# Multi-principled Critical Care Resource Allocation Score (MCCRAS)

**Directions:** Using the Principle and Rationale criteria, enter a score of 0-5 in each of the three 'Row Score' cells.

<table>
<thead>
<tr>
<th>Principle</th>
<th>Rationale</th>
<th>Potential Score</th>
<th>Row Score</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Save the most lives</strong></td>
<td>Best prognosis for short term survival mSOFA Score</td>
<td>mSOFA ≤ 4</td>
<td>mSOFA 5-7</td>
</tr>
<tr>
<td><strong>Opportunity to live through phases of life</strong></td>
<td>Priority to those who have not lived through life's stages</td>
<td>Age 0-12*</td>
<td>Age 13-20</td>
</tr>
<tr>
<td><strong>Maximizing most life-years</strong></td>
<td>Best prognosis for long-term survival Comorbidities</td>
<td>No comorbid conditions</td>
<td>Likely limited impact on long-term survival</td>
</tr>
</tbody>
</table>

* Age range for Potential Score 0 includes all patients age 12 or less who may be accommodated by the available equipment and supplies.

Patients needing specialized pediatric equipment in limited supply will be ranked in a separate group with consideration for age scoring in reverse order. For example, all other things being equal, a 10 year old will receive resources before a 2 year old.

Patients who cannot be accommodated by a particular piece of equipment because of size or age should be assigned to the supportive care group.

### Comorbidities that may impact long term survival include:

1. Known severe dementia medically treated and requiring assistance with activities of daily living
2. Advanced untreatable neuromuscular disease (such as ALS, end-stage MS, or SMA) requiring assistance with activities of daily living or requiring chronic ventilatory support
3. Incurable metastatic malignant disease
4. Individuals whose weight exceeds 3 times their ideal body weight (BMI > 60 kg/m²)
5. Second and third trimester pregnancy
6. New York Heart Association (NYHA) Functional Classification System Class III or IV
7. End stage liver disease with a PUGH SCORE >7
8. End stage pulmonary disease meeting the following criteria:
   a. COPD with Forced Expiratory Volume in one second (FEV1) < 25% predicted baseline, PaO2 <55 mm Hg, or severe secondary pulmonary hypertension
   b. Cystic fibrosis with post-bronchodilator FEV1 <30% or baseline PaO2 <55 mm Hg
   c. Pulmonary fibrosis with VC or TLC < 60% predicted, baseline PaO2 <55 mm Hg, or severe secondary pulmonary hypertension
   d. Primary pulmonary hypertension with NYHA class III or IV heart failure (g), right atrial pressure >10 mm Hg, or mean pulmonary arterial pressure >50 mm Hg
9. End stage renal disease with a glomerular filtration rate of less than 60 mL/min/1.73m² (CKD3 [Moderate]) for 3 months.

Adapted from White, et al., 2009

www.mcw.edu/emergencymed/MIMAP.htm

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