Goal-Directed Comfort Algorithm (Page 1 of 2 – Day of Intubation)

1. Is the patient in pain (FLACC >4)?
   - YES
     - 2. BOLUS
       - Fentanyl 1 mcg/kg/dose IV Q15 minutes until goal FLACC (max 8 doses)
     - 4. Is patient still in pain after 3 doses?
       - YES
         - 5. INCREASE BOLUS
           - Fentanyl 2 mcg/kg/dose IV Q15 minutes until goal FLACC (max 8 doses for Box 2 + Box 5)
         - 6. Is RASS still greater than goal after 3 doses?
           - YES
             - 7. INCREASE BOLUS
               - Midazolam 0.1 mg/kg/dose Q15 minutes until goal RASS (max 8 doses for Box 3 + Box 7)
           - NO
             - 8. Anticipated length of intubation?
               - LESS THAN 2 DAYS
                 - 10. PAIN/ANXIETY
                   - FLACC >4
                   - Fentanyl 1-2 mcg/kg/dose IV q 1 hour PRN
                 - 11. ANXIETY
                   - RASS > goal (default -1 to 0)
                   - Midazolam 0.05 – 0.1 mg/kg/dose IV q1hr PRN
                 - 12. If failure of intermittent doses, or decision to maintain longer duration of intubation move to BOX 13 and NOTIFY MD
               - MORE THAN 2 DAYS
                 - 13. Start Continuous Infusions with Rescue doses
                   - 14. PAIN/ANXIETY
                     - Fentanyl infusion @ 1 mcg/kg/hr
                     - ANXIETY
                       - Midazolam infusion @ 0.05 mg/kg/hr
                       - * May substitute Lorazepam 0.1 mg/kg q4 hr (max 2mg)
                   - 15. PRN RESCUE or PRE-PROCEDURAL BOLUS
                     - 1 hour dose of infusion
                       - Fentanyl 1mcg/kg/dose IV q1 hr
                       - Midazolam 0.05 mg/kg/dose IV q 1hr

Patients <40 KG

- NO
  - 3. Is RASS is more + than goal?
    - BOLUS
      - Midazolam 0.05 mg/kg/dose IV Q15 minutes until goal RASS (max 8 doses)
  - 6. Is RASS still greater than goal after 3 doses?
    - YES
      - 7. INCREASE BOLUS
        - Midazolam 0.1 mg/kg/dose Q15 minutes until goal RASS (max 8 doses for Box 3 + Box 7)
    - NO
      - 8. Anticipated length of intubation?
        - LESS THAN 2 DAYS
          - 10. PAIN/ANXIETY
            - FLACC >4
            - Fentanyl 1-2 mcg/kg/dose IV q 1 hour PRN
          - 11. ANXIETY
            - RASS > goal (default -1 to 0)
            - Midazolam 0.05 – 0.1 mg/kg/dose IV q1hr PRN
        - MORE THAN 2 DAYS
          - 13. Start Continuous Infusions with Rescue doses
            - 14. PAIN/ANXIETY
              - Fentanyl infusion @ 1 mcg/kg/hr
              - ANXIETY
                - Midazolam infusion @ 0.05 mg/kg/hr
                - * May substitute Lorazepam 0.1 mg/kg q4 hr (max 2mg)
            - 15. PRN RESCUE or PRE-PROCEDURAL BOLUS
              - 1 hour dose of infusion
                - Fentanyl 1mcg/kg/dose IV q1 hr
                - Midazolam 0.05 mg/kg/dose IV q 1hr
**Goal-Directed Comfort Algorithm**
*(Page 2 of 2 – Continuous Infusion Titration)*

**Patients < 40 KG**

16. Is the patient at their RASS and FLACC goals?

17. RASS is LESS than target, ie OVERSEDATED
   - 18. HOLD infusion to achieve RASS/FLACC target. (If on both midazolam and fentanyl, hold midazolam infusion first)
   - 19. Restart at 50% of infusion dose once at target

20. RASS is MORE than target or FLACC > 4, ie UNDERSEDATED
   - 21. PRN RESCUE
      - 1 hour dose of infusion
      - Fentanyl 1 mcg/kg/dose IV q 15min
      - Midazolam 0.05 mg/kg/dose IV q 15min

22. If patient needs > 3 boluses in 4 hours, titrate or initiate infusion

23. PAIN/ANXIETY
   - FLACC > 4
     - Increase Fentanyl infusion by 1 mcg/kg/hour q12
     - Increase PRN Rescue dose to match hourly infusion rate

24. PAIN/ANXIETY
   - Continue titration as described in Boxes 20-24
   - If patient reaches an infusion dose of Fentanyl 4 mcg/kg/hour, NOTIFY MD for further instructions

25. ANXIETY
   - RASS > GOAL
     - Increase Midazolam infusion by 0.05 mg/kg/hr q12

26. ANXIETY
   - Continue titration as described in Boxes 20-25
   - If patient reaches an infusion dose of Midazolam 0.2 mg/kg/hr
   - NOTIFY MD for further instructions

27. REASSESS GOAL RASS and FLACC
   - Q1 hour
   - Titrate accordingly