**Supplemental Digital Content 2: Reliability of video-based application of PALS and ESM checklist tools**

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| **Tool** | **Item** | **Intraclass**  **Correlation**  **(95% CI)** | **Percent Agreement** |
| **PALS-based assessment checklist** | Airway patency assessed | 0.47 (0.23, 0.65) | 92.6 |
| Breathing assessed via auscultation | \* | 100.0 |
| Oxygen saturation assessed | -0.04 (-0.30, 0.23) | 90.7 |
| Pulses assessed | \* | 98.1 |
| Monitors applied and vitals assessed | \* | 96.3 |
| Distal Perfusion of foot and/or hand assessed | 0.63 (0.44, 0.77) | 92.6 |
| Recognition of tachycardia for age | 0.81 (0.70, 0.89) | 85.2 |
| Recognition of hypotension for age | 0.53 (0.30, 0.69) | 72.2 |
| IV/IO access obtained | \* | 98.1 |
| GCS or other assessment of mental status performed | 0.38 (0.13, 0.59) | 94.4 |
| Pupils assessed | 0.93 (0.88, 0.96) | 96.3 |
| Reassessment of vital signs | \* | 98.1 |
| Reassessment of physical exam for Airway, Breathing and Circulation | 0.66 (0.48, 0.79) | 98.1 |
| Temperature obtained | 0.96 (0.93, 0.98) | 98.1 |
| Serum glucose obtained | 0.57 (0.35, 0.72) | 92.5 |
| **ESM-based management checklist** | Oxygen therapy | 1.00 | 100.0 |
| 1st bolus: 20 mL/kg NS or LR | 0.66 (0.48, 0.79) | 98.1 |
| 2nd bolus: 20 mL/kg NS or LR | 0.88 (0.80, 0.93) | 94.4 |
| Antibiotic therapy | 0.93 (0.88, 0.96) | 96.3 |
| Initiation of pressor support | 0.02 (-0.25, 0.28) | 55.6 |
| Correction of electrolyte disturbance | 0.43 (0.19, 0.62) | 72.2 |

PALS – pediatric advanced life support

ESM – early sepsis management

IV - intravenous

IO - intraosseous

GCS – Glasgow coma scale

NS – normal saline

LR – lactated ringers

\* – No measure of association is computed as at least one variable in each two-way table was a constant