

Supplementary Table 1. Baseline characteristics of trials included in analysis

| Study | Country | Trial name | Year | Intervention | Sample size (I/C) |
|------------------------|--------------------------------|------------|------|--|-------------------|
| Zabet et al. [1] | Iran | - | 2016 | IV vitamin C (25 mg/kg Q6h for 72 hr) | 14/14 |
| Fowler III et al. [2] | United States | CITRIS ALI | 2019 | IV vitamin C (50 mg/kg Q6h for 96 hr) | 84/83 |
| Iglesias et al. [3] | United States | ORANGES | 2020 | IV vitamin C (1,500 mg Q6h), thiamine (200 mg Q12h), hydrocortisone (50 mg Q6h) for 96 hr | 68/69 |
| Lv et al. [4] | China | - | 2020 | IV vitamin C (3 g 100 ml/time, 2 times/day) | 61/56 |
| Chang et al. [5] | China | HYVCTSSS | 2020 | IV vitamin C (1,500 mg Q6h), thiamine (200 mg Q12h), hydrocortisone (50 mg Q6h) for 96 hr | 40/40 |
| Hwang et al. [6] | South Korea | ATESS | 2020 | IV vitamin C (50 mg/kg Q12h), thiamine (200 mg Q12h) for 48 hr | 58/58 |
| Moskowitz et al. [7] | United States | ACTS | 2020 | IV vitamin C (1,500 mg Q6h), thiamine (100 mg Q6h), hydrocortisone (50 mg Q6 h) for 96 hr | 103/102 |
| Wani et al. [8] | India | - | 2020 | IV vitamin C (1,500 mg Q6h), thiamine (200 mg Q12h), hydrocortisone (50 mg Q6 h) for 96 hr | 50/50 |
| Fujii et al. [9] | Australia, New Zealand, Brazil | VITAMINS | 2020 | IV vitamin C (1,500 mg Q6h), thiamine (200 mg Q12h), hydrocortisone (50 mg Q6hr) | 109/107 |
| Mohamed et al. [10] | India | VICTOR | 2020 | IV vitamin C (1,500 mg Q6h), thiamine (200 mg Q12h), hydrocortisone (50 mg Q6h) for 96 hr | 45/45 |
| Sevransky et al. [11] | United States | VICTAS | 2021 | IV vitamin C (1,500 mg Q6h), thiamine (100 mg Q12h), hydrocortisone (50 mg Q6h) for 96 hr | 252/249 |
| Rosengrave et al. [12] | New Zealand | - | 2022 | IV vitamin C (25 mg/kg Q6h for 96 hr) | 20/20 |
| Wacker et al. [13] | United States | - | 2022 | IV vitamin C (250 mg/hr for 72 hr) | 60/64 |
| Lamontagne et al. [14] | Canada, France, New Zealand | LOVIT | 2022 | IV vitamin C (50 mg/kg Q6h for 96 hr) | 435/437 |

I: intervention; C: control; SOFA: Sequential Organ Failure Assessment; IV: intravenous; Q6h: every 6 hours; Q12h: every 12 hours.

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