Supplementary Table 1. Unmatched univariate analysis for mechanical cardiopulmonary resuscitation of all arrest patients.

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| **UNMATCHED** | AUTOPULSE  N=671 | LUCAS  N=149 | p-value\* |
| Age, year | 69.0 (57.0-78.0) | 70.0 (56.0-78.0) | 0.990 |
| Male | 445 (66.3%) | 101 (67.8%) | 0.805 |
| Witnessed | 422 (62.9%) | 95 (63.8%) | 0.917 |
| Place |  |  | 0.252 |
| Non-public | 548 (81.7%) | 115(77.2%) |  |
| Public | 123 (18.3%) | 34 (22.8%) |  |
| Bystander CPR | 191 (28.5%) | 53 (35.6%) | 0.106 |
| Arrest cause |  |  | 0.267 |
| Cardiac | 614 (91.5%) | 141 (94.6%) |  |
| Non-cardiac | 57 (8.5%) | 8 (5.4%) |  |
| Arrest rhythm |  |  | 0.475 |
| Non-shockable | 568 (84.6%) | 122 (81.9%) |  |
| Shockable | 103 (15.4%) | 27 (18.1%) |  |
| PCI | 10 (1.5%) | 8 (5.4%) | 0.009 |
| TTM | 47 (7.0%) | 14 (9.4%) | 0.404 |
| Pacemaker | 0 (0.0%) | 1 (0.7%) | 0.409 |
| ECMO | 19 (2.8%) | 11 (7.4%) | 0.015 |
| Sustained ROSC | 203 (30.3%) | 41 (27.5%) | 0.574 |
| Survival to discharge | 33 (4.9%) | 4 (2.7%) | 0.332 |

Categorical and continuous variables are represented by number (%) and median (interquartile range), respectively.

\*Calculated by Mann-Whitney test for continuous variables, and chi-square or Fisher’s exact test for categorical variables.

CPR, cardiopulmonary resuscitation; PCI, percutaneous coronary intervention; TTM, target temperature management; ECMO, extracorporeal cardiopulmonary support; ROSC, return of spontaneous circulation.