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Cerebral hemodynamic and ventilatory responses to hypoxia, hypercapnia, and hypocapnia during 5 days at 4,350 m.

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LEGENDS TO FIGURES IN ONLINE DATA SUPPLEMENT

Figure 1 online supplement. Hypoxic responses: Ventilatory (V_E , panel A), TCD (TCD CVR, panel B) and NIRS (oxyhemoglobin HbO_2 , panel C; tissue oxygenation index TOI, panel D; deoxyhemoglobin HHb, panel E; total hemoglobin $HbTot$, panel F) responses to isocapnic hypoxia at sea level (SL), at day 1 (D1) and 5 (D5) at altitude. Changes in V_E , TCD CVR and NIRS variables are expressed per % of change in arterial O_2 saturation. * significantly different from SL; + significantly different from D1.

Figure 2 online supplement. Individual hypoxic responses: Ventilatory (V_E , panel A), TCD (TCD CVR, panel B) and NIRS (oxyhemoglobin HbO_2 , panel C; tissue oxygenation index TOI, panel D; deoxyhemoglobin HHb, panel E; total hemoglobin $HbTot$, panel F) responses to isocapnic hypoxia at sea level (SL), at day 1 (D1) and 5 (D5) at altitude. Changes in V_E , TCD CVR and NIRS variables are expressed per mmHg of change in end-tidal O_2 partial pressure. Whiskers under and above the mean values (large horizontal lines) represent the 95% confident interval. * significantly different from SL; + significantly different from D1.

Figure 3 online supplement. Individual hypercapnic responses: Ventilatory (V_E , panel A), TCD (TCD CVR, panel B) and NIRS (oxyhemoglobin HbO_2 , panel C; tissue oxygenation index TOI, panel D; deoxyhemoglobin HHb, panel E; total hemoglobin $HbTot$, panel F) responses to hypercapnia (expressed per mmHg of change in end-tidal CO_2 partial pressure) at sea level (SL), at day 1 (D1) and 5 (D5) at altitude. Whiskers under and above the mean values (large horizontal lines) represent the 95% confident interval. * significantly different from SL; + significantly different from D1.

Figure 4 online supplement. Individual hypocapnic responses: TCD (TCD CVR, panel A) and NIRS (oxyhemoglobin HbO₂, panel B; tissue oxygenation index TOI; panel C; deoxyhemoglobin HHb, panel D; total hemoglobin HbTot, panel E) responses to hypocapnia (expressed per mmHg of change in end-tidal CO₂ partial pressure) at sea level (SL), at day 1 (D1) and 5 (D5) at altitude. Whiskers under and above the mean values (large horizontal lines) represent the 95% confident interval.







