Supplementary Table 5. Summary of variables with non-significant associations with outcomes of interest.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **No. of studiesa** | **No. of participants with outcomeb**  | **No. of participants without outcomeb** | **Pooled estimatec (95% CI)** | **P value for heterogeneity** | **I2 value****%** |
| **Variables assessed for association with outcome of sepsis** |
| Age (months) | 6 | 3,071 | 3,999 | -4.6 (-9.4, 0.3) | < 0.0001 | 93.1 |
| Gender (male) | 4 | 924/1,835 | 1,961/3,691 | 1.0 (0.8, 2.5) | 0.13 | 46.6 |
| Malnutrition | 2 | 134/582 | 141/756 | 1.1 (1.0, 1.7) | 0.93 | 0.0 |
| CRP | 2 | 214 | 686 | 32.6 (-18.8, 84.0) | < 0.0001 | 93.2 |
| Hemoglobin (g/dL) | 3 | 1,267 | 283 | 0.2 (-0.8, 1.1) | < 0.0001 | 87.9 |
| Procalcitonin (ng/ml) | 2 | 154 | 656 | 4.6 (-6.2, 15.4) | < 0.0001 | 98.6 |
| PRISM | 2 | 1,695 | 3612 | 6.0 (4.1, 8.0) | < 0.0001 | 93.2 |
| **Variables assessed for association with outcome of severe sepsis** |
| Age (months) | 3 | 1543 | 957 | 1.6 (-17.2, 20.3) | < 0.0001 | 98.6 |
| Gender (male) | 3 | 193/319 | 1,363/2,181 | 1.0 (0.7, 1.3) | 0.22 | 33.1 |
| CRP (mg/dL) | 2 | 269 | 1,827 | 9.8 (-58.7, 78.3) | 0.13 | 56.8 |
| **Variables assessed for association with outcome of septic shock** |
| Gender (male) | 2 | 186/328 | 310/588 | 1.5 (0.8, 2.8) | 0.49 | 0.0 |
| **Variables assessed for association with outcome of mortality** |
| *Demographic variables* |
| Age (months) | 34 | 1,880 | 11,876 | -0.55 (-7.5, 6.4) | < 0.0001 | 88.2 |
| Gender (male) | 49 | 3,260/5888 | 33,998/60,109 | 1.0 (0.9, 1.1) | < 0.0001 | 65.6 |
| Malnutritiond | 2 | - | - | 0.7 (0.5, 1.1) | 0.055 | 56.8 |
| Obesity | 3 | 69/649 | 726/6,005 | 1.1 (0.8, 1.4) | 0.84 | 0.0 |
| *Clinical variables* |
| Temperature (°Celcius) | 5 | 307 | 1,941 | -0.5 (-1.6, 0.7) | < 0.0001 | 85.8 |
| CVP (mmHg) | 3 | 131 | 257 | 0.5 (-0.6, 1.6) | 0.04 | 68.9 |
| Heart rate (bpm) | 6 | 339 | 2,009 | 0.5 (-3.5, 4.36) | 0.48 | 0.0 |
| LVEF (%) | 3 | 56 | 94 | 1.1 (-0,5, 2.6) | 0.72 | 0.0 |
| MBP (mmHg) | 2 | 64 | 98 | -3.2 (-7.4, 1.1) | 0.22 | 32.9 |
| SBP (mmHg) | 5 | 345 | 2,032 | -10.1 (-25.3, 5.0) | < 0.0001 | 97.1 |
| Oxygen saturation (%) | 2 | 70 | 1,378 | -3.3 (-7.6, 1.1) | 0.025 | 80.1 |
| *Laboratory variables* |  |  |  |  |  |  |
| CRP (mg/dL) | 16 | 785 | 3,874 | 15.2 (13.7, 44.0)  | < 0.0001 | 98.9 |
| Glucose (mg/dL) | 5 | 239 | 744 | -0.3 (-0.5, 1.1) | 0.20 | 33.9 |
| BNP (pg/ml) | 3 | 238 | 630 | 6860 (-960, 14680) | < 0.0001 | 89.4 |
| aPTT (s) | 5 | 273 | 2,100 | 19.0 (-6.4, 44.4) | < 0.0001 | 99.4 |
| PT (s) | 6 | 378 | 1,628 | -1.4 (-4.1, 1.4) | < 0.0001 | 90.8 |
| INR | 2 | 184 | 1,708 | 0.6 (-0.5, 1.6) | < 0.0001 | 99.8 |
| Hemoglobin (g/dL) | 6 | 195 | 753 | -0.6 (-1.1, 0.04) | 0.005 | 70.6 |
| Bilirubin (mg/dL) | 6 | 387 | 1,770 | 1.0 (-1.6, 3.5) | 0.003 | 72.6 |
| WBC count (x 109 /L) | 15 | 821 | 3,450 | -1.5 (-4.4, 1.5) | < 0.0001 | 98.0 |

aThe study by Thakkar et al, 2019 reported on two non-overlapping cohorts of medical and surgical patients which were therefore analyzed separately and counted as two studies.

bNumbers reported are totals for those with and without the listed outcome for each parameter for continuous variables. For categorical variables, the numbers shown are the number with the parameter over the total with or without the outcome of interest.

cPooled estimate is for the odds ratio for categorical variables and the mean difference for continuous variables.

dTotal numbers not available as two studies did not provide the raw numbers.

eAbbreviations: BNP = brain natriuretic peptide; CRP = C reactive protein; CVP = central venous pressure; INR = international normalized ratio; LVEF = left ventricular ejection fraction; MBP = mean blood pressure; aPTT = activated partial thromboplastin time; PT = prothrombin time; PRISM = Pediatric Risk of Mortality; SBP = systolic blood pressure; WBC = white blood cell.