>HOSPITAL 1</th>
<th>HOSPITAL 2</th>
<th>HOSPITAL 3</th>
<th>HOSPITAL 4</th>
<th>HOSPITAL 5</th>
<th>HOSPITAL 6</th>
<th>HOSPITAL 7</th>
<th>HOSPITAL 8</th>
<th>HOSPITAL 9</th>
<th>HOSPITAL 10</th>
<th>HOSPITAL 11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hospital Level</td>
<td>4</td>
<td>5</td>
<td>5</td>
<td>3</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>4</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>University hospital</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Neurosurgery</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Transplants</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Donors</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Number of critical / semi-critical beds</td>
<td>24</td>
<td>18</td>
<td>31</td>
<td>18</td>
<td>17</td>
<td>11</td>
<td>12</td>
<td>12</td>
<td>8</td>
<td>8</td>
<td>18</td>
</tr>
<tr>
<td>Protocol for limiting life support</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Staff physician with &gt; 10 years experience</td>
<td>30.8%</td>
<td>66.7%</td>
<td>54.2%</td>
<td>52.9%</td>
<td>33.3%</td>
<td>87.5%</td>
<td>75%</td>
<td>36.4%</td>
<td>62.5%</td>
<td>75%</td>
<td>61.5%</td>
</tr>
</tbody>
</table>
Table 2E. Comparison of patients with limitations on life support who survived versus those who died.

<table>
<thead>
<tr>
<th></th>
<th>Non-survivors n= 247</th>
<th>Survivors n= 79</th>
<th>p value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Age, years, median (p25-p75)</strong></td>
<td>74 (64-79)</td>
<td>77 (67-82)</td>
<td>0.083</td>
</tr>
<tr>
<td>Men, n (%)</td>
<td>150 (60.7)</td>
<td>57 (72.2)</td>
<td>0.072</td>
</tr>
<tr>
<td>Modified Rankin scale, median (p25-p75)</td>
<td>2 (0-3)</td>
<td>2 (2-3)</td>
<td>0.125</td>
</tr>
<tr>
<td>ICU length of stay, days, median (p25-p75)</td>
<td>4 (1-11)</td>
<td>6 (3-12)</td>
<td>0.065</td>
</tr>
</tbody>
</table>

**Comorbidities**,  
- Smoking, n (%)  
  - 46 (18.6)        
  - 8 (10.1)        
  - 0.07  
- Alcohol, n (%)  
  - 31 (12.6)        
  - 5 (6.3)         
  - 0.12  
- Hypertension, n (%)  
  - 147 (59.5)       
  - 49 (62)         
  - 0.69  
- Chronic obstructive pulmonary disease, n (%)  
  - 76 (30.8)        
  - 37 (46.8)       
  - 0.009  
- Diabetes mellitus, n (%)  
  - 69 (27.9)        
  - 30 (38.0)       
  - 0.09  
- Chronic kidney disease, n (%)  
  - 36 (14.6)        
  - 13 (16.5)       
  - 0.68  
- Liver disease, n (%)  
  - 32 (13.0)        
  - 8 (10.1)        
  - 0.505  
- Cardiovascular disease, n (%)  
  - 48 (19.4)        
  - 18 (22.8)       
  - 0.52  
- Active cancer, n (%)  
  - 18 (7.3)         
  - 4 (5.1)         
  - 0.49  
- Cancer in complete remission, n (%)  
  - 46 (18.6)        
  - 8 (10.1)        
  - 0.07  

**Type of Disease**,  
- Acute disease, n (%)  
  - 189 (76.5)       
  - 53 (67.1)       
  - 0.095  
- Acute-on-chronic disease, n (%)  
  - 58 (23.5)        
  - 26 (32.9)       
  - 0.09  

**Patient type**,  
- Medical, n (%)  
  - 176 (71.3)       
  - 58 (73.4)       
  - 0.71  
- Trauma, n (%)  
  - 13 (5.3)         
  - 2 (2.5)         
  - 0.31  
- Emergency surgery, n (%)  
  - 42 (17.0)        
  - 12 (15.2)       
  - 0.71  
- Scheduled surgery, n (%)  
  - 16 (6.5)         
  - 7 (8.9)         
  - 0.47  

**Diagnostic category**,  
- Cardiovascular, n (%)  
  - 30 (12.1)        
  - 17 (21.5)       
  - 0.39  
- Pulmonary, n (%)  
  - 33 (13.4)        
  - 14 (17.7)       
  - 0.34  
- Infectious, n (%)  
  - 54 (21.9)        
  - 9 (11.4)        
  - 0.04  
- Metabolic, n (%)  
  - 3 (1.2)          
  - 2 (2.5)         
  - 0.41  
- Gastrointestinal, n (%)  
  - 28 (11.3)        
  - 13 (16.5)       
  - 0.23  
- Neurological, n (%)  
  - 53 (21.5)        
  - 17 (21.5)       
  - 0.99  
- Cardiorespiratory arrest, n (%)  
  - 38 (15.4)        
  - 2 (2.5)         
  - 0.002  

**Life support measures limited**,  
- Vasoactive drugs, n (%)  
  - 128 (51.8)       
  - 18 (22.8)       
  - 0.001  
- Invasive Mechanical ventilation, n (%)  
  - 206 (83.4)       
  - 44 (55.7)       
  - 0.01  
- Noninvasive mechanical ventilation, n (%)  
  - 69 (27.9)        
  - 21 (26.6)       
  - 0.04  
- Continuous renal replacement techniques, n (%)  
  - 28 (11.3)        
  - 3 (3.8)         
  - 0.032  

**Reasons for Life support treatment Limitation**,  
- Age n (%)  
  - 55 (22.3)        
  - 25 (31.6)       
  - 0.14  
- Degree of functional disability, n (%)  
  - 44 (17.8)        
  - 22 (27.8)       
  - 0.08  
- Comorbidities, n (%)  
  - 104 (42.1)       
  - 48 (60.8)       
  - 0.010  
- Reason for admission, n (%)  
  - 147 (59.5)       
  - 36 (45.6)       
  - 0.021  
- Therapeutic futility, n (%)  
  - 175 (70.9)       
  - 27 (34.2)       
  - 0.001  
- Multiorgan failure, n (%)  
  - 87 (35.2)        
  - 3 (3.8)         
  - 0.001
<table>
<thead>
<tr>
<th>Others, n (%)</th>
<th>Withholding</th>
<th>Withdrawal</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of life support treatment limitation</strong></td>
<td>116 (47.0)</td>
<td>134 (53.0)</td>
</tr>
<tr>
<td>Withholding</td>
<td>75 (94.9%)</td>
<td>0</td>
</tr>
<tr>
<td>Withd.</td>
<td>0.001</td>
<td></td>
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</tbody>
</table>