Supplemental Table 3 : Area under the Receiver-operating Characteristic Curve Sensitivity and Specificity of HPI andΔ haemodynamic variables**.** Data are presented as point estimates (95% CI)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Time to event** | **AUC** | **Sensitivity** | **Specificity** | **PPV (%)** | **NPV (%)** | **Cutoff** |
| Δ MAP | 5 min | 0.549 [0.548-0.550] | 0.535 [0.535-0.536] | 0.535 [0.535-0.536] | 0.352 [0.351-0.353] | 0.709 [0.708-0.711] | 0.65 mmHg |
| 10 min | 0.515 [0.515-0.516] | 0.514 [0.513-0.514] | 0.514 [0.513-0.514] | 0.262 [0.261-0.263] | 0.758 [0.757-0.760] | 0.48 mmHg |
| 5 min | 0.516 [0.515-0.516] | 0.510 [0.509-0.511] | 0.510 [0.509-0.511] | 0.210 [0.209-0.211] | 0.803 [0.802-0.804] | 0.44 mmHg |
| Δ CO |
| 5 min | 0.516 [0.515-0.516] | 0.517 [0.517-0.518] | 0.517 [0.517-0.518] | 0.335 [0.334-0.337] | 0.695 [0.694-0.696] | 0.01 L.min-1 |
| 10 min | 0.514 [0.513-0.514] | 0.510 [0.509-0.510] | 0.510 [0.509-0.510] | 0.260 [0.259-0.261] | 0.754 [0.753-0.756] | 0.00 L.min-1 |
| 15 min | 0.523 [0.522-0.523] | 0.517 [0.517-0.518] | 0.517 [0.517-0.518] | 0.216 [0.215-0.217] | 0.807 [0.806-0.808] | -0.01 L.min-1 |
| ΔSV |
| 5 min | 0.516 [0.515-0.516] | 0.516 [0.516-0.517] | 0.516 [0.516-0.517] | 0.336 [0.335-0.337] | 0.692 [0.691-0.694] | 0.17 mL |
| 10 min | 0.513 [0.513-0.513] | 0.509 [0.509-0.510] | 0.509 [0.509-0.509] | 0.259 [0.258-0.260] | 0.755 [0.753-0.756] | 0.05 mL |
| 15 min | 0.519 [0.518-0.520] | 0.515 [0.514-0.515] | 0.515 [0.514-0.515] | 0.214 [0.213-0.215] | 0.805 [0.804-0.806] | -0.04 mL |
| ΔPP |
| 5 min | 0.539 [0.538-0.540] | 0.527 [0.526-0.527] | 0.527 [0.526-0.528] | 0.343 [0.341-0.344] | 0.704 [0.702-0.705] | 0.55 mmHg |
| 10 min | 0.514 [0.514-0.515] | 0.512 [0.512-0.513] | 0.512 [0.512-0.513] | 0.262 [0.260-0.263] | 0.757 [0.756-0.758] | 0.40 mmHg |
| 15 min | 0.516 [0.516-0.517] | 0.507 [0.507-0.508] | 0.507 [0.507-0.508] | 0.209 [0.208-0.210] | 0.800 [0.799-0.801] | 0.30 mmHg |
| ΔHR |
| 5 min | 0.512 [0.512-0.513] | 0.506 [0.505-0.507] | 0.508 [0.508-0.509] | 0.326 [0.325-0.328] | 0.686 [0.685-0.688] | 0.01 bpm |
| 10 min | 0.511 [0.511-0.511] | 0.507 [0.506-0.507] | 0.506 [0.506-0.507] | 0.258 [0.257-0.259] | 0.752 [0.751-0.753] | 0.00 bpm |
| 15 min | 0.514 [0.514-0.515] | 0.508 [0.507-0.509] | 0.508 [0.507-0.508] | 0.209 [0.208-0.210] | 0.801 [0.800-0.802] | 0.01 bpm |
| ΔSVV |
| 5 min | 0.510 [0.509-0.510] | 0.508 [0.508-0.509] | 0.508 [0.508-0.509] | 0.329 [0.328-0.330] | 0.686 [0.684-0.687] | -0.11% |
| 10 min | 0.518 [0.517-0.518] | 0.509 [0.508-0.510] | 0.509 [0.508-0.510] | 0.260 [0.258-0.261] | 0.754 [0.753-0.755] | -0.10% |
| 15 min | 0.525 [0.524-0.525] | 0.520 [0.520-0.521] | 0.520 [0.520-0.521] | 0.218 [0.217-0.219] | 0.808 [0.807-0.809] | -0.02% |
| ΔPPV |
| 5 min | 0.511 [0.511-0.511] | 0.512 [0.511-0.512] | 0.512 [0.511-0.512] | 0.329 [0.328-0.330] | 0.691 [0.690-0.692] | -0.13% |
| 10 min | 0.517 [0.517-0.518] | 0.510 [0.510-0.510] | 0.510 [0.510-0.511] | 0.261 [0.260-0.262] | 0.754 [0.753-0.756] | -0.02% |
| 15 min | 0.516 [0.515-0.516] | 0.509 [0.508-0.509] | 0.509 [0.508-0.509] | 0.210 [0.209-0.211] | 0.801 [0.800-0.802] | -0.04% |
| ΔEadyn |
| 5 min | 0.510 [0.510-0.511] | 0.507 [0.507-0.507] | 0.507 [0.507-0.507] | 0.326 [0.325-0.328] | 0.686 [0.685-0.687] | 0.00 |
| 10 min | 0.521 [0.521-0.522] | 0.517 [0.517-0.518] | 0.517 [0.517-0.518] | 0.265 [0.264-0.266] | 0.761 [0.759-0.762] | 0.01 |
| 15 min | 0.518 [0.518-0.519] | 0.515 [0.514-0.515] | 0.515 [0.514-0.515] | 0.215 [0.214-0.216] | 0.804 [0.803-0.806] | -0.01 |
| ΔdP/dT |
| 5 min | 0.533 [0.533-0.534] | 0.527 [0.527-0.528] | 0.527 [0.527-0.528] | 0.344 [0.342-0.345] | 0.703 [0.702-0.705] | 8.95 mmHg.s-1 |
| 10 min | 0.515 [0.514-0.515] | 0.511 [0.511-0.512] | 0.511 [0.511-0.512] | 0.261 [0.260-0.263] | 0.755 [0.754-0.757] | 6.48 mmHg.s-1 |
| 15 min | 0.521 [0.521-0.522] | 0.509 [0.508-0.509] | 0.509 [0.508-0.509] | 0.210 [0.209-0.211] | 0.802 [0.801-0.803] | 5.01 mmHg.s-1 |
| ΔSVR |
| 5 min | 0.691 [0.690-0.692] | 0.649 [0.649-0.650] | 0.649 [0.649-0.65] | 0.592 [0.590-0.593] | 0.701 [0.700-0.703] | 29.61 dyn.s/cm5 |
| 10 min | 0.533 [0.532-0.533] | 0.528 [0.527-0.528] | 0.528 [0.527-0.528] | 0.343 [0.342-0.344] | 0.705 [0.704-0.707] | 6.28 dyn.s/cm5 |
| 15 min | 0.519 [0.518-0.519] | 0.516 [0.515-0.516] | 0.516 [0.515-0.516] | 0.264 [0.263-0.266] | 0.759 [0.758-0.761] | 4.41 dyn.s/cm5 |