**Supplemental Digital Content 12** - Comparative performance of best-performing prediction models on temporal holdout test set, individual waveform data

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| --- | --- | --- | --- | --- | --- |
| **Prediction Model** | **AUC (95% CI)** | **Positive Predictive Value (95% CI)** | **F1 Score**  **(95% CI)** | **Sensitivity (95% CI)** | **Specificity**  **(95% CI)** |
| All waveforms only | 0.704  (0.701-0.707) | 0.327  (0.321-0.333) | 0.424  (0.421-0.427) | 0.624  (0.609-0.64) | 0.689  (0.675-0.704) |
| Arterial line  waveform only | 0.692  (0.689-0.694) | 0.326  (0.321-0.331) | 0.428  (0.425-0.431) | 0.641  (0.626-0.655) | 0.681  (0.667-0.695) |
| Pulse plethysmography  waveform only | 0.681  (0.678-0.683) | 0.319  (0.314-0.324) | 0.416  (0.414-0.419) | 0.615  (0.602-0.628) | 0.685  (0.672-0.698) |
| ECG  waveform only | 0.637  (0.633-0.641) | 0.294  (0.288-0.300) | 0.386  (0.383-0.390) | 0.592  (0.576-0.609) | 0.651  (0.632-0.671) |
| EHR features only | 0.641  (0.637-0.646) | 0.322  (0.313-0.332) | 0.392  (0.387-0.396) | 0.530  (0.515-0.546) | 0.720  (0.703-0.738) |
| All EHR and waveform features | 0.709  (0.705-0.712) | 0.339  (0.331-0.346) | 0.434  (0.430-0.438) | 0.631  (0.614-0.647) | 0.698  (0.682-0.714) |