

Supplemental Materials - Figures

Control Subjects 21 - 30

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This document contains figures for the model-based analysis described. Figures 1 - 36 display data and model outputs for each data set with the following indicators: (a) electrocardiogram (ECG) trace, (b) measured intrathoracic (ITP) trace, (c) pulse pressure trace with systolic blood pressure (BP) in dark blue, (d) heart rate (HR) calculated from the R-R intervals in the ECG trace with the maximum HR in phase III and minimum HR in phase IV indicated with red dots, (e) ECG-derived respiratory signal, (f) combined thoracic pressure (P_{th}) curve, (g) systolic BP with the line of regression through the increasing portion of the systolic BP curve in late phase II whose slope is α , (h) HR trace overlaid with the optimized model output H , (i) predicted aortic and carotid baroreceptor strains, (j) predicted baroreflex-mediated parasympathetic ($T_{p,b}$) and sympathetic (T_s) outflows, and (k) respiratory-mediated parasympathetic ($T_{p,r}$) outflow. The patients were not part of the study which measured ITP, so a FE of 40 mmHg was assumed in these cases. The ITP plots for the patients in panel (b) are left blank.

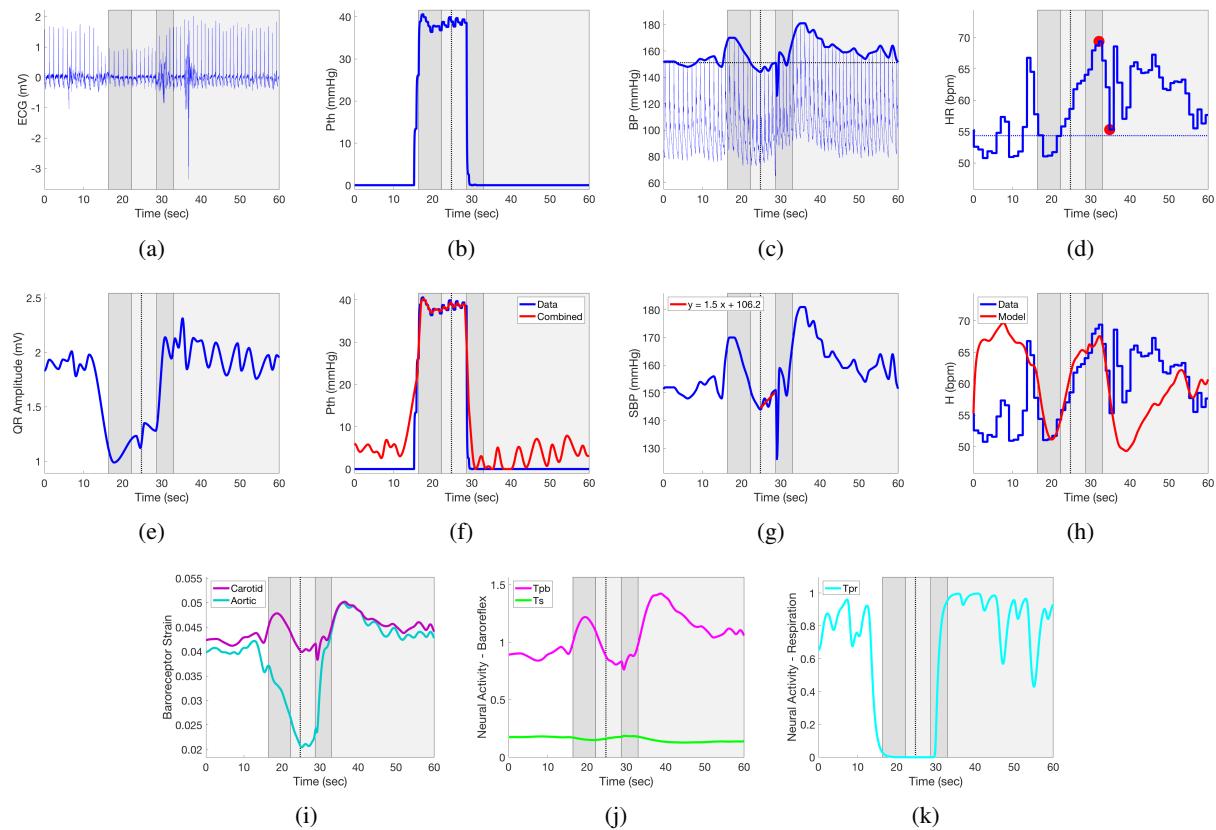


Figure 1: Control Subject 21 VM 4.

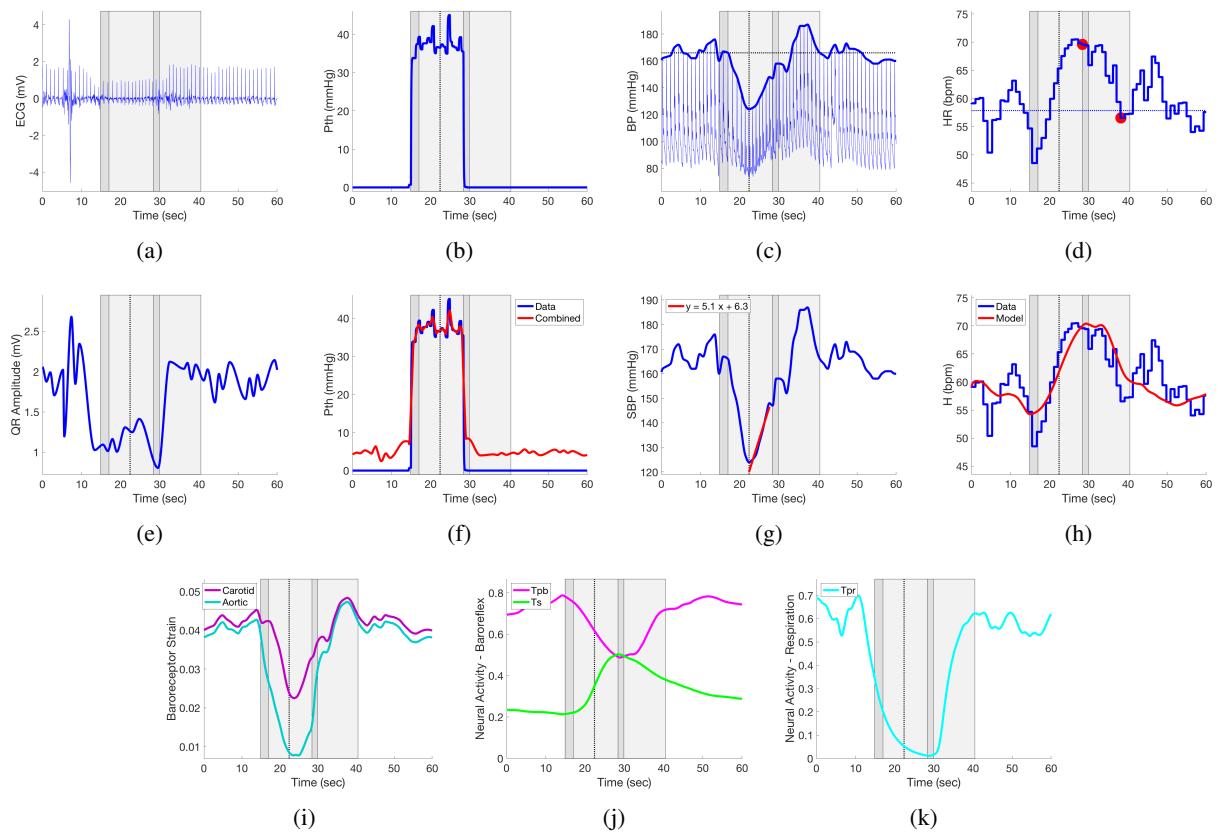


Figure 2: Control Subject 21 VM 6.

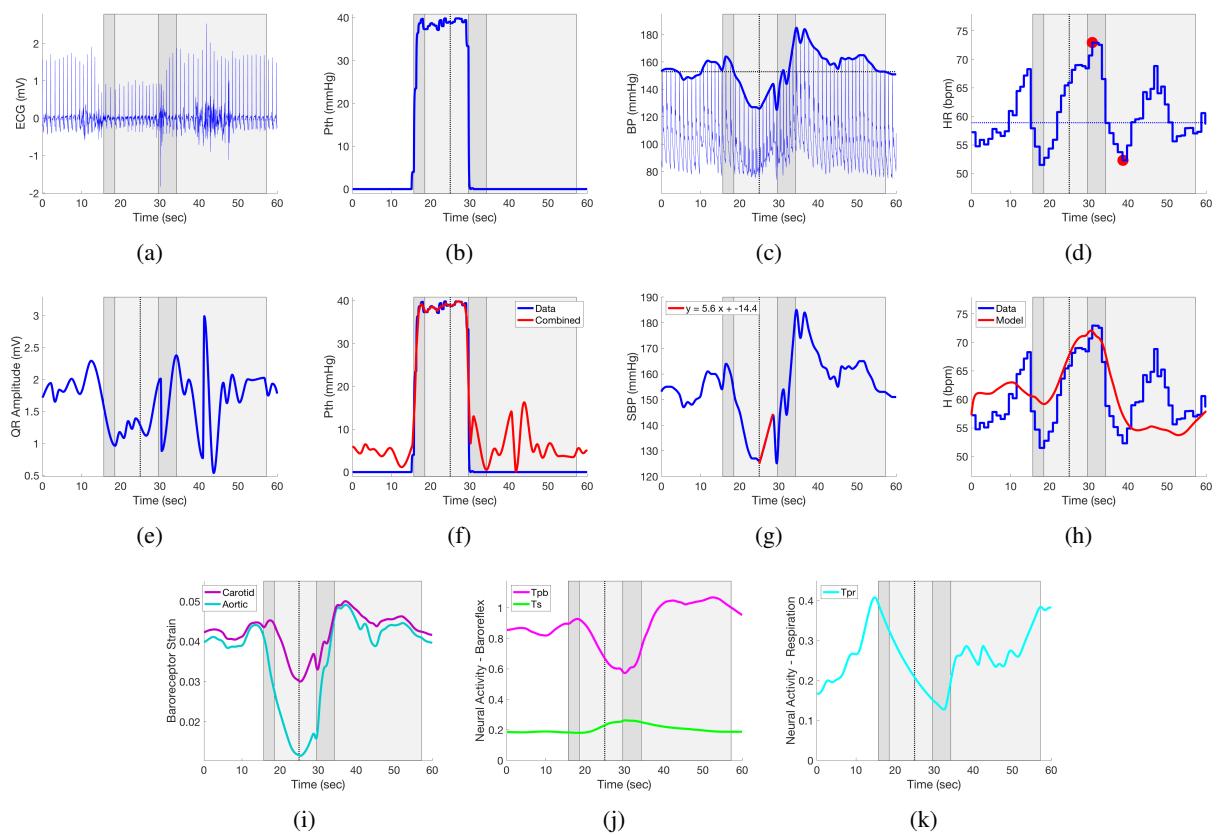


Figure 3: Control Subject 21 VM 8.

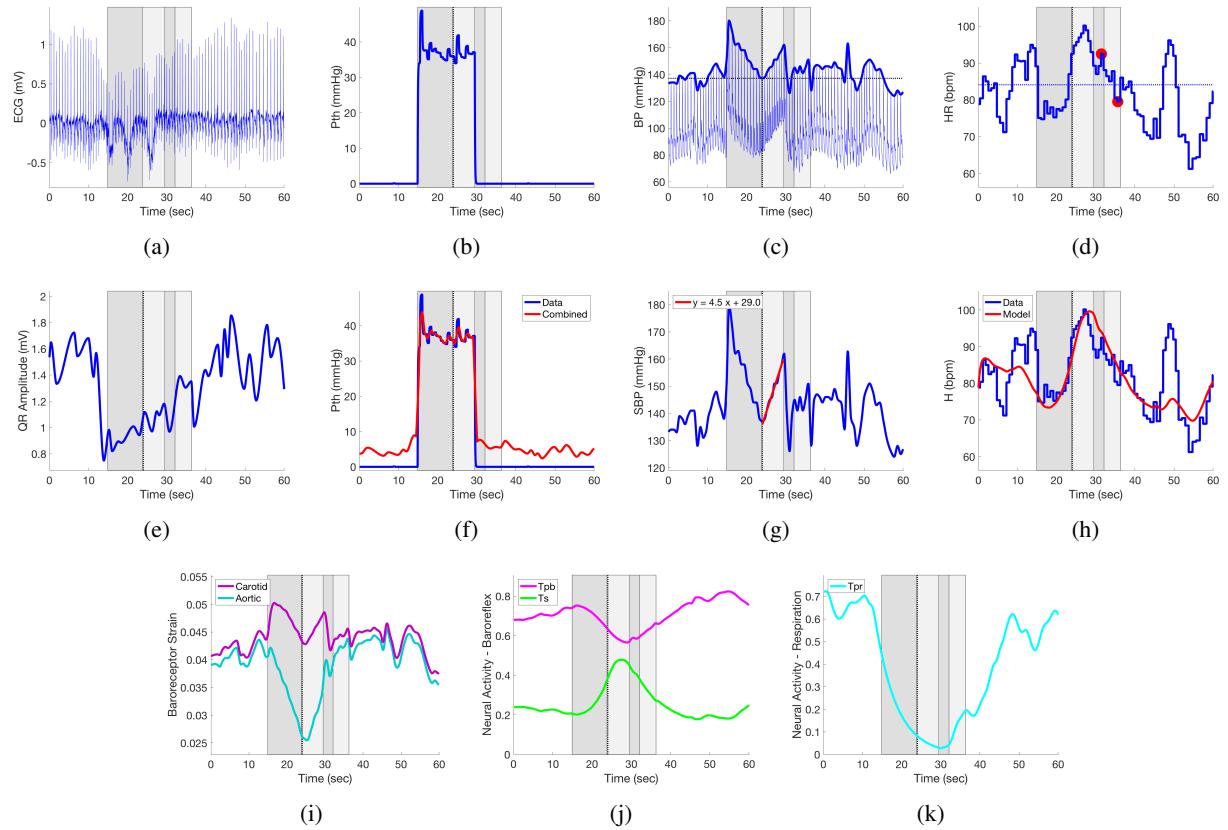


Figure 4: Control Subject 22 VM 4.

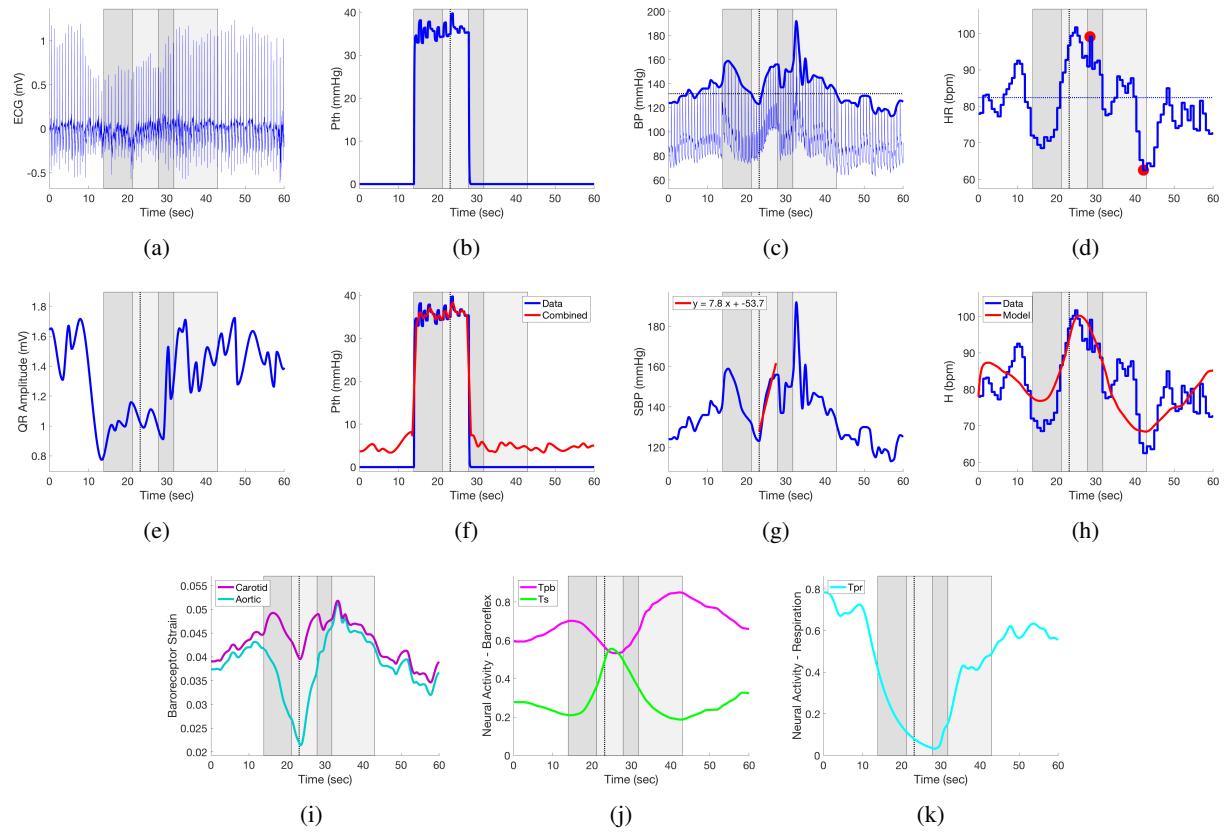


Figure 5: Control Subject 22 VM 5.

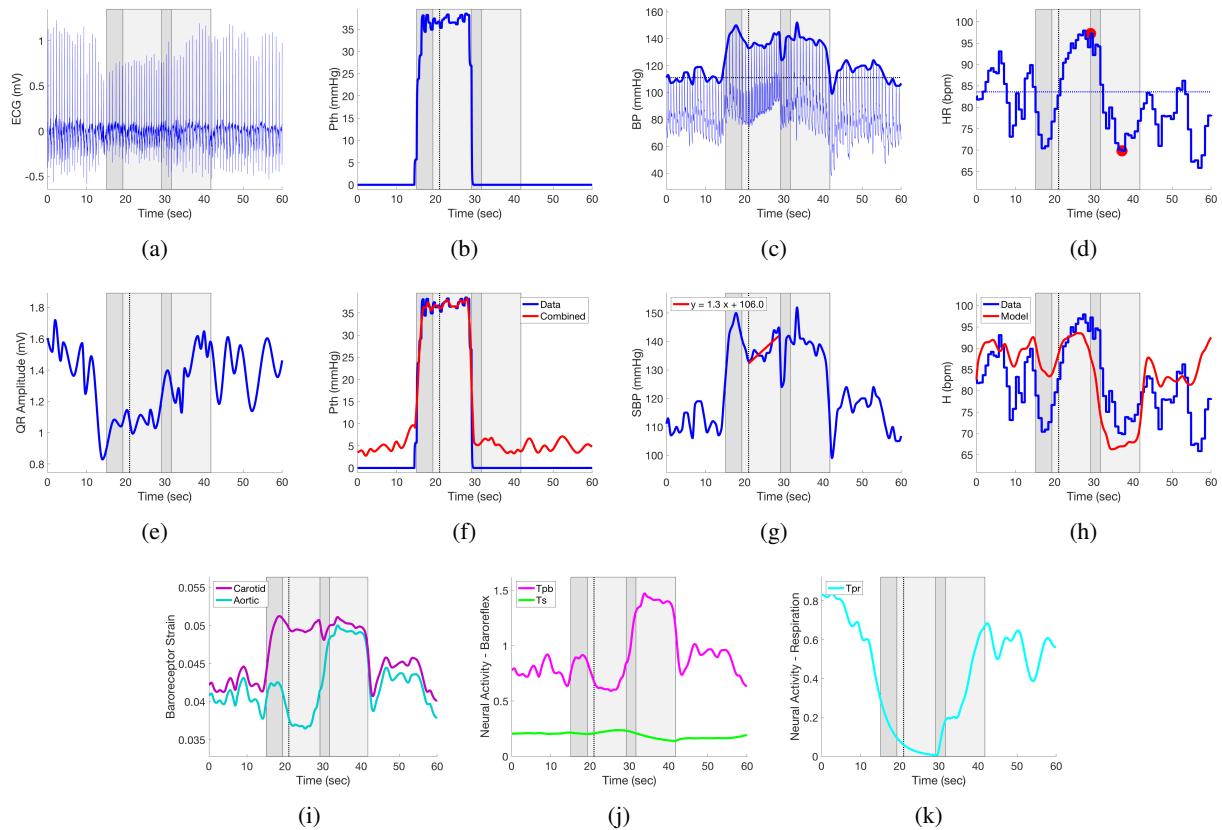


Figure 6: Control Subject 22 VM 8.

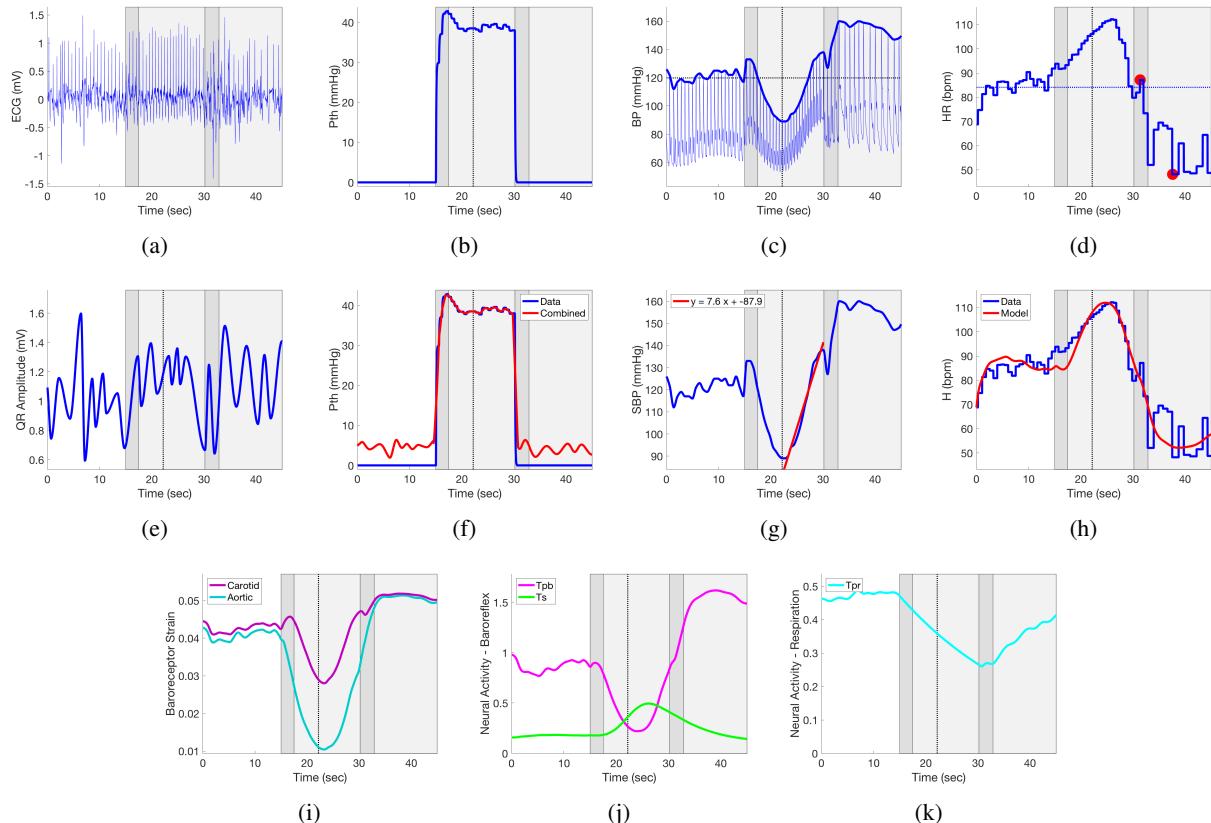


Figure 7: Control Subject 23 VM 1.

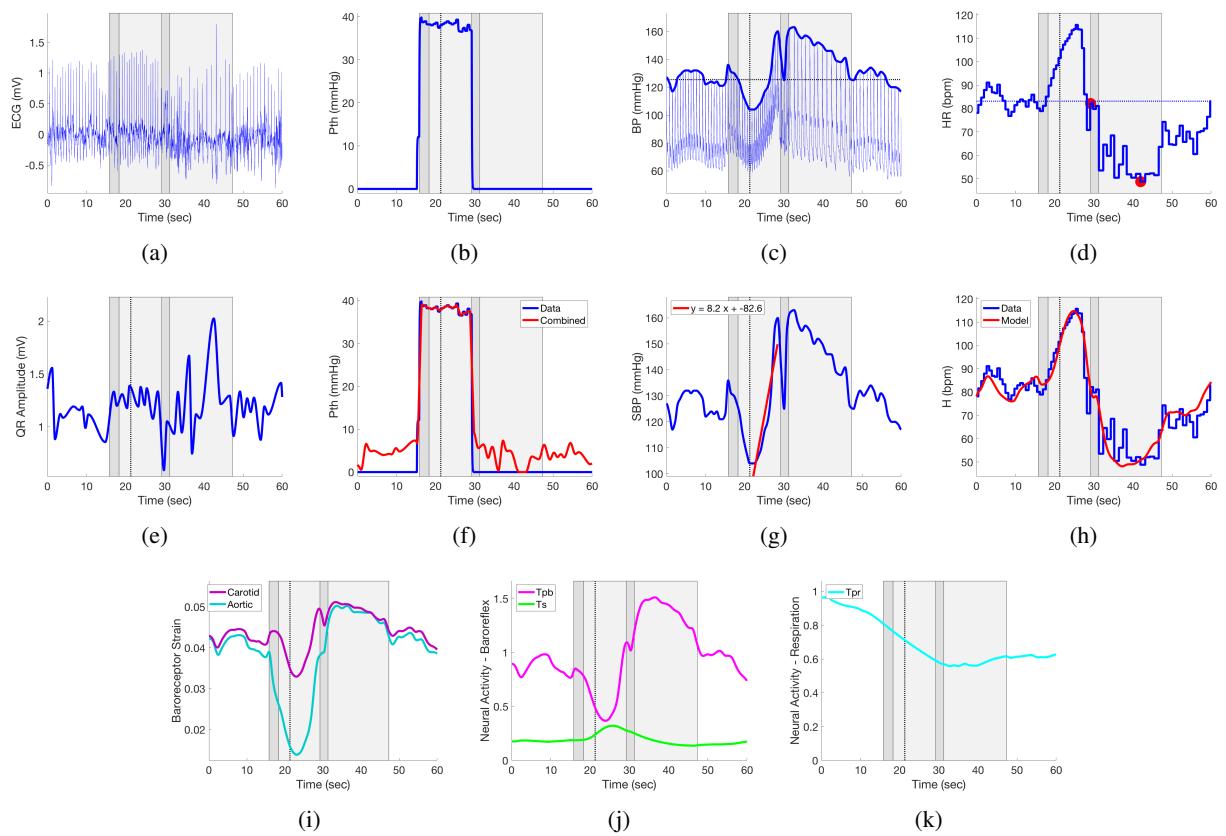


Figure 8: Control Subject 23 VM 2.

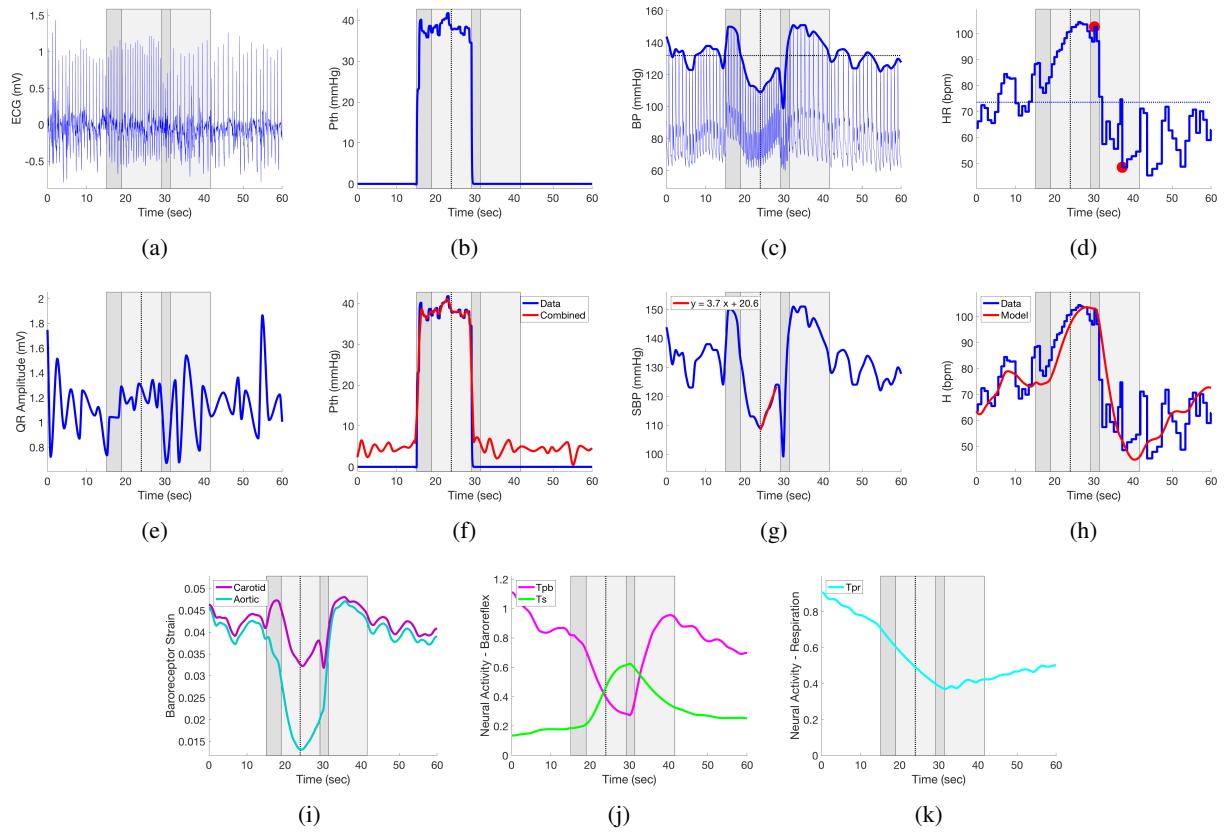


Figure 9: Control Subject 23 VM 3.

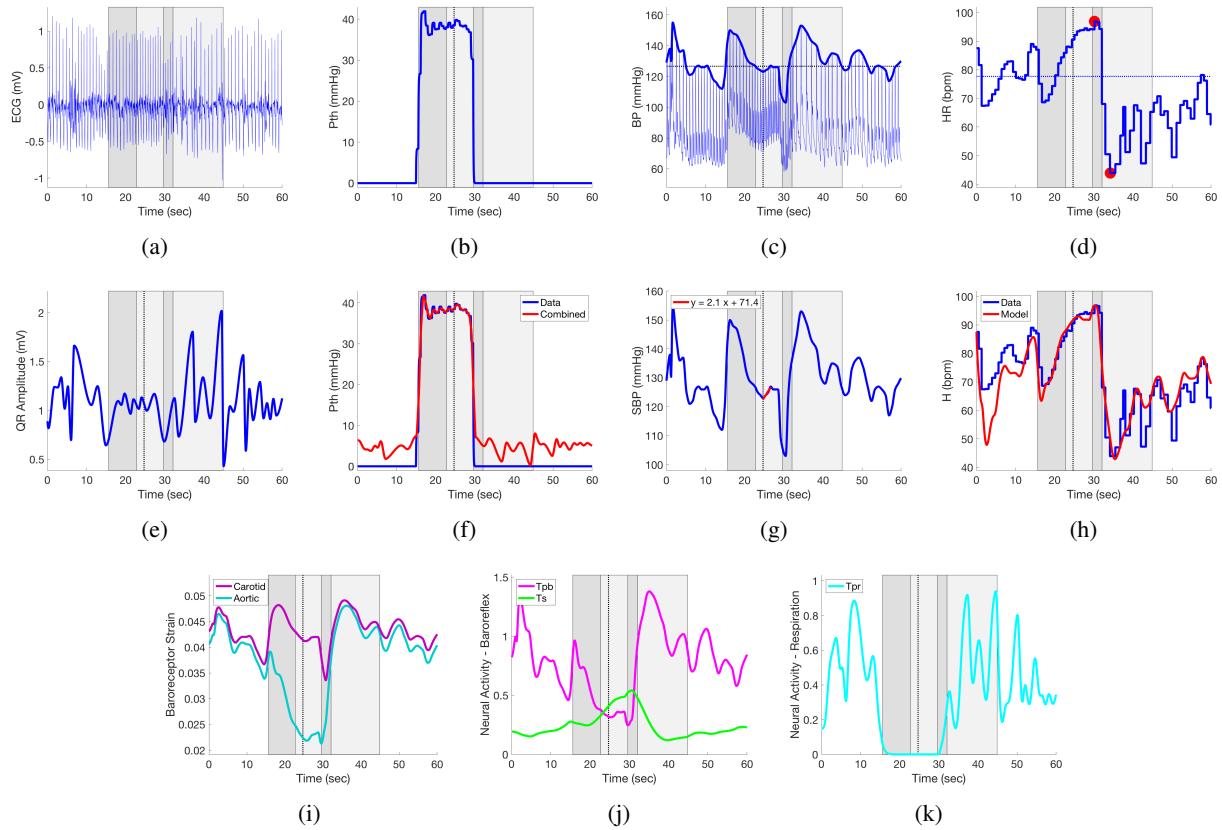


Figure 10: Control Subject 23 VM 6.

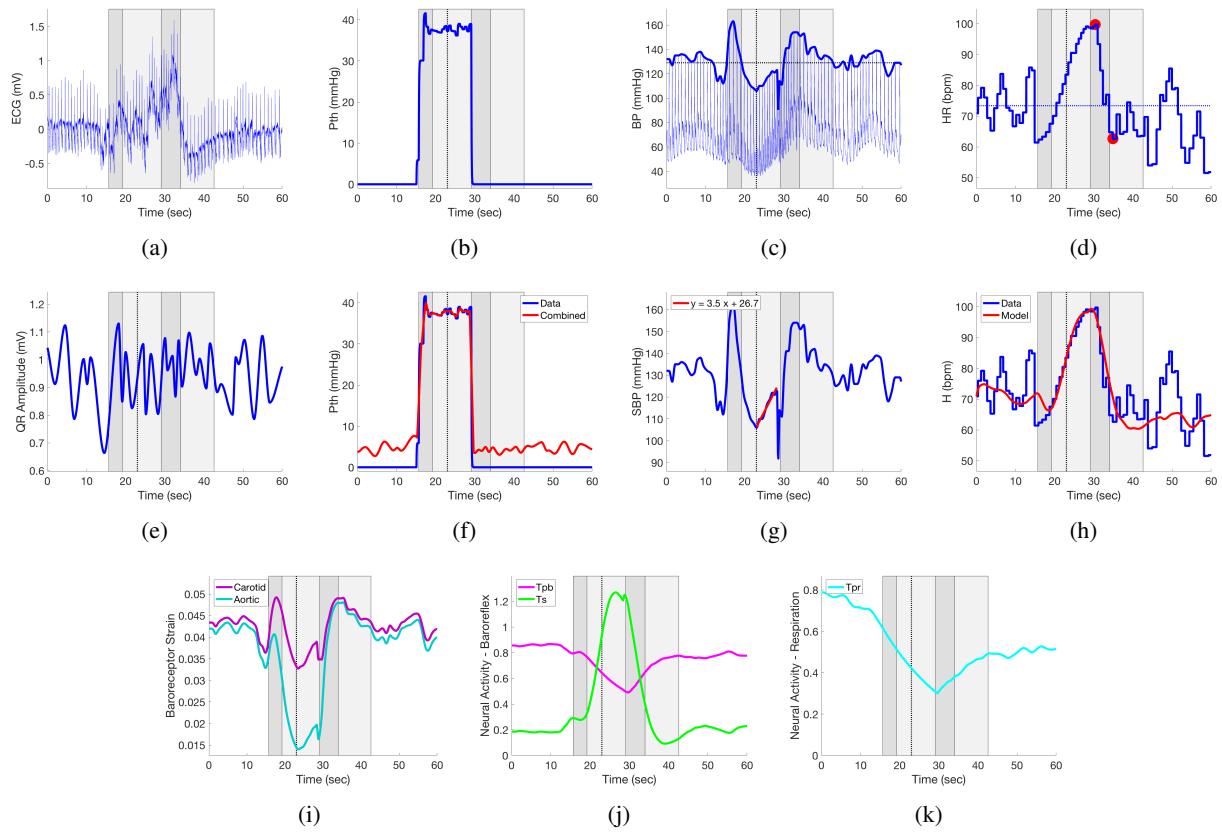


Figure 11: Control Subject 24 VM 2.

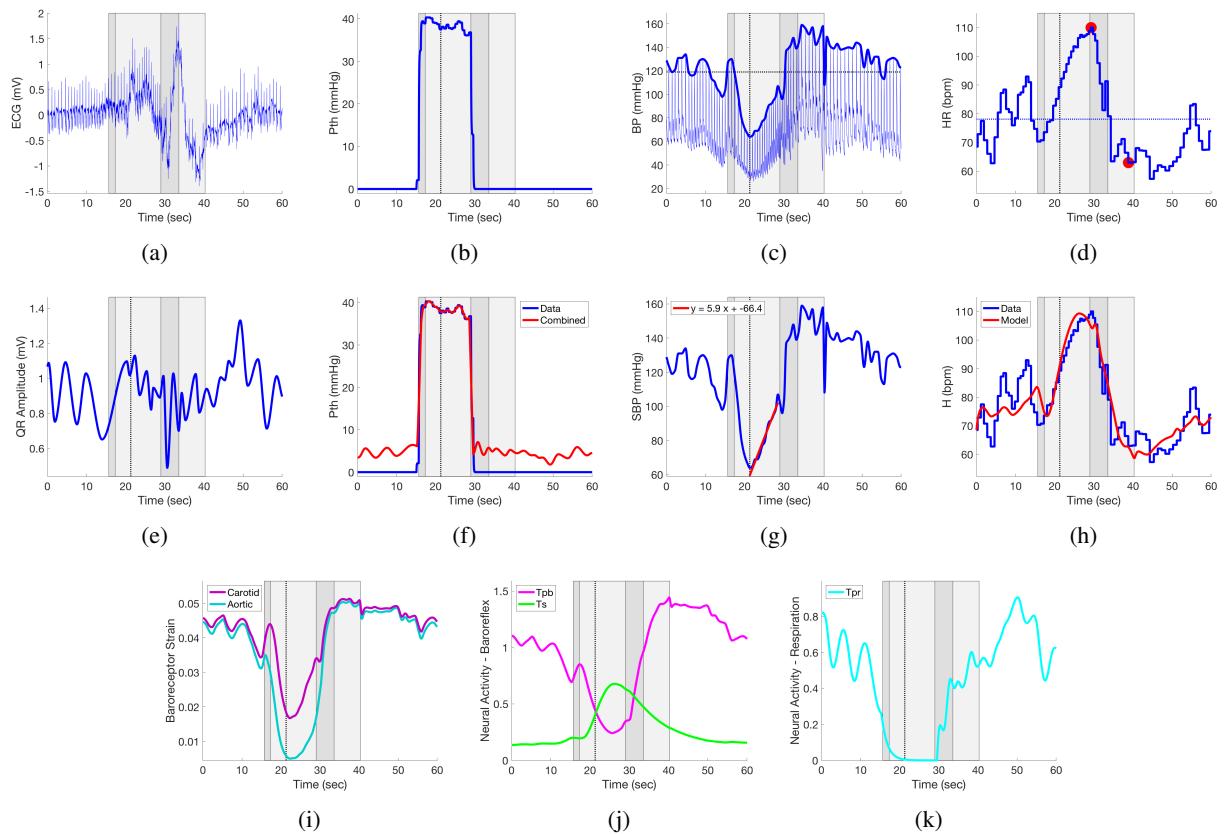


Figure 12: Control Subject 24 VM 3.

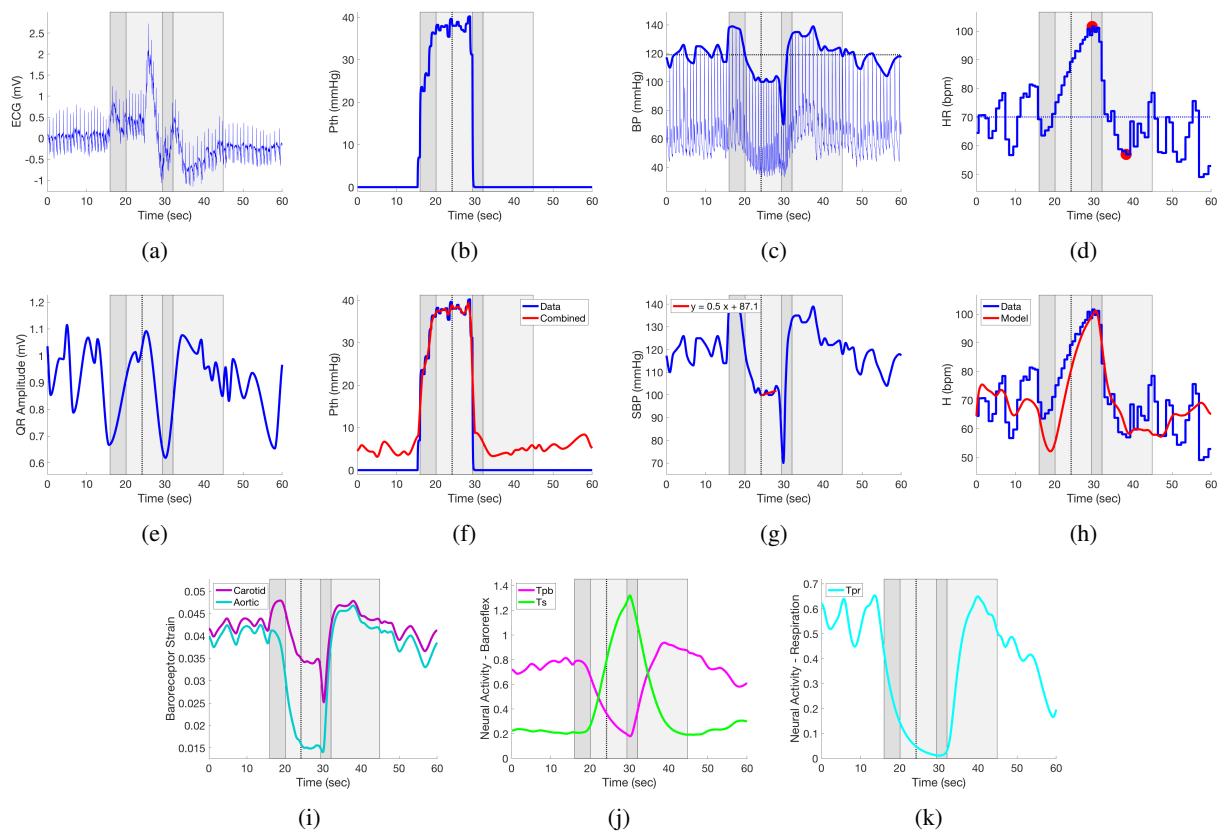


Figure 13: Control Subject 24 VM 4.

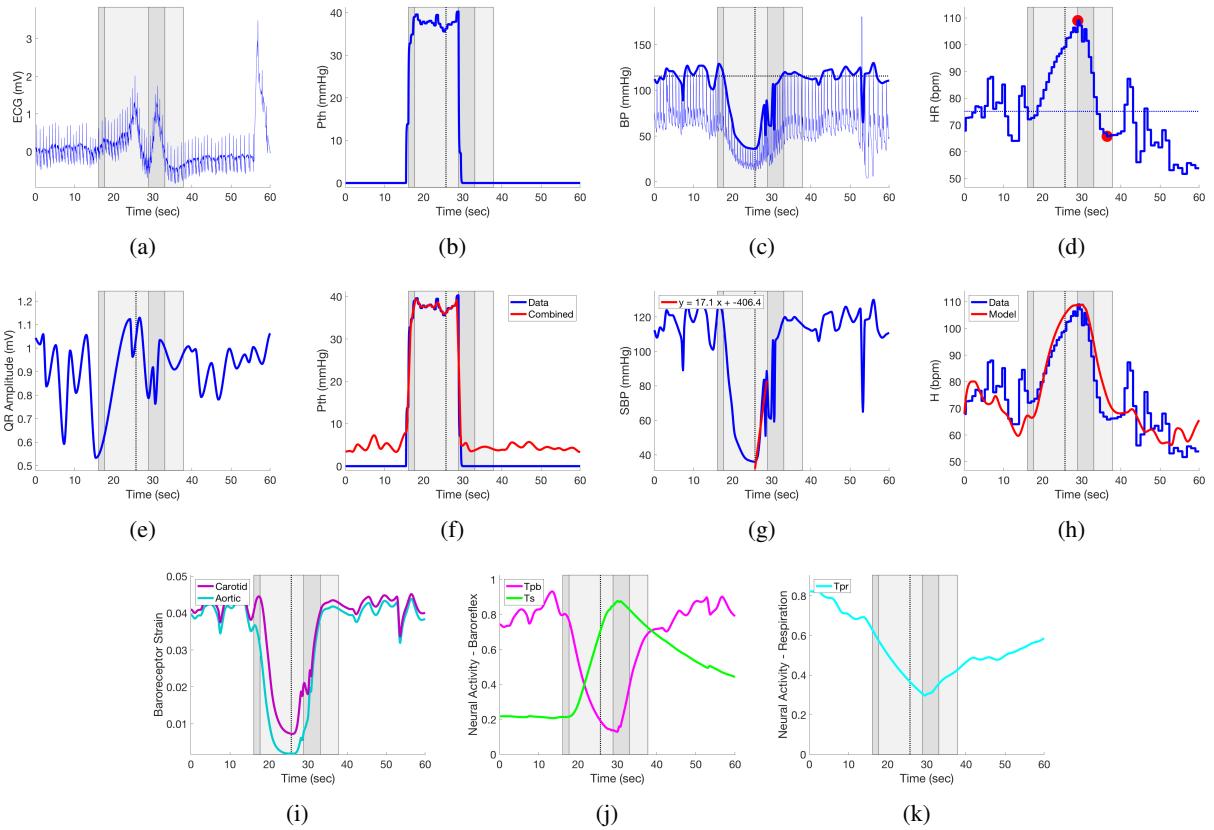


Figure 14: Control Subject 24 VM 5.

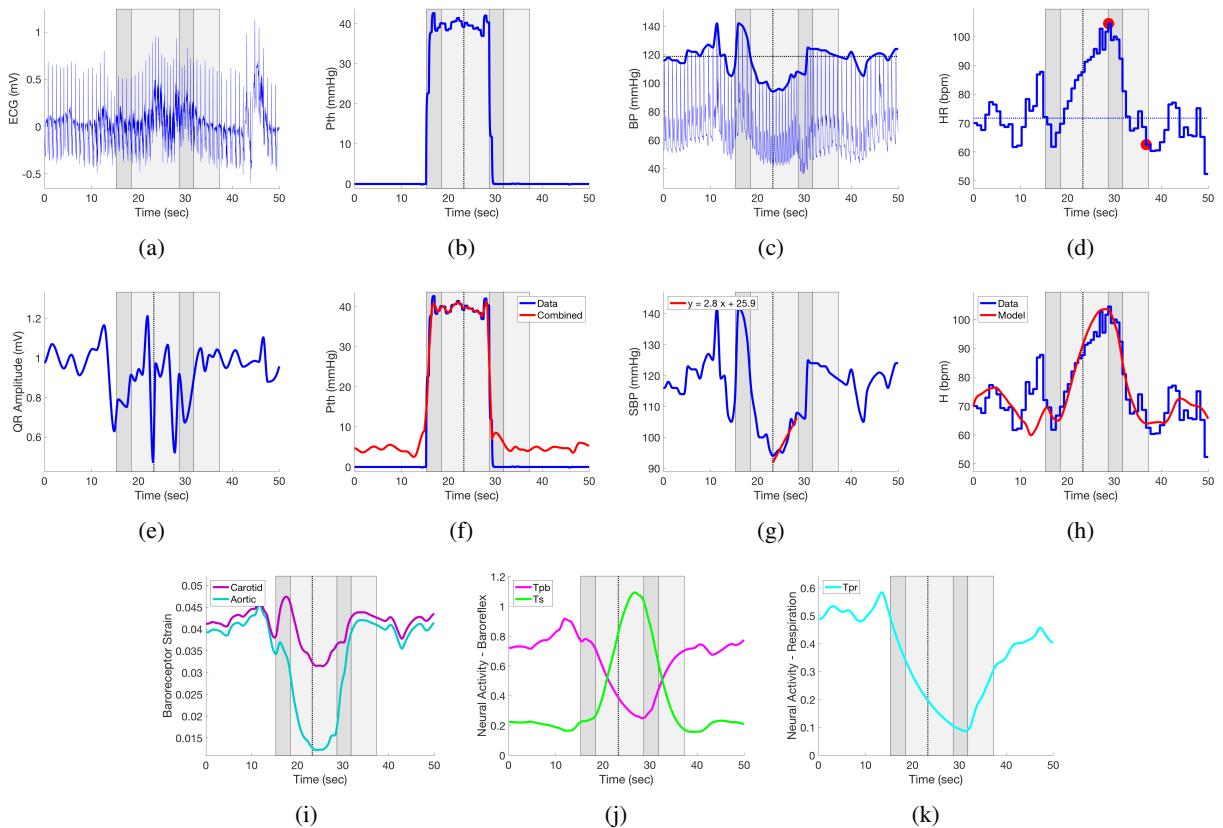


Figure 15: Control Subject 24 VM 7.

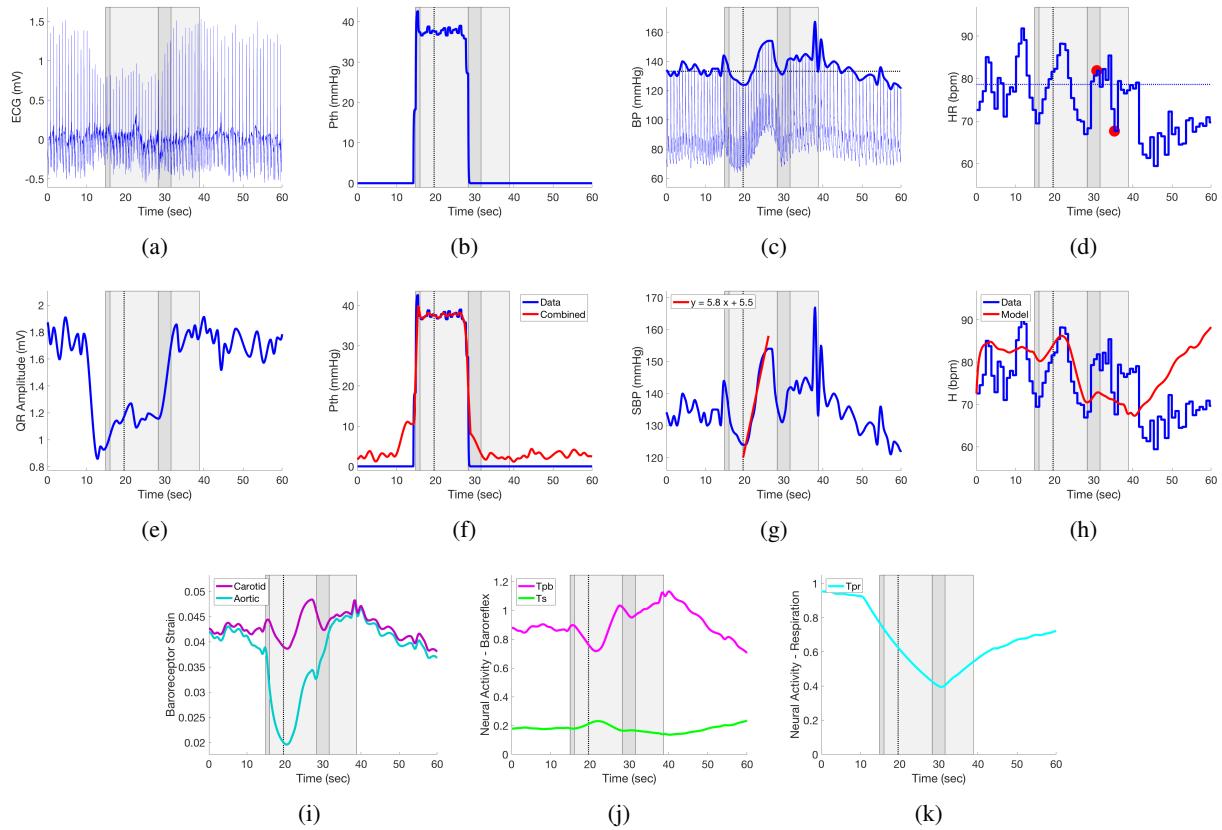


Figure 16: Control Subject 25 VM 2.

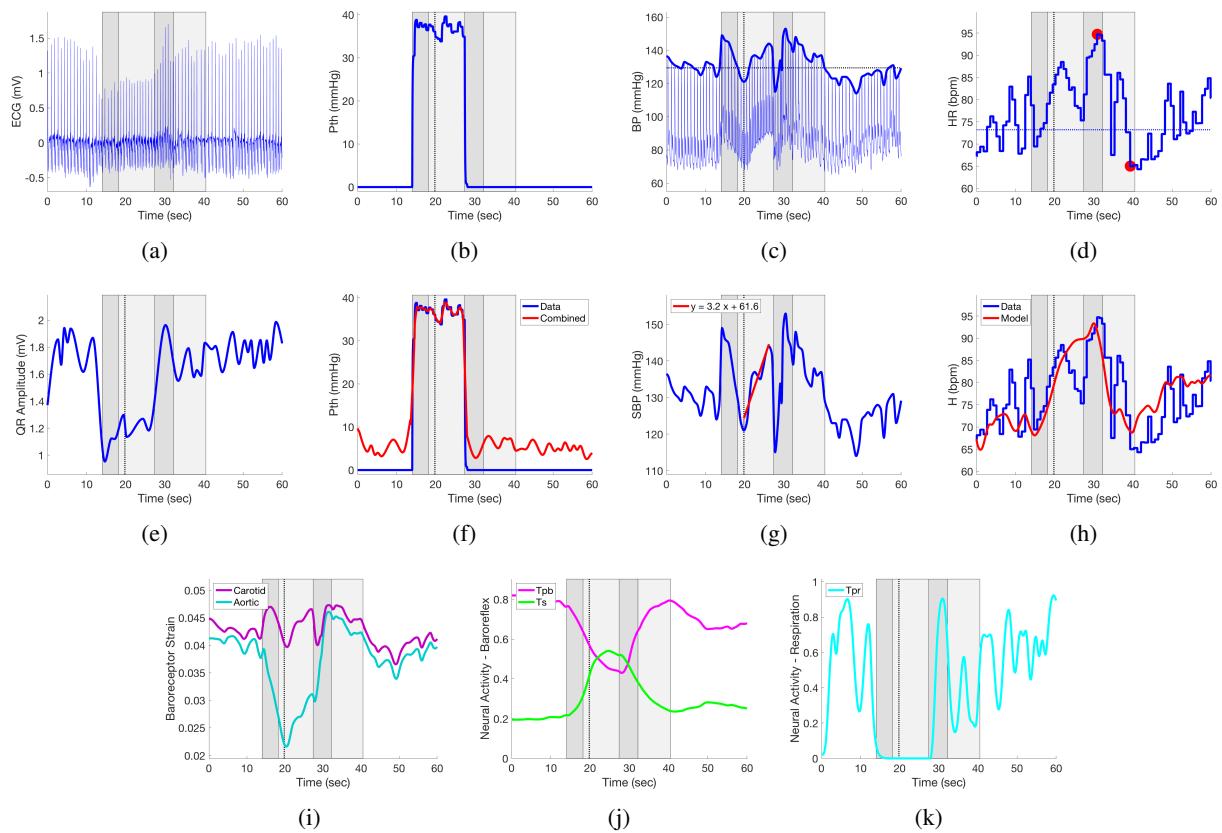


Figure 17: Control Subject 25 VM 3.

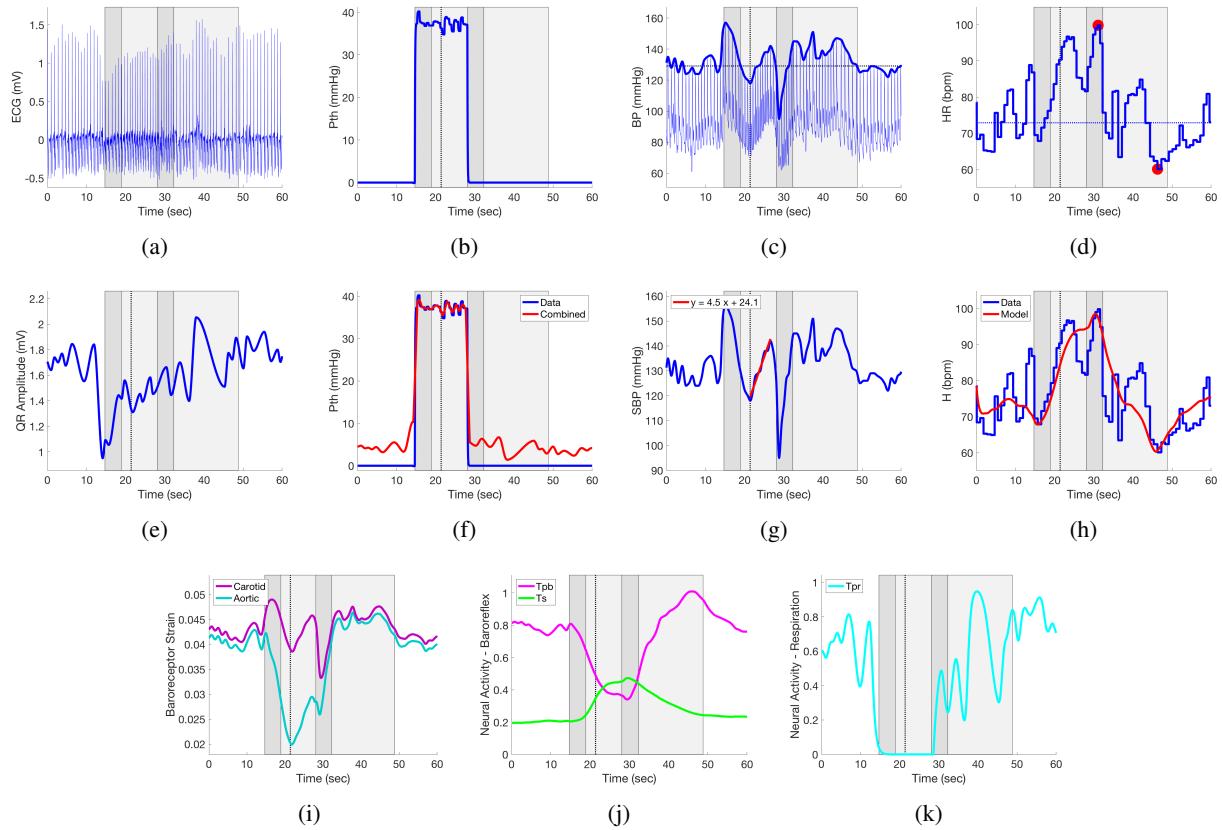


Figure 18: Control Subject 25 VM 5.

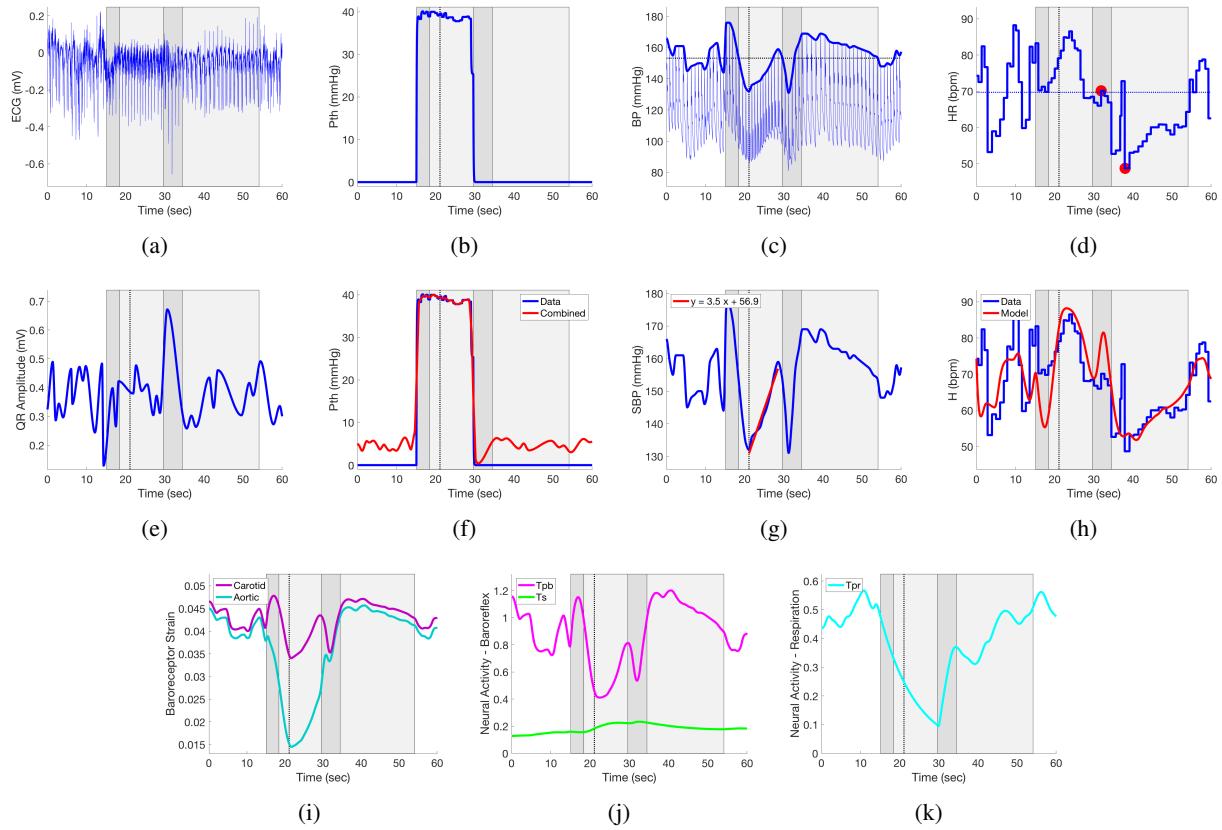


Figure 19: Control Subject 26 VM 7.

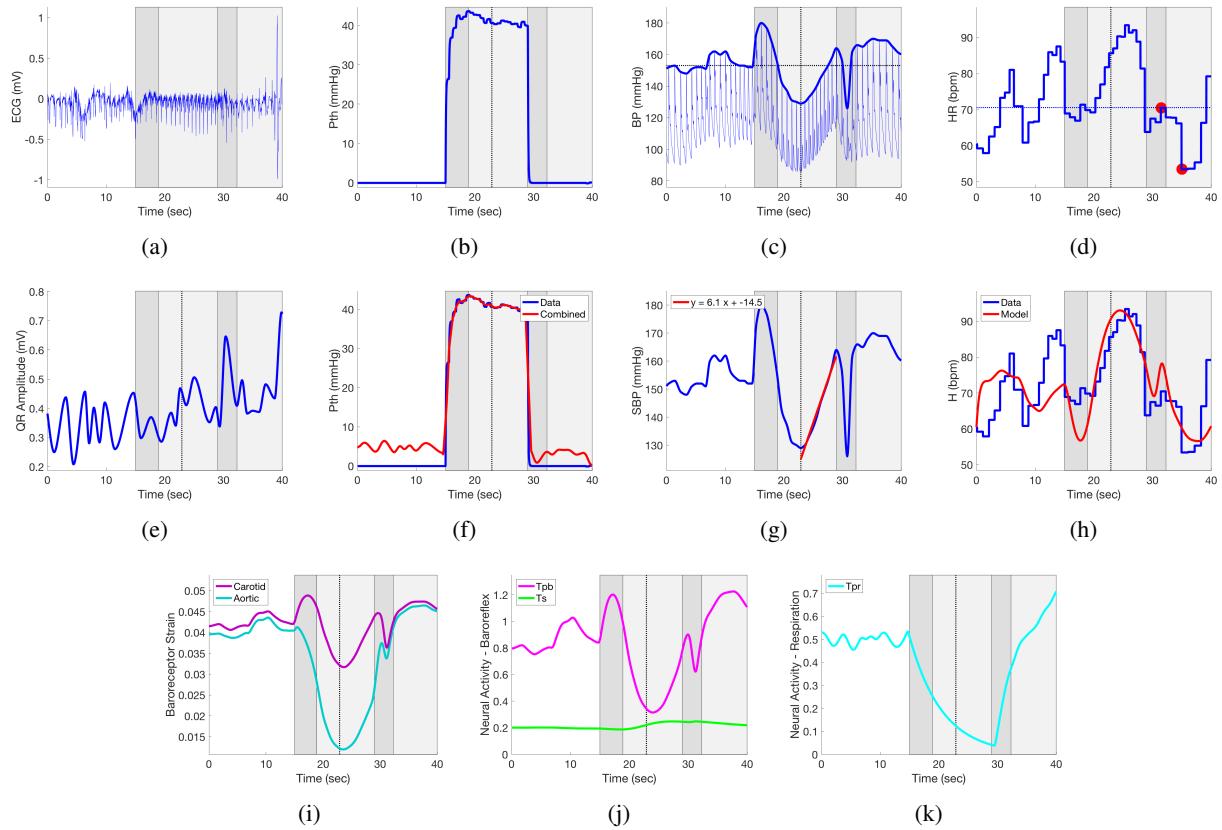


Figure 20: Control Subject 26 VM 8.

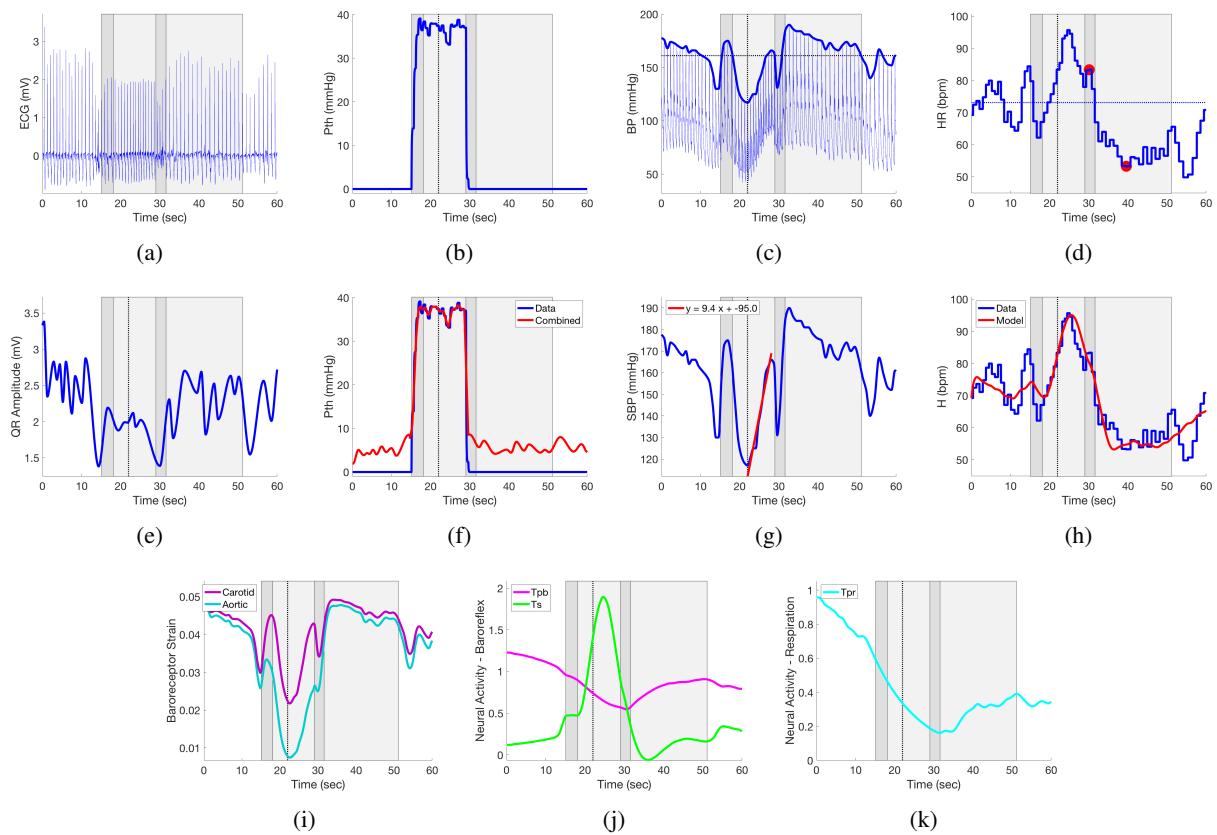


Figure 21: Control Subject 27 VM 2.

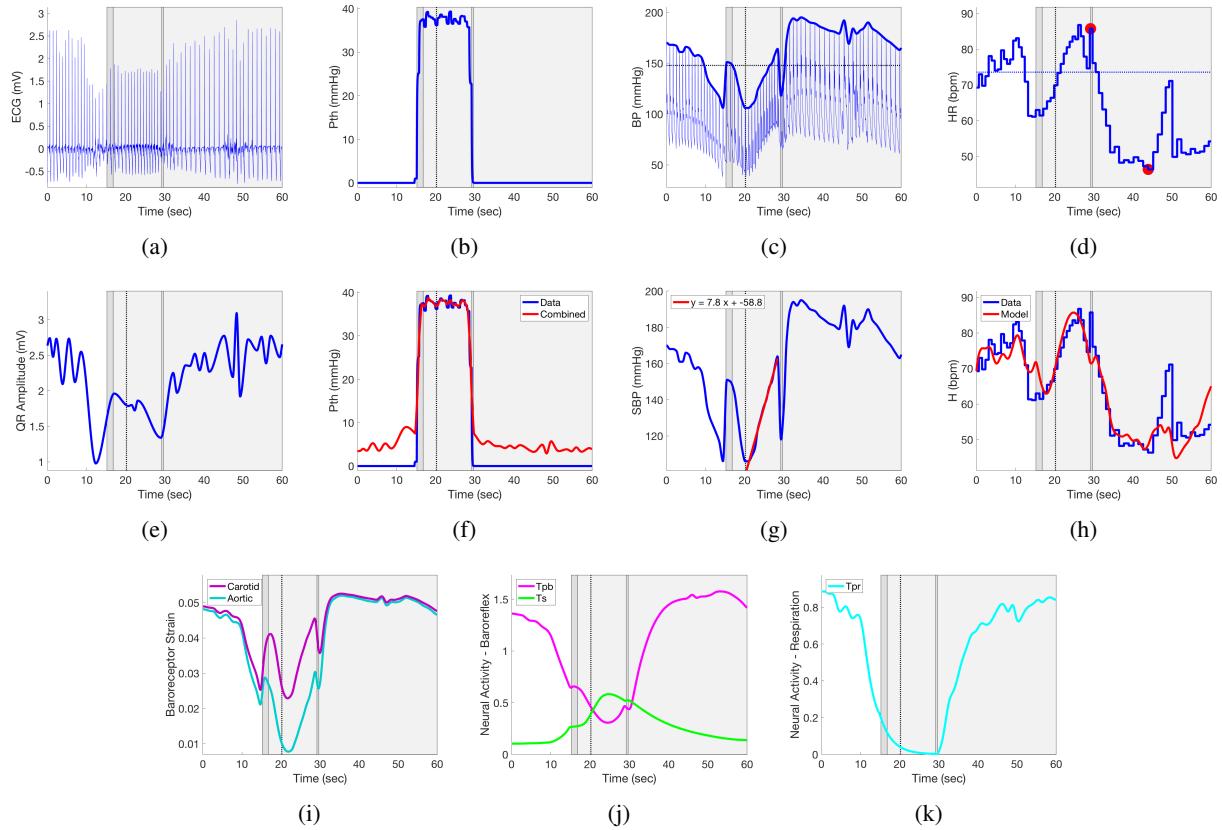


Figure 22: Control Subject 27 VM 3.

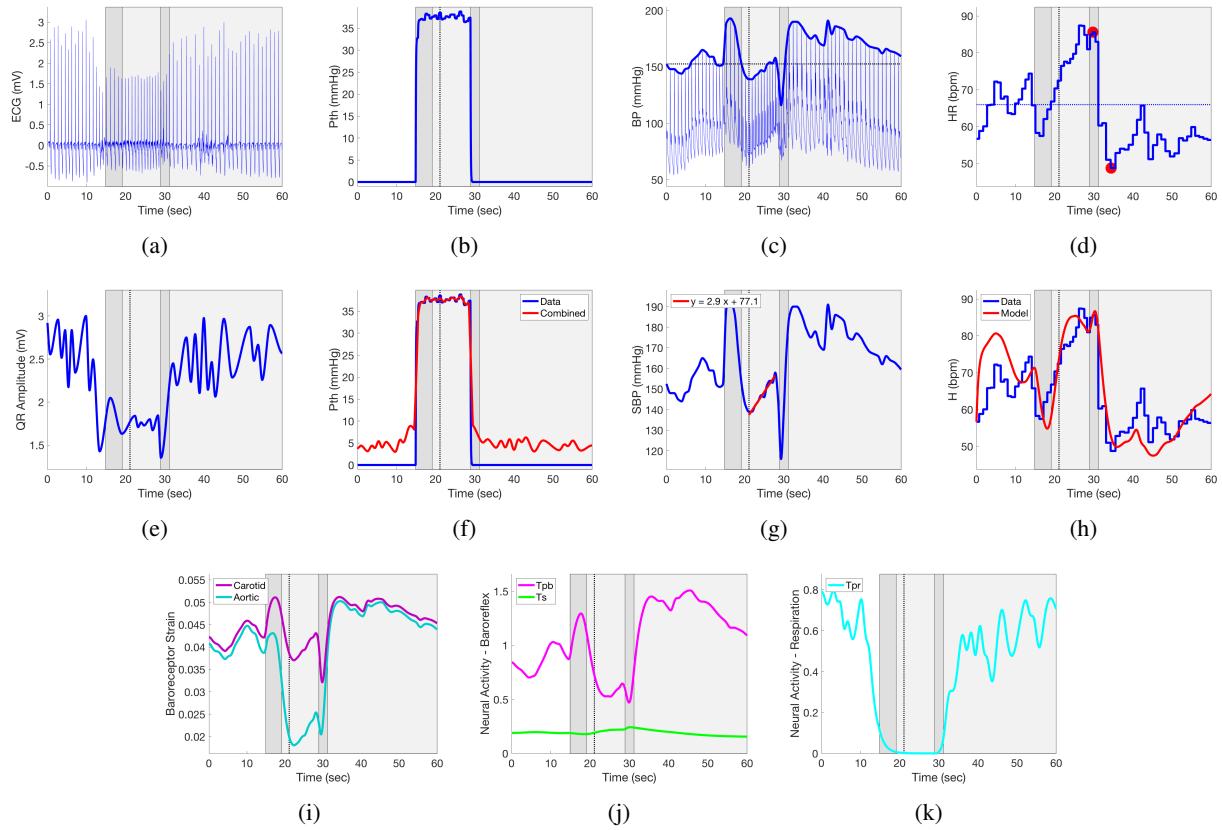


Figure 23: Control Subject 27 VM 5.

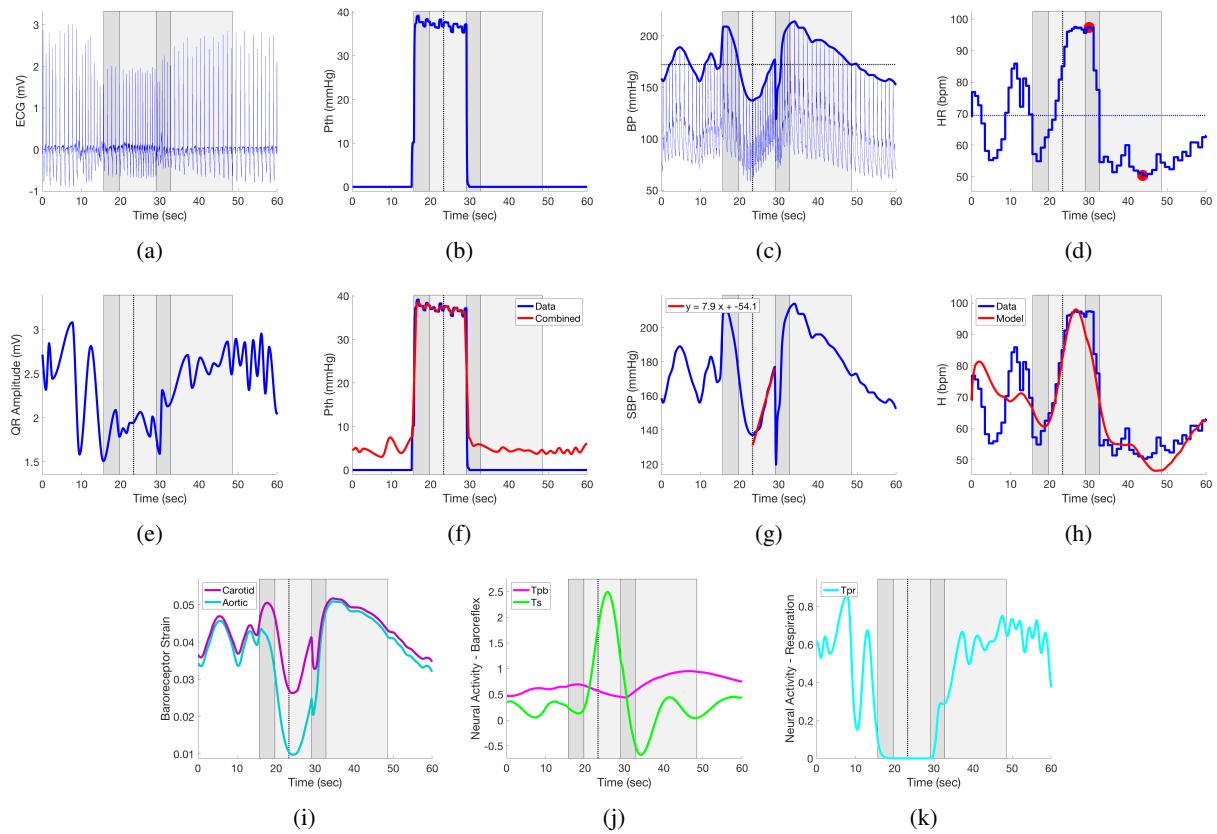


Figure 24: Control Subject 27 VM 6.

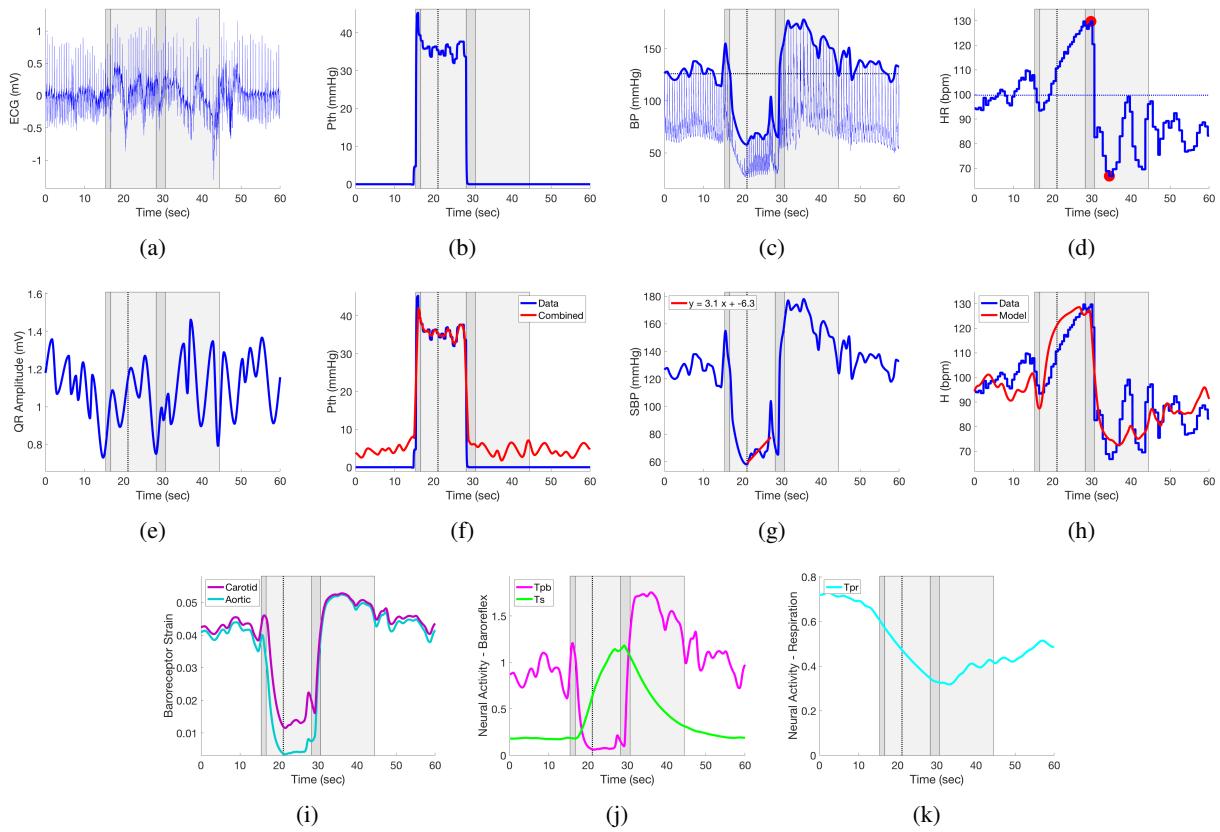


Figure 25: Control Subject 28 VM 1.

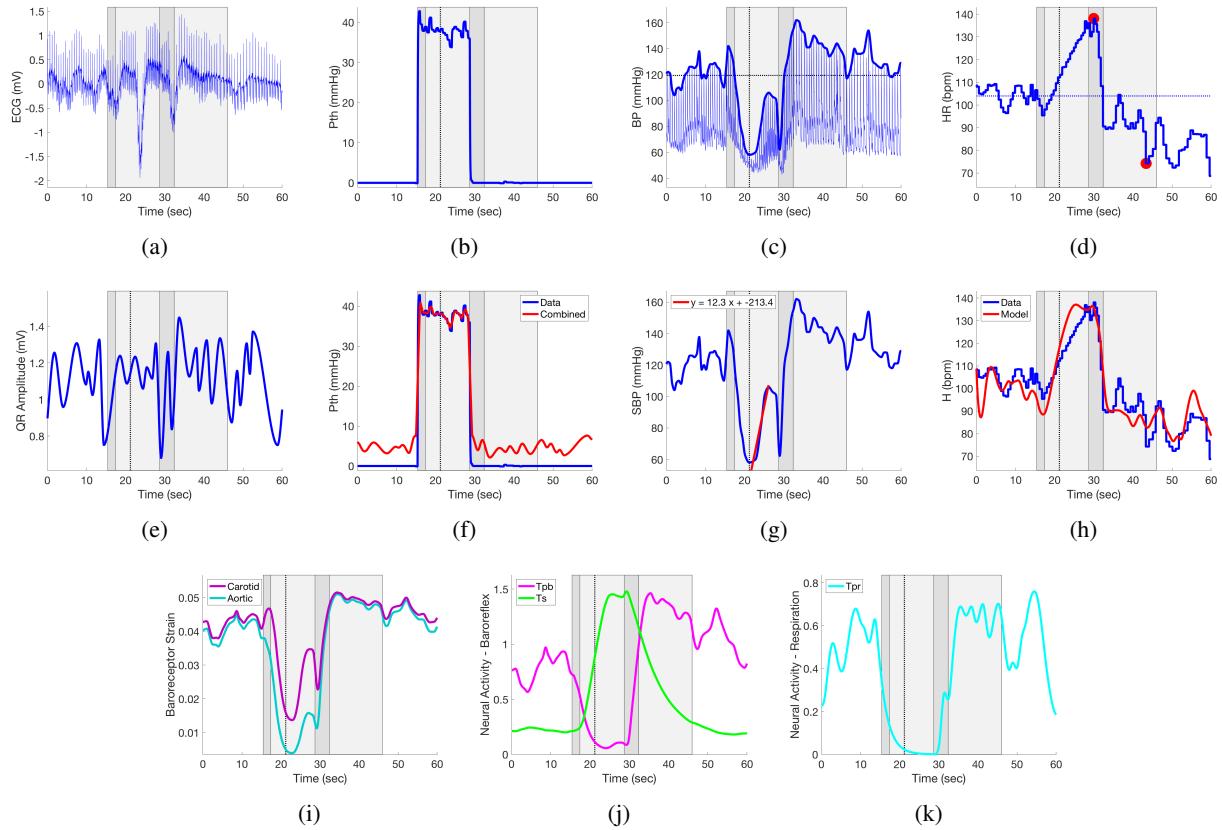


Figure 26: Control Subject 28 VM 3.

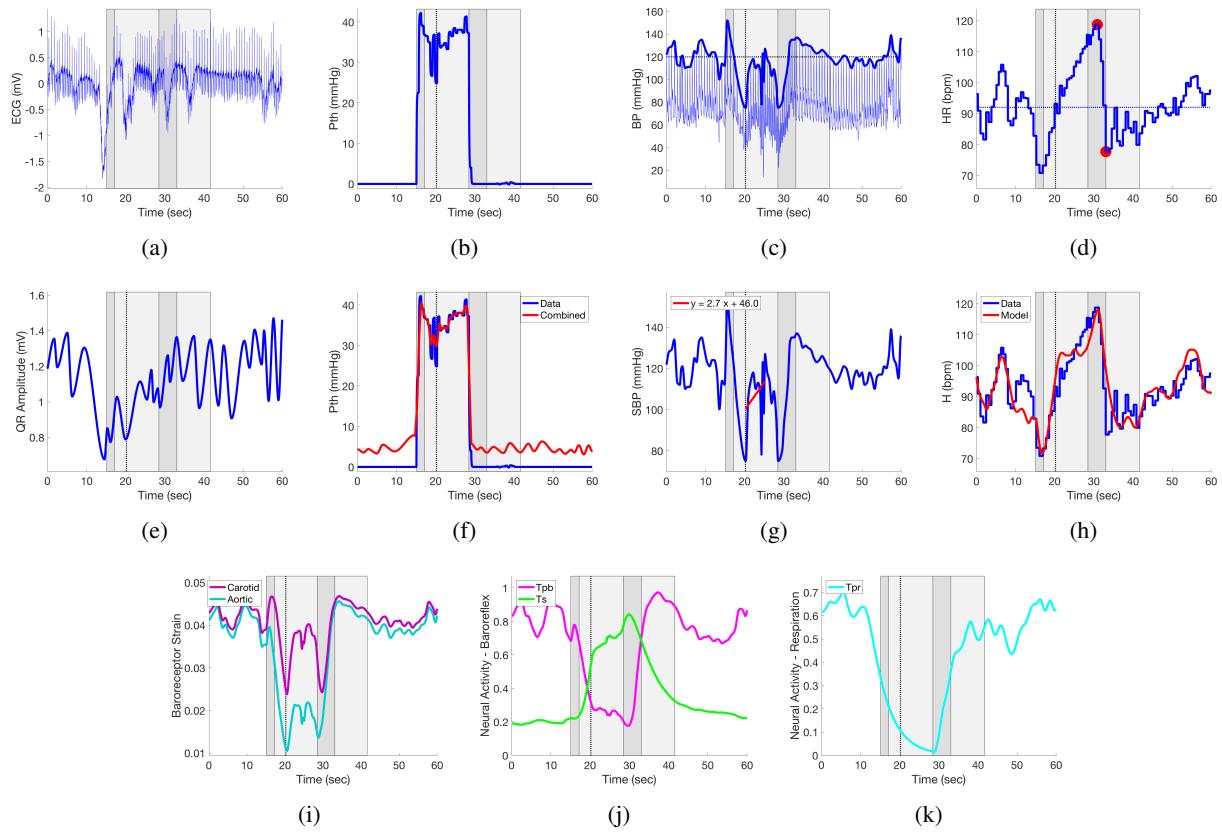


Figure 27: Control Subject 28 VM 4.

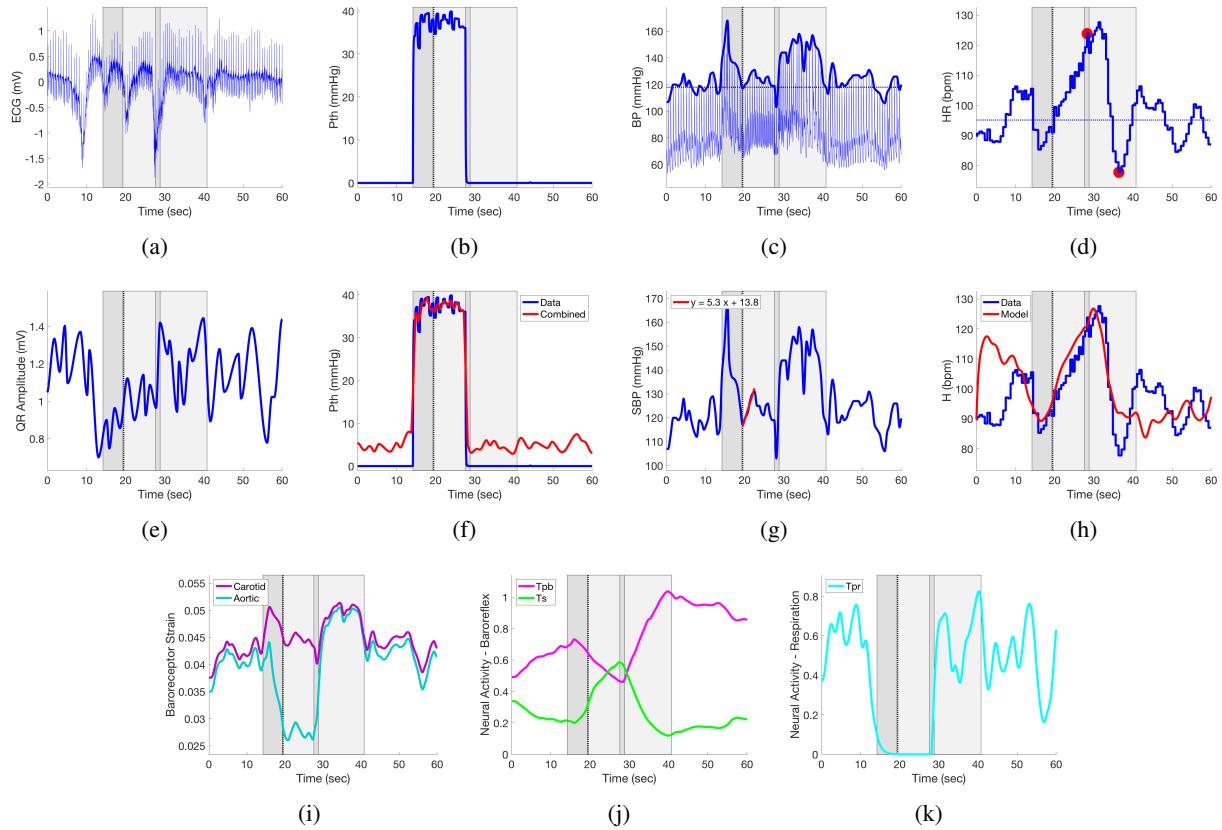


Figure 28: Control Subject 28 VM 5.

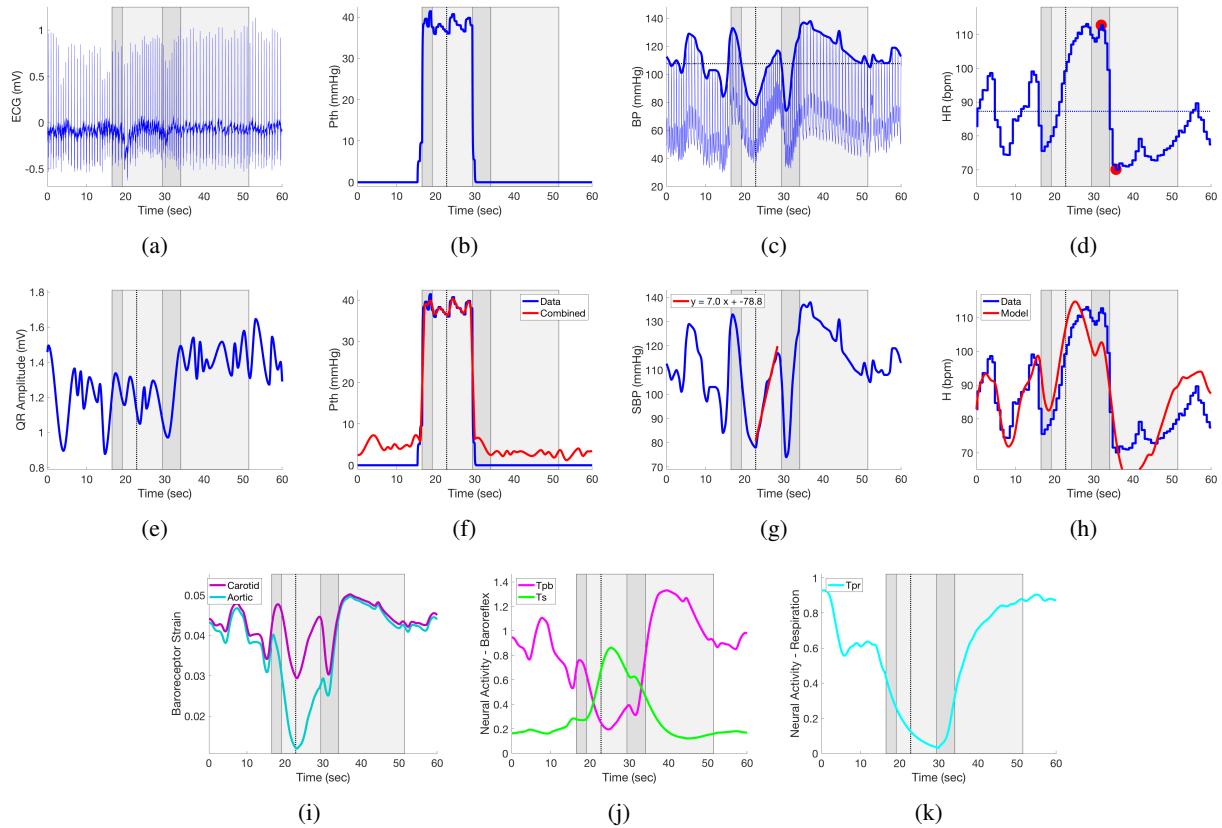


Figure 29: Control Subject 29 VM 1.

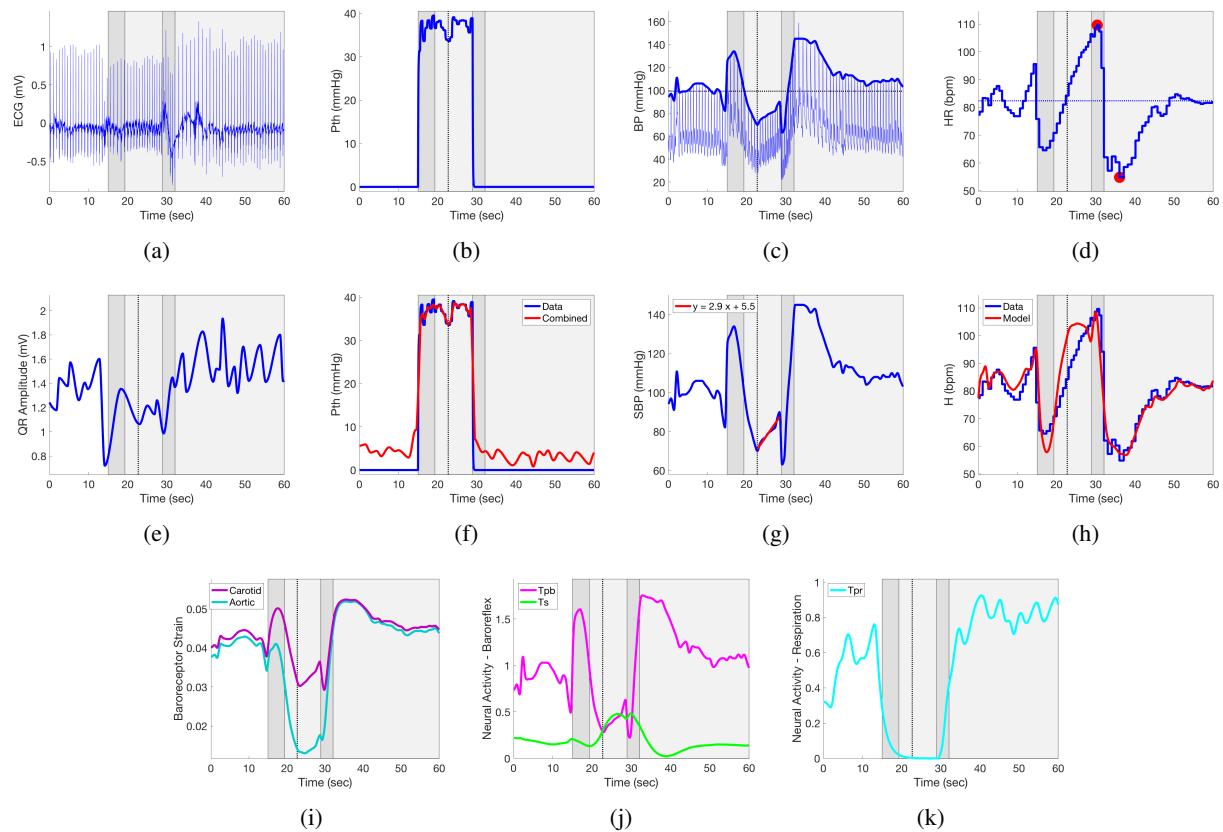


Figure 30: Control Subject 29 VM 4.

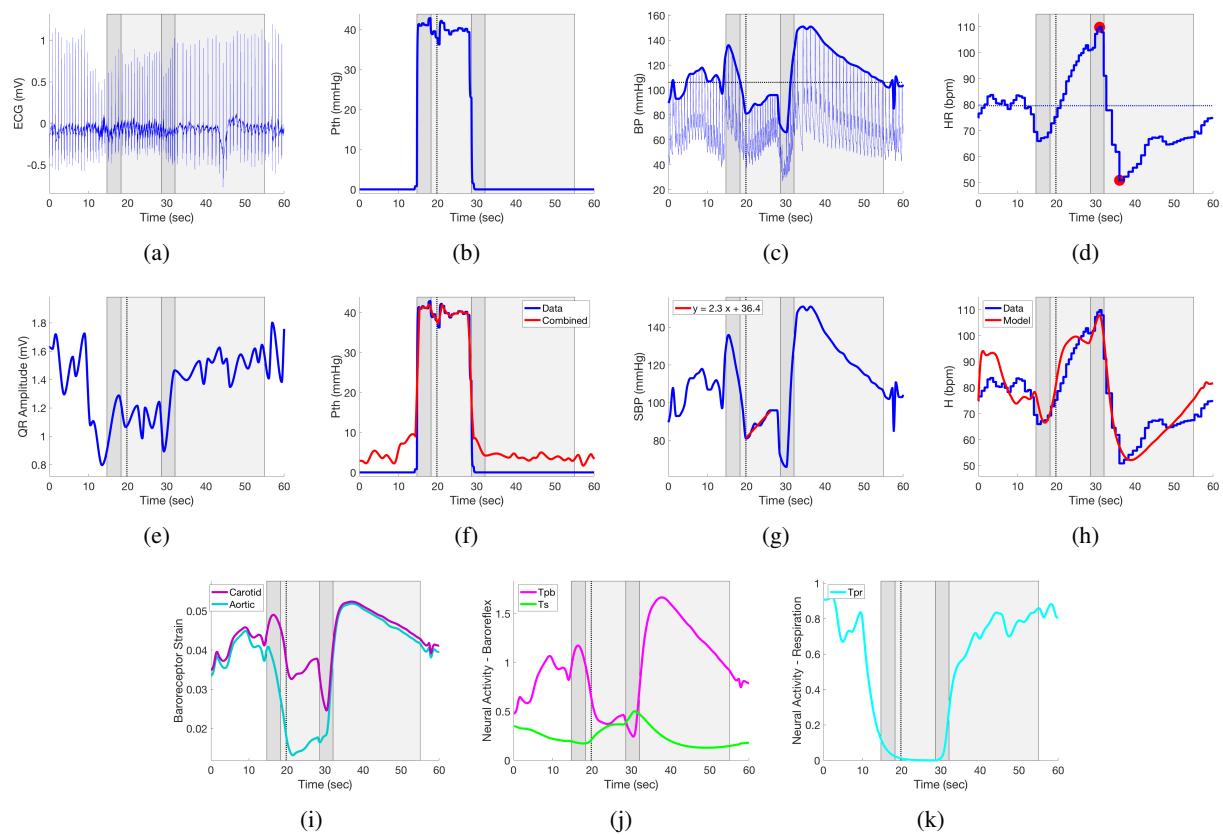


Figure 31: Control Subject 29 VM 5.

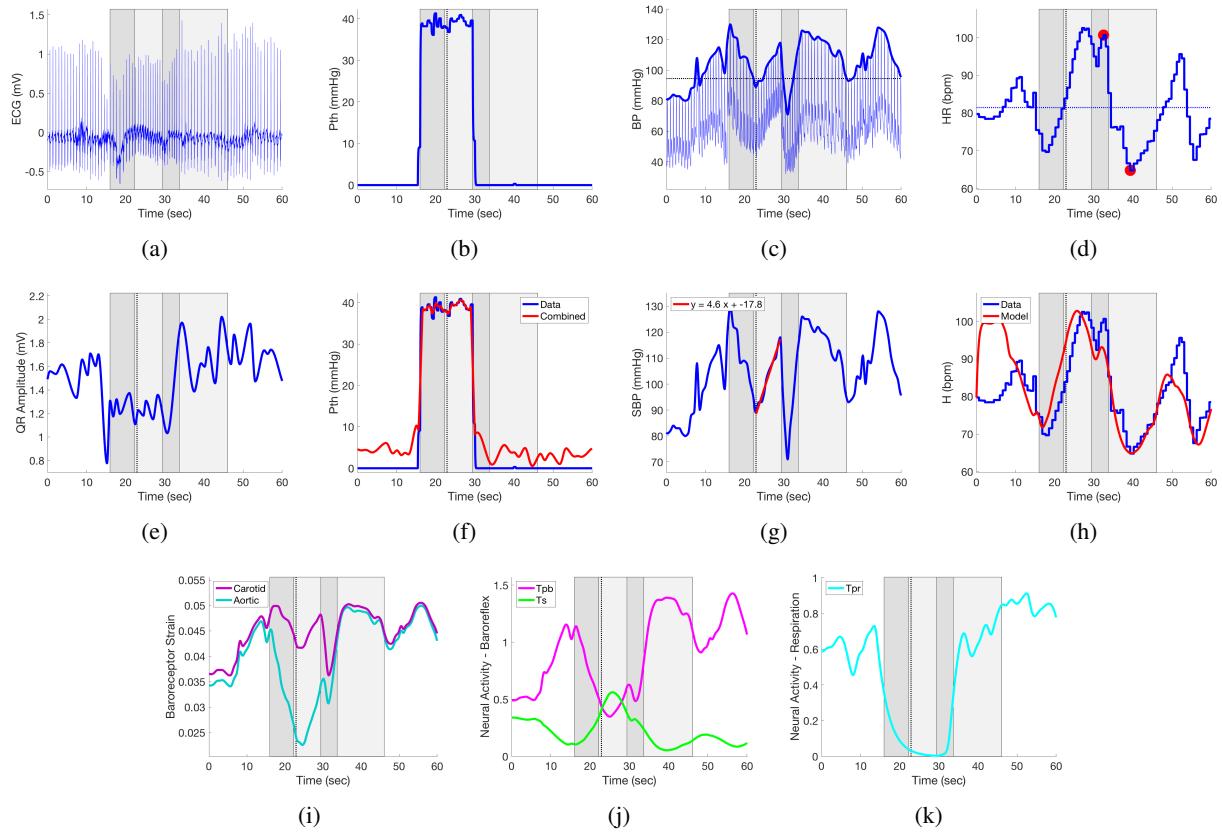


Figure 32: Control Subject 29 VM 6.

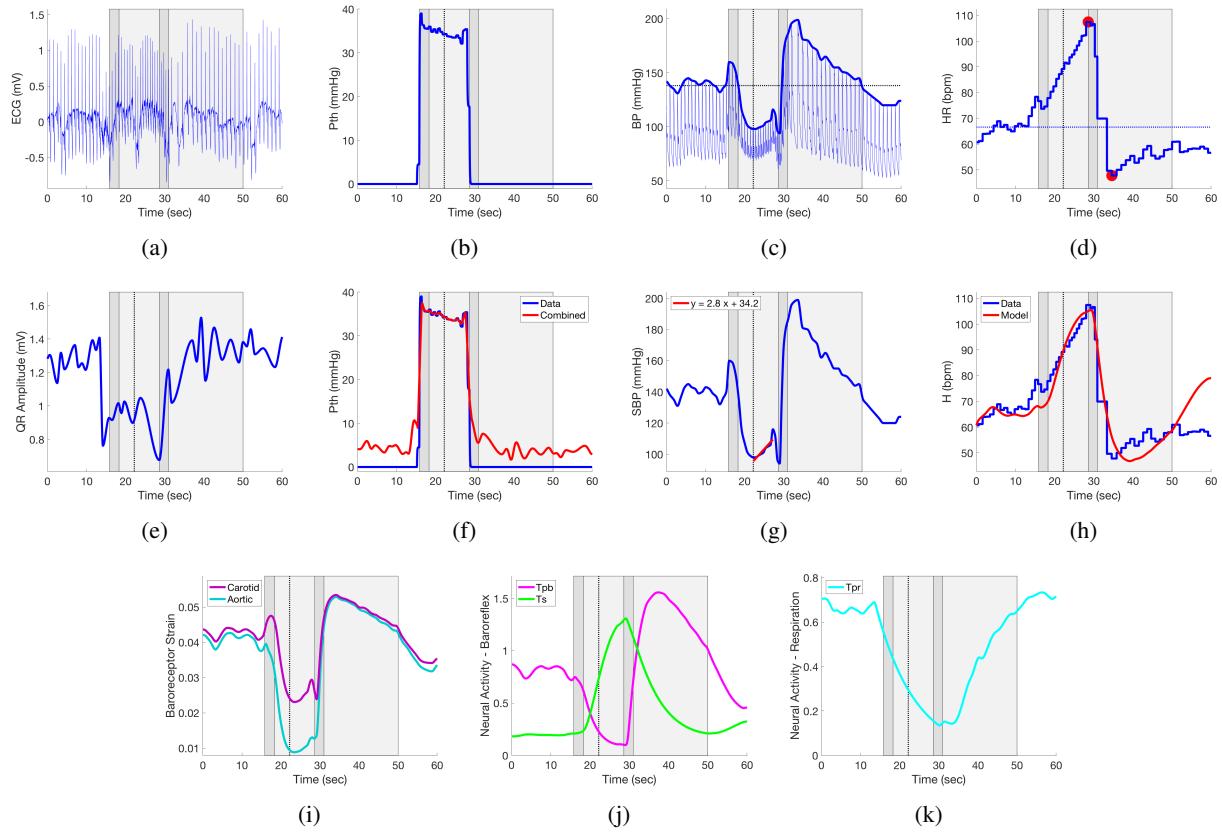


Figure 33: Control Subject 30 VM 2.

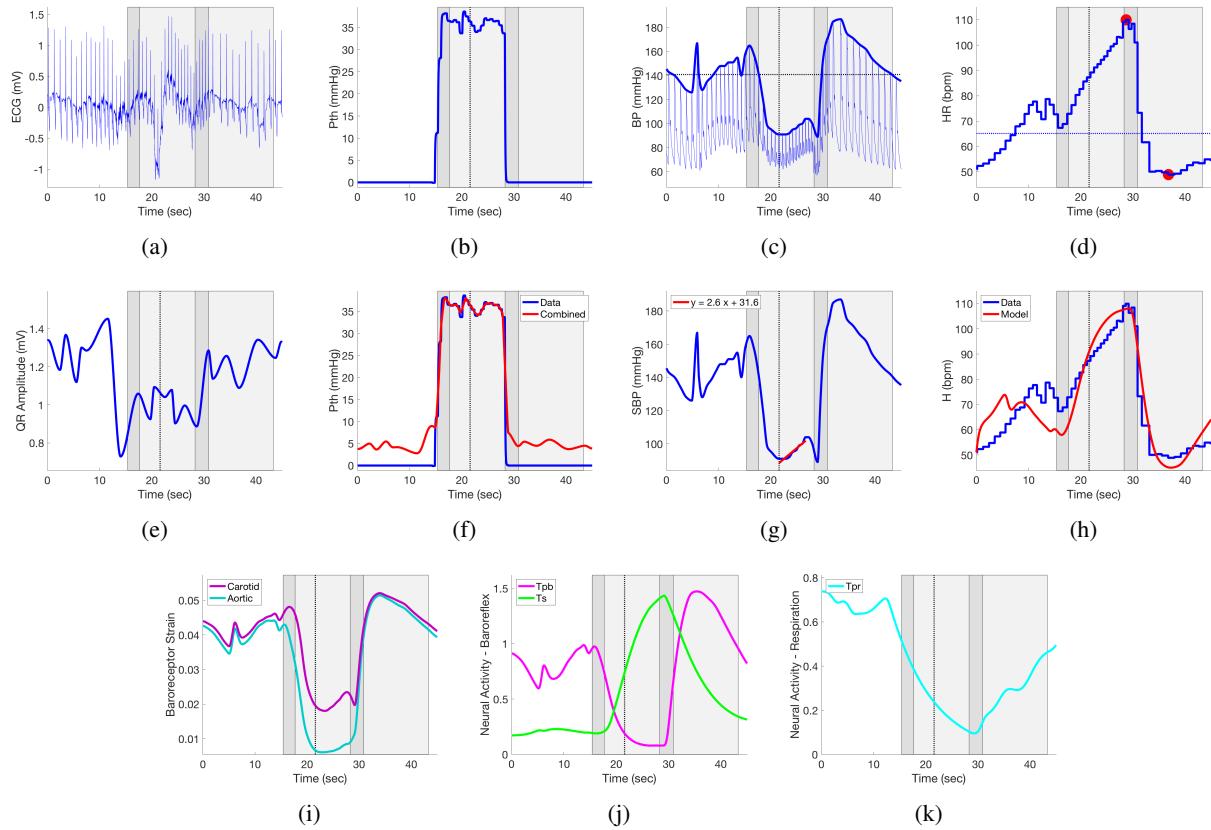


Figure 34: Control Subject 30 VM 4.

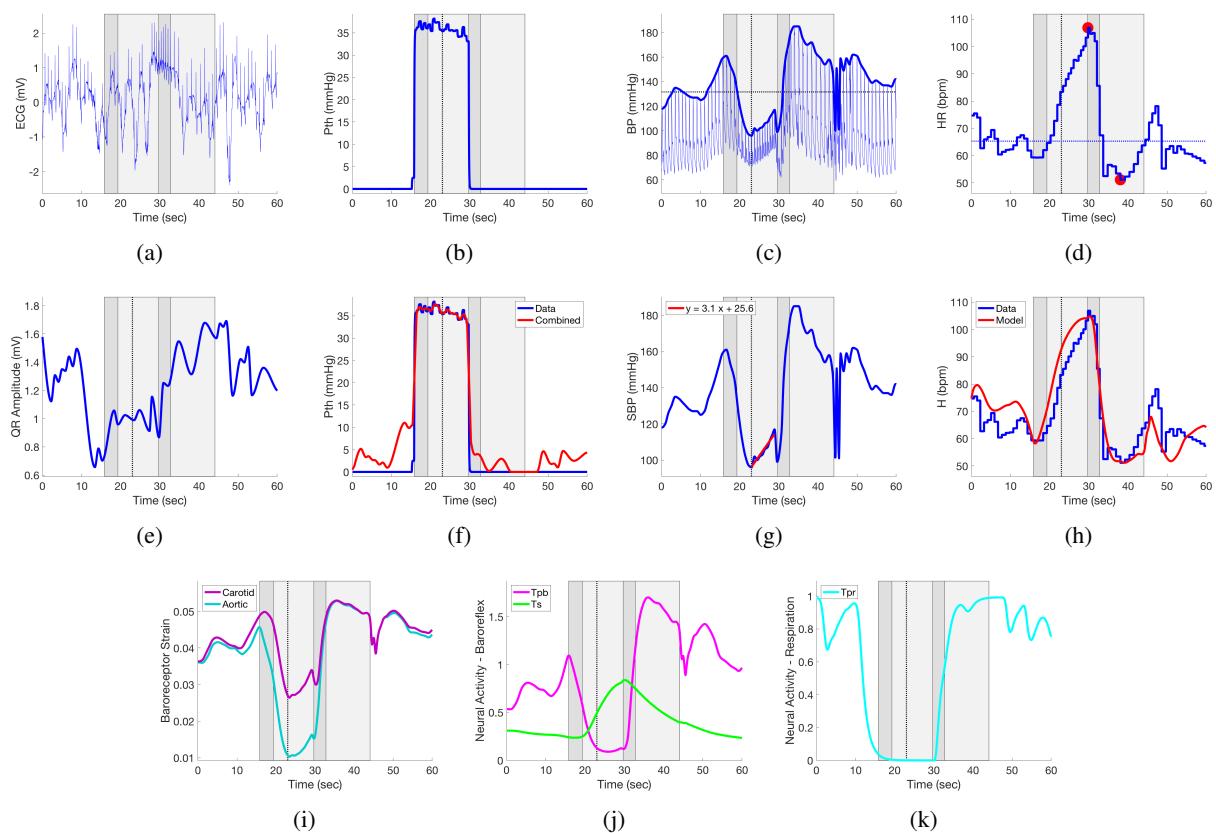


Figure 35: Control Subject 30 VM 5.

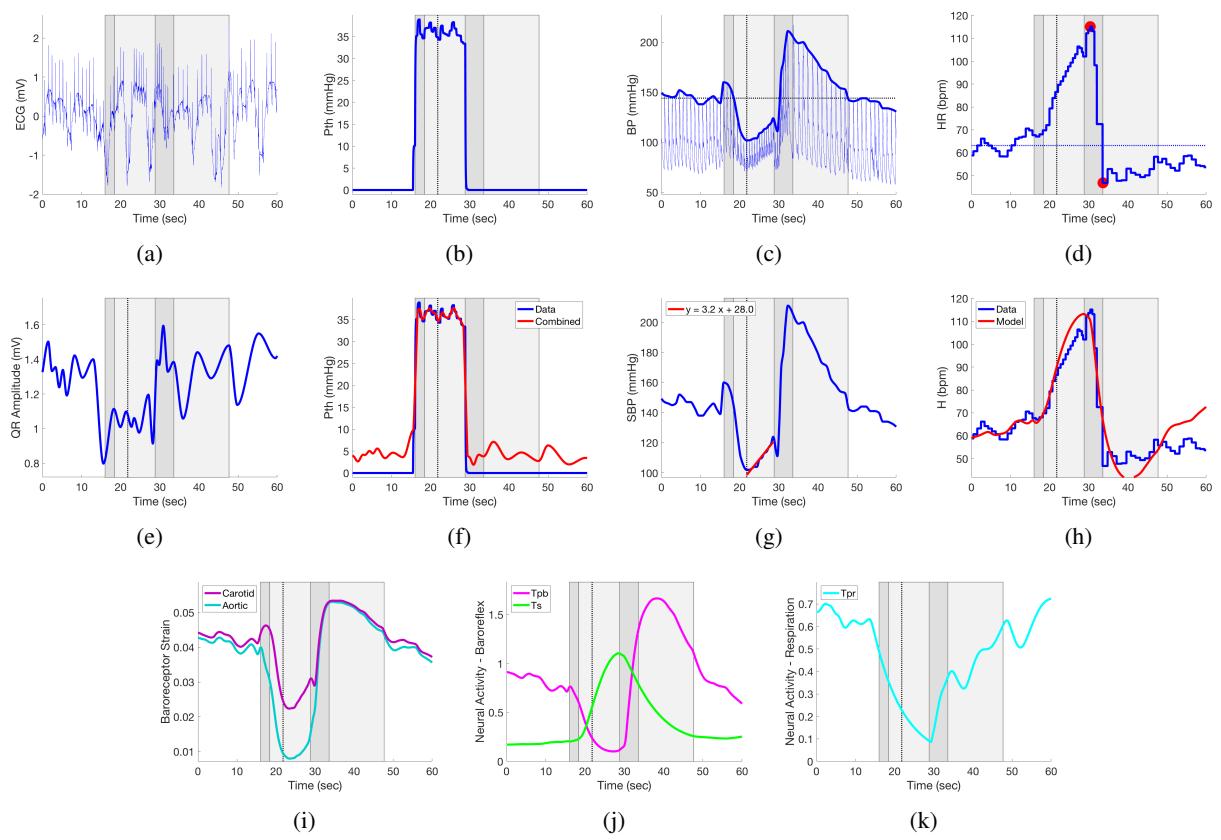


Figure 36: Control Subject 30 VM 6.