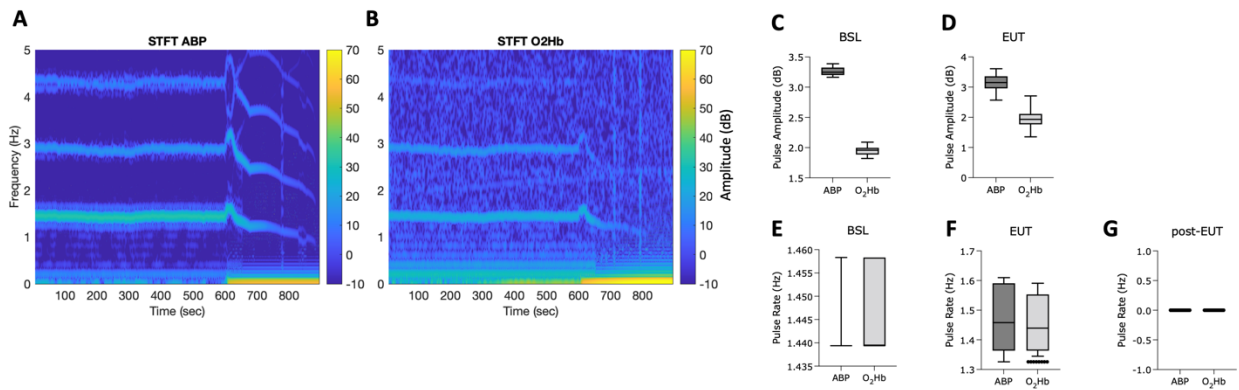


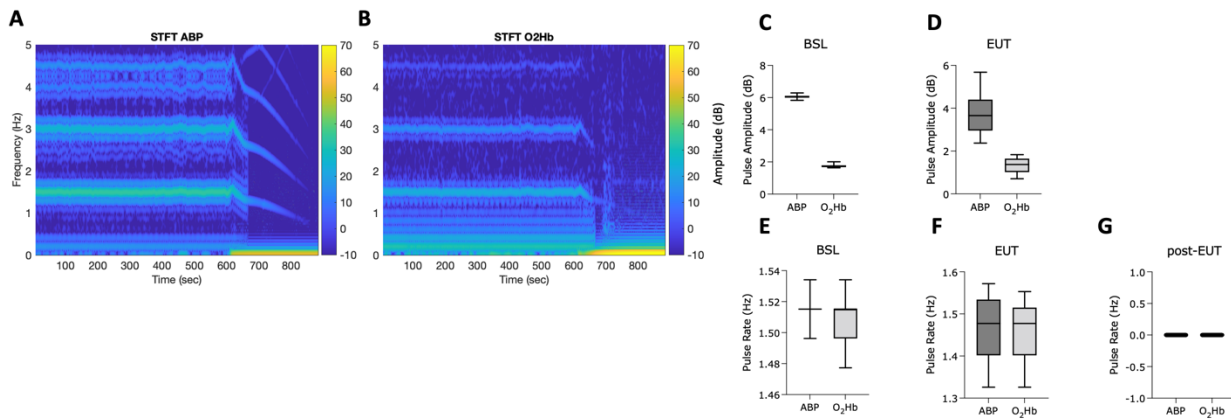
Supplementary material

STFT analysis (animal #1)



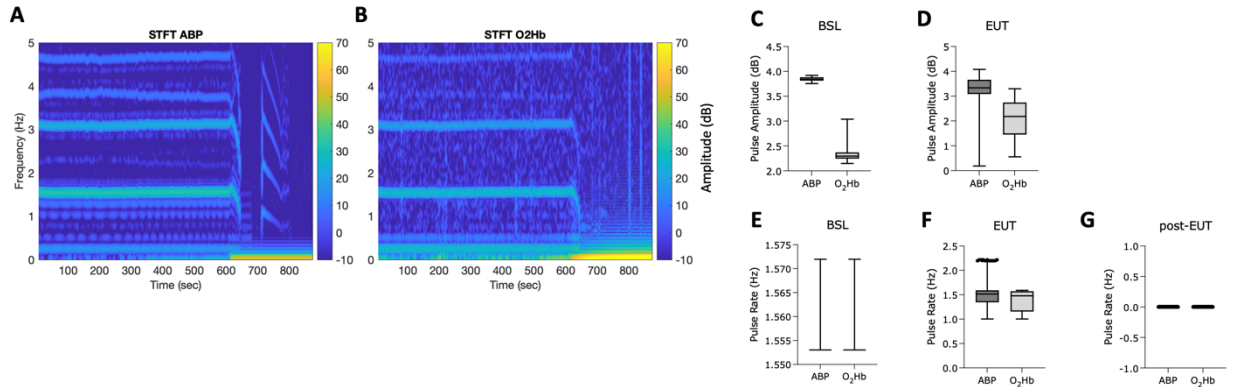
Supplementary Figure S1 STFT analysis (animal #1) of (A) carotid ABP and (B) NIRS O₂Hb signals over a 15-minute window. (C-D) Differences in the mean and variance of ABP and O₂Hb-derived pulse amplitudes (dB) and (E-G) pulse rates (Hz) at baseline, during- and post-euthanasia. O₂Hb -oxygenated hemoglobin; ABP – arterial blood pressure; BSL – baseline; EUT – euthanasia.

STFT analysis (animal #2)



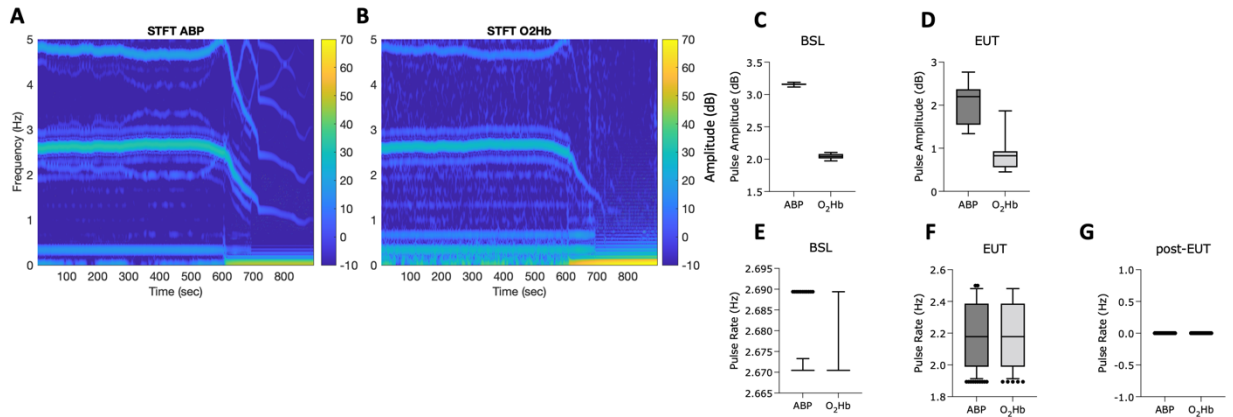
Supplementary Figure S2 STFT analysis (animal #2) of (A) carotid ABP and (B) NIRS O₂Hb signals over a 15-minute window. (C-D) Differences in the mean and variance of ABP and O₂Hb-derived pulse amplitudes (dB) and (E-G) pulse rates (Hz) at baseline, during- and post-euthanasia. O₂Hb -oxygenated hemoglobin; ABP – arterial blood pressure; BSL – baseline; EUT – euthanasia.

STFT analysis (animal #3)



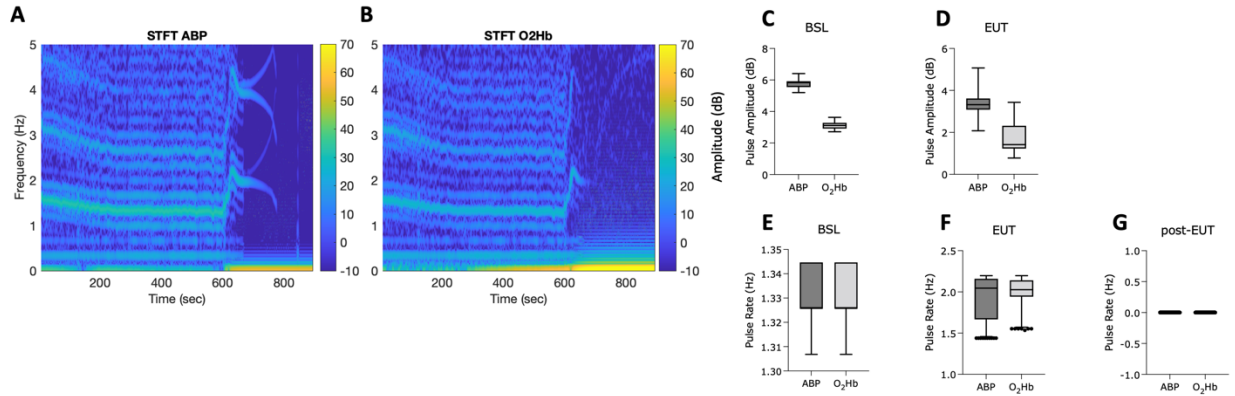
Supplementary Figure S3 STFT analysis (animal #3) of (A) carotid ABP and (B) NIRS O₂Hb signals over a 15-minute window. (C-D) Differences in the mean and variance of ABP and O₂Hb-derived pulse amplitudes (dB) and (E-G) pulse rates (Hz) at baseline, during- and post-euthanasia. O₂Hb -oxygenated hemoglobin; ABP – arterial blood pressure; BSL – baseline; EUT – euthanasia.

STFT analysis (animal #4)



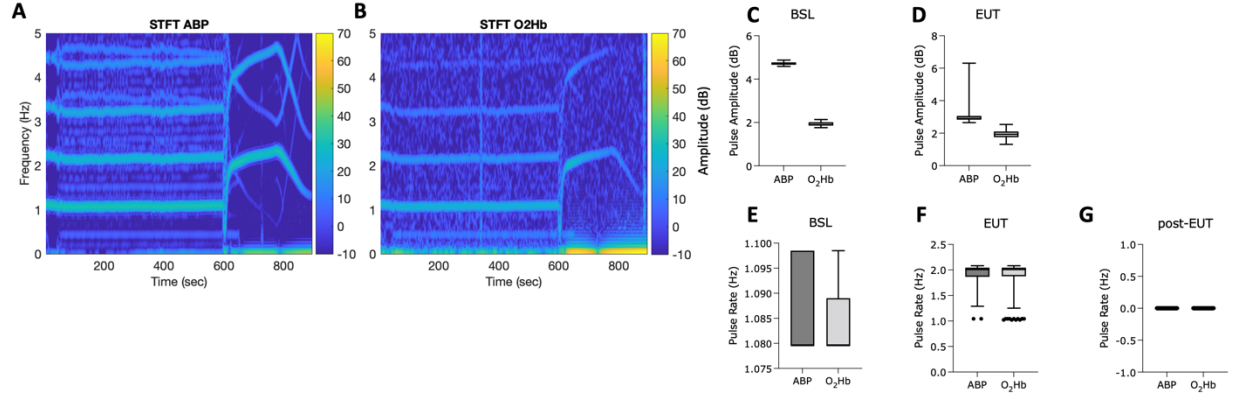
Supplementary Figure S4 STFT analysis (animal #4) of (A) carotid ABP and (B) NIRS O₂Hb signals over a 15-minute window. (C-D) Differences in the mean and variance of ABP and O₂Hb-derived pulse amplitudes (dB) and (E-G) pulse rates (Hz) at baseline, during- and post-euthanasia. O₂Hb -oxygenated hemoglobin; ABP – arterial blood pressure; BSL – baseline; EUT – euthanasia.

STFT analysis (animal #5)



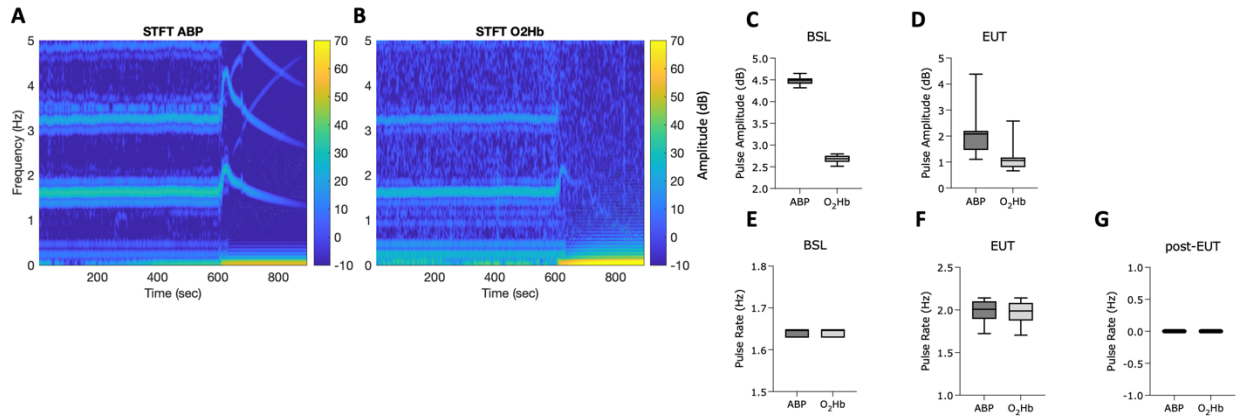
Supplementary Figure S5 STFT analysis (animal #5) of **(A)** carotid ABP and **(B)** NIRS O₂Hb signals over a 15-minute window. **(C-D)** Differences in the mean and variance of ABP and O₂Hb-derived pulse amplitudes (dB) and **(E-G)** pulse rates (Hz) at baseline, during- and post-euthanasia. O₂Hb -oxygenated hemoglobin; ABP – arterial blood pressure; BSL – baseline; EUT – euthanasia.

STFT analysis (animal #6)



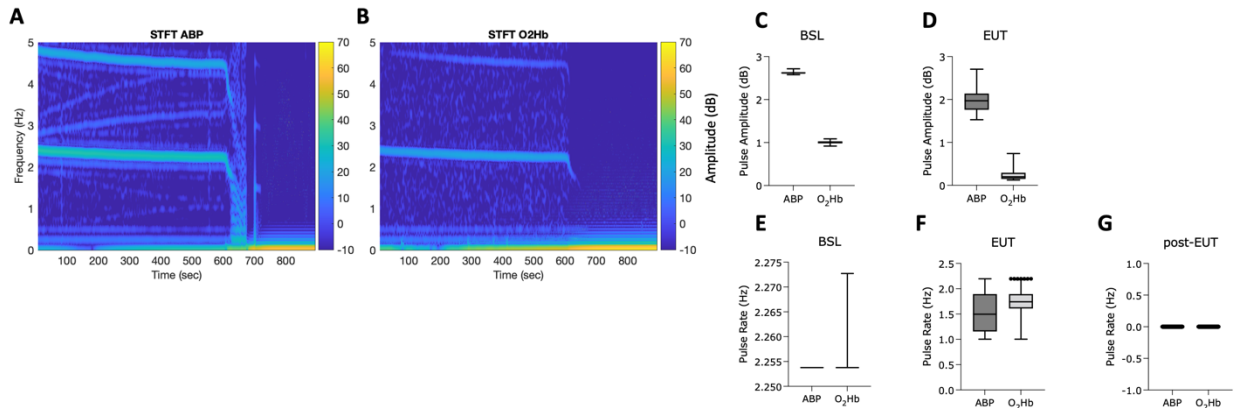
Supplementary Figure S6 STFT analysis (animal #6) of **(A)** carotid ABP and **(B)** NIRS O₂Hb signals over a 15-minute window. **(C-D)** Differences in the mean and variance of ABP and O₂Hb-derived pulse amplitudes (dB) and **(E-G)** pulse rates (Hz) at baseline, during- and post-euthanasia. O₂Hb -oxygenated hemoglobin; ABP – arterial blood pressure; BSL – baseline; EUT – euthanasia.

STFT analysis (animal #7)



Supplementary Figure S7 STFT analysis (animal #7) of (A) carotid ABP and (B) NIRS O₂Hb signals over a 15-minute window. (C-D) Differences in the mean and variance of ABP and O₂Hb-derived pulse amplitudes (dB) and (E-G) pulse rates (Hz) at baseline, during- and post-euthanasia. O₂Hb -oxygenated hemoglobin; ABP – arterial blood pressure; BSL – baseline; EUT – euthanasia.

STFT analysis (animal #8)



Supplementary Figure S8 STFT analysis (animal #8) of (A) carotid ABP and (B) NIRS O₂Hb signals over a 15-minute window. (C-D) Differences in the mean and variance of ABP and O₂Hb-derived pulse amplitudes (dB) and (E-G) pulse rates (Hz) at baseline, during- and post-euthanasia. O₂Hb -oxygenated hemoglobin; ABP – arterial blood pressure; BSL – baseline; EUT – euthanasia.