

Neonatal Abstinence Syndrome Management

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Background Information

2012-2013:

- Dr. Laudert introduced the Finnegan Scoring manual and videos to Newborn Nursery nurses that was a part of an iNICQ VON collaborative.

December 2016:

- Created a core nursing group of nurses that were interested in being primary nurses for patients with NAS.
- Gave additional education per written and on line classes to a core group of approximately 20 nurses.

January 2018:

- Collaborated with KU Newborn Services and created current protocol and treatment plans for all infants with NAS that were admitted to Wesley Medical Center.

August 2018:

- Implemented Eat, Sleep and Console.
- Implemented current protocol and treatment plan.

Scoring Criteria

- Any infant that has had a known exposure in utero
- Any infant born to a mother with limited or no prenatal care
- Any infant that presents signs of withdraw

Non-Pharmacologic Interventions

Dark quiet room

Kangaroo care

Score in the calmest state

If formula is used should be 22 kcal/oz

Breastmilk unless contraindicated

Hand containment/ Firm holding

Quiet humming

Minimize stimulation/cluster care

On demand feeds

Eat, Sleep and Console Approach

- Gestational Age greater than 35 weeks
- Oral feedings \geq 1 ounce or breastfeeding \geq 5 minutes per feeding
- If requiring IVF: Oral feedings \geq 75 ml/kg/d
- No other medical issues
- Bed placement in a single family room

Eat, Sleep and Console Approach

Can infant eat ≥ 1 ounce per feeding or breastfeed well
OR
If on IVF orally feed 75 ml/kg/day

YES

Can infant sleep ≥ 1 hour undisturbed?

YES

Can infant be consoled within 10 minutes?

YES

Infant is considered to be well managed and no further interventions are necessary

NO

NO

NO

STEP 1
Non-pharmacologic interventions increased if possible

- Feeding on demand
- Swaddling and holding
- Low-stimulation environment
- Parental presence

NO IMPROVEMENT

STEP 2

Start Morphine at 0.05 mg/kg orally every 3 hours
OR
Give one time dose of 0.05 mg/kg and reassess in 3 hours
OR
Increase scheduled dosing by 0.01 mg/kg per dose ORALLY until a maximum dose of 0.2 mg/kg/dose

Eat, Sleep and Console Approach

Escalation

Should an infant not meet all of the requirements of ESC and reaches the maximum dose of Morphine 0.2 mg/kg/dose, ESC will be discontinued.

Finnegan Scoring and treatment will begin per protocol.

Weaning

When an infant has met all 3 requirements for 24 hours without a change in dosing, begin weaning.

Wean by 0.04 mg per dose every 24 hours

Discharge

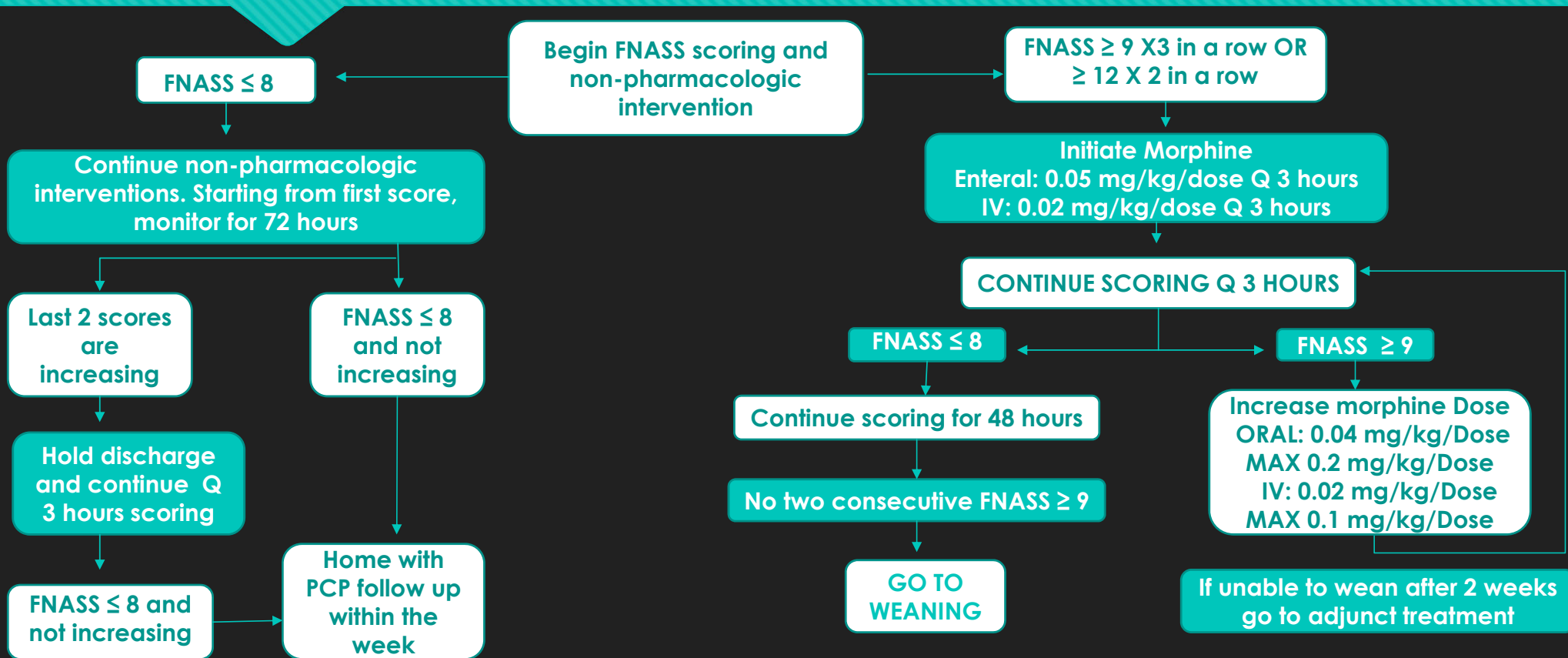
Infants that do not require pharmacologic treatment may be discharged after being monitored for 72 hours.

Infants that required pharmacologic treatment may be discharged 48 hours after the last dose.

Finnegan Scoring Approach

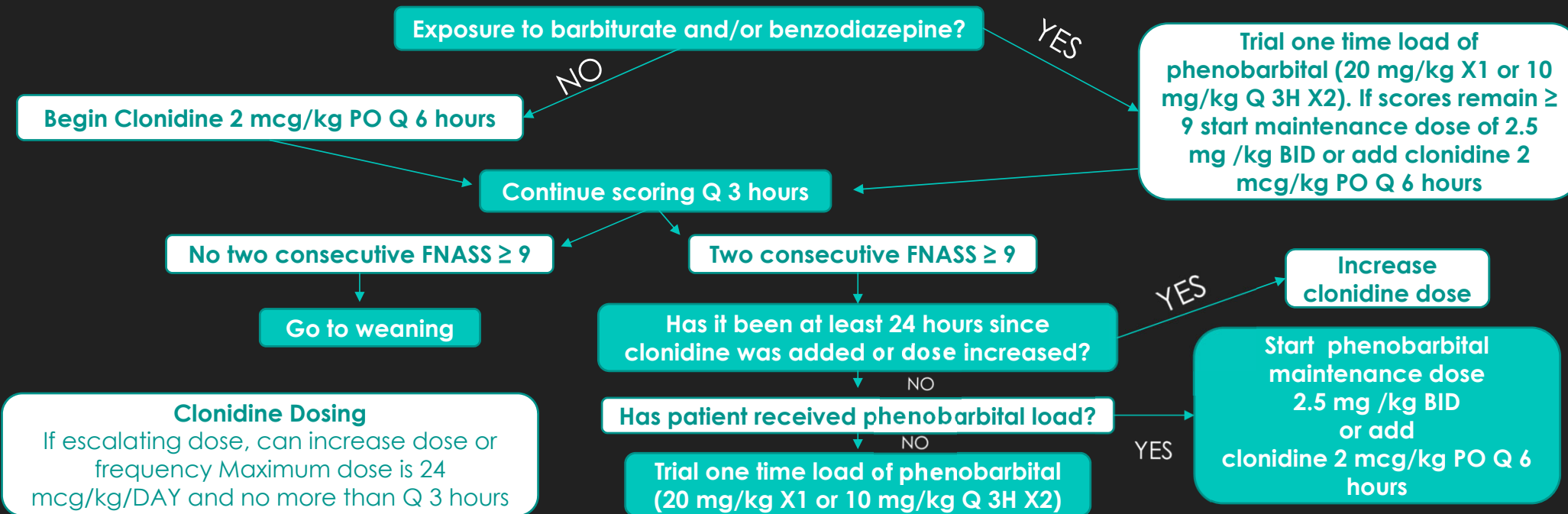
- Any infant that is admitted in the NICU
- Any infant that does not meet all of the requirements of ESC
- Any infant that fails on ESC and is on Morphine 0.2 mg/kg/dose

Finnegan Abstinence Scoring System: Initiation

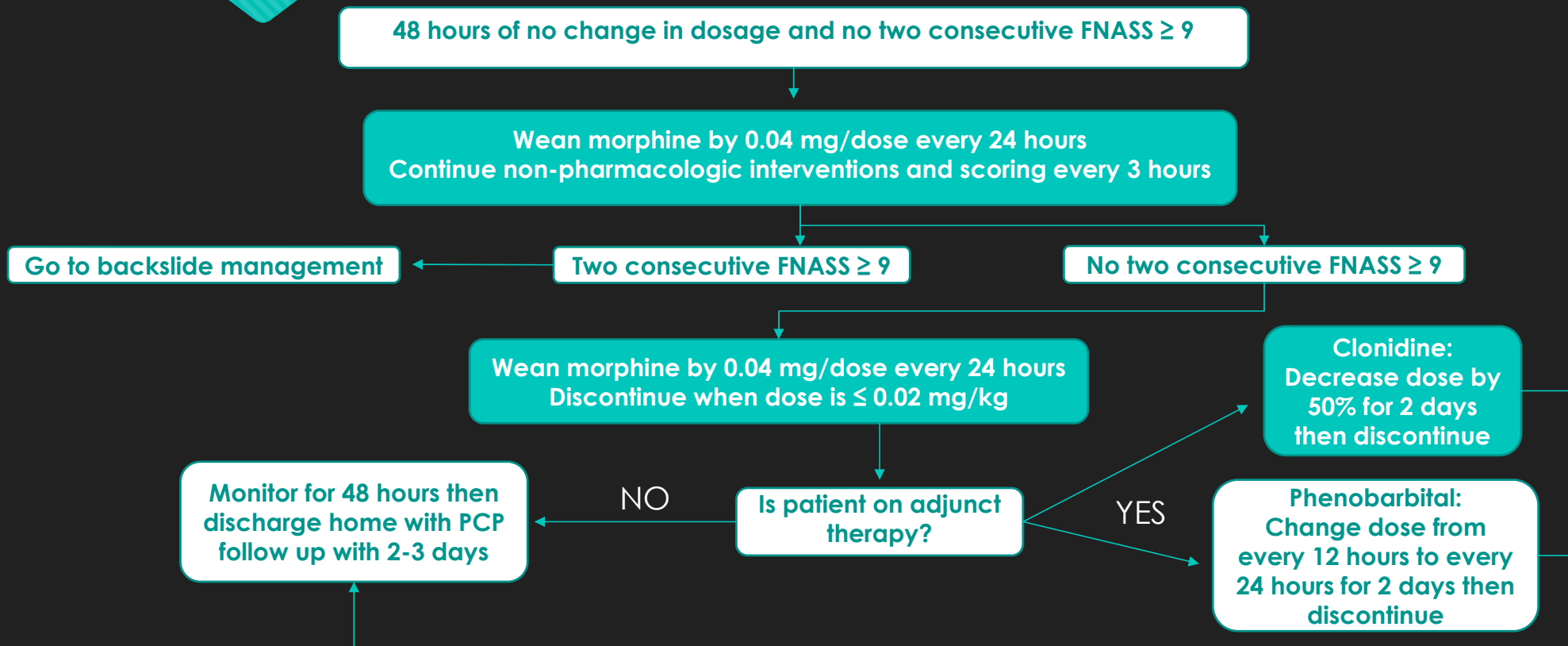


Finnegan Abstinence Scoring System: Adjunct Treatment

Adjunct therapy is indicated when there is a third backslide after initiation of therapy, the morphine dose is at 0.2 mg/kg/dose or after 2 weeks with no progress.



Finnegan Abstinance Scoring System: Weaning



Finnegan Abstinence Scoring System: Backslide Management

Ensure non-pharmacologic interventions are maximized

Two consecutive FNASS ≥ 9

First backslide?

NO

Second backslide?

NO

Go to adjunct therapy with third backslide

YES

YES

Restart morphine at 0.02 mg/kg PO Q 3 hours

Was patient off morphine and now restarted?

NO

Increase dose to previous step at which patient was stable

First time failing off of morphine?

NO

YES

Continue morphine 0.02 mg/kg PO every 3 hours for 24 hours then change to 0.02 mg/kg PO Q 6 hours for 24 hours then discontinue

Continue Morphine 0.02 mg/kg PO Q 3 hours for 24 hours then discontinue

Two consecutive FNASS ≥ 9

Increase morphine dose by 0.04 mg/kg PO Q 3 hours

No two consecutive FNASS ≥ 9 for 24 hours

No two consecutive FNASS ≥ 9

Go to weaning

Finnegan Abstinence Scoring System: Chronic Management

Use for patients > 21 days of age

