

FIGURE 1. Study flow diagram.

PaCO₂: partial pressure of arterial carbon dioxide; PaO₂: partial pressure of arterial oxygen; PetCO₂: partial pressure of end-tidal carbon dioxide; RD: respiratory depression; RR: respiratory rate; SaO₂: arterial oxygen saturation.

FIGURE 2. Effect of opioid treatment in patients with advanced disease on a) partial pressure of arterial carbon dioxide (PaCO₂); b) partial pressure of end-tidal carbon dioxide (PetCO₂). E: measured on exertion; R: measured at rest.

FIGURE 3. Effect of opioid treatment in patients with advanced disease on a) partial pressure of arterial oxygen (PaO₂); b) arterial oxygen saturation (SaO₂); c) respiratory rate (RR). E: measured on exertion; N: nebulized administration; R: measured at rest; S: systemic administration.