

- If infant with **"Yes"** for any **ESC** item or consistently receives **"3s"** for **"Consoling Support Needed"** perform **team huddle** with mother/parent and RN at minimum to determine **non-pharm care interventions** that can be **optimized** further. If **non-pharm care optimized** perform **full team huddle** with parent, RN and Provider. Full team huddle also recommended if **other significant concerns present**.



Morphine Initiation: Consider initiating oral **Morphine** after a **full team huddle** if:

- Continues with **"Yes"** to any **ESC** item or **"3s"** for **"Consoling Support Needed"** **OR** other concerning signs of **withdrawal present** (e.g. persistent hyperthermia, tachypnea, increased work of breathing)
- **Non-pharm care optimized to greatest extent**
- **Non-NAS causes excluded** (e.g., cluster feeding, SSRI or nicotine withdrawal in first 24 hours, pain)

As needed dose Neonatal Morphine oral solution:

- **0.05 mg/kg/dose PO** every 3 hours PRN (use birthweight for dosing)
- If at next assessment infant is eating, sleeping, and consoling well **AND** no other significant concerns present, do not give further doses of morphine

Consider scheduling Neonatal Morphine oral solution after a full team huddle if:

- **6 or more PRN doses of morphine given in last 24 hours AND**
- Continues with **"Yes"** to any **ESC** item or **"3s"** for **"Consoling Support Needed"** despite optimized non-pharm care **AND** Non-NAS causes excluded **OR** other concerning signs of withdrawal persist



Morphine Escalation: Consider increase in morphine dose after **full team huddle** if continues with **"Yes"** for any **ESC** item **OR** **"3s"** for **"Consoling Support Needed"** due to NAS despite **optimal non-pharm care**

To increase oral morphine dose:

- Give bolus dose of 0.02 mg/kg once and increase morphine baseline dose by 0.02 mg/kg/dose (e.g., baseline dose = 0.05 mg/kg/dose; new dose = 0.07 mg/kg/dose)
- Recommended maximum dose = 0.12 mg/kg/dose every 3 hrs



Morphine Weaning: Consider weaning morphine dose if **primarily "No"** for **ESC** items and **non-pharm care optimized to greatest extent**

- Initially, **wean morphine by 10% of maximum dose**
- If wean tolerated, wean by **10% maximum dose up to 3 times daily**
- **Discontinue morphine when dose is less than or equal to:**
 - a) 0.02 mg/kg/dose **OR**
 - b) dose no longer possible to measure for infant less than 2.5 kg
- Monitor infant for at least **24 hours** off morphine before discharge

Consider adding **secondary agent** if infant with **ESC "Yes"** responses despite **optimal non-pharm care AND:**

- Morphine dose maximized **OR**
 - Infant unable to wean by day 7 of treatment
- Discuss secondary agent to be used with covering attending



Failed Weaning: If after weaning or discontinuation of morphine, infant has persistent **"Yes"** responses to any **ESC** item due to NAS and **non-pharm care optimized:**

- Restart infant on last effective (or discontinuation) dose of morphine and maintain infant on that dose for minimum of 24 hours **OR**
- Attempt to **hold current dose** for up to 24 hours, particularly towards end of weaning process

