**Supplemental Digital Content 2.**

**Appendix A. Inclusion and exclusion criteria**

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| Main inclusion criteria;  1. Age ≥45 weeks CGA to <17 years  2. Post-surgery patients: patients who required mechanical ventilation under intensive care conditions immediately following surgery, with estimated sedation duration of >6 h and ASA physical status classification (I–III) |
| Main exclusion criteria;  1. Neurological disease that can make sedation assessment difficult (investigator discretion)  2. Second- or third-degree heart block  3. Hypotension;  i. SBP <70 mmHg for age ≥45 weeks CGA to <1 year;  ii. SBP <70 + [2 × age in years] mmHg for age ≥1 year to <10 years;  iii. SBP <90 mmHg for age ≥10 years to <17 years  4. Bradycardia (≤10th percentile heart rate for healthy children as previously shown)  5. Liver dysfunction (alanine aminotransferase ≥ 100 U/L)  6. Severe infection  7. Subjects who received other study drugs within 30 days at baseline  8. Subjects who participated in another study which used the study drug during this study period |
| ASA = American Society of Anesthesiologists, CGA = corrected gestational age, SBP = systolic blood pressure. |