University Health System

### **Modified** Finnegan's Neonatal Abstinence Scoring Tool

Nursing Instructions			
1. Begin scoring within 2 hours of life			
<ol><li>Scores should reflect the infant's behavior for the entire</li></ol>			
period since the last score was given.			
3. If the infant scores <a>8 at the 3rd hour after the last score, re-</a>			
score within 1 hour (preferably at 30 minutes).			
4. Notify physician if 2 confirmed scores are $\geq 8$ , 1 score $\geq 12$			

or of any seizure-like activity,

5. Initiate medication if 3 consecutive scores are ≥8 or average

of 2 scores or 2 consecutive scores are  $\geq$  12.

6. If infant asleep at time of rescore, do not awaken and

document "asleep" in the rescore column.

Initiation of Mo	= 400 mcg/ml		
Category 0 1 11 11 111 1V V	<u>Score</u> 0-7 8-12 13-16 17-20 21-24 ≥25	<u>Morphine</u> none 0.10ml 0.20ml 0.30ml 0.40ml 0.50ml	= 40 mcg = 80 mcg = 120 mcg = 160 mcg = 200 mcg

\*Initial treatment dosing category should correspond to the highest score

Escalation of dose				Weaning
Two NAS scores in $\geq$ Category I, despite rescoring, warrants				1. After a 24-48 hour period of stabilization (Category 0 scores),
escalation of treatment :			Texte	weaning may be initiated.
Category	Score	New Morphine Dose		2. Morphine can be weaned by 0.05ml every 24 hours as long
I	8-12	Previous dose <mark>+0.05ml</mark>		as scores remain in Category 0.
П	13-16	Previous dose <mark>+0.10m</mark> l		3. Morphine can be discontinued when scores are stable
Ш	17-20	Previous dose+ <mark>0.15m</mark> l		(Category 0) for 24-48 hours at dose of 0.05ml.
IV	21-24	Previous dose <mark>+0.20m</mark> l		4. Two NAS scores in ≥ Category I, despite rescoring, warrants
V	≥25	Previous dose+0.25ml		re-escalation of treatment.
*Escalation dose should correspond to the highest score				5. Re-escalation doses are in general half of the initial
*Consider NICU admission if infant requires greater than 0.20mg				escalation doses (e.g. increase morphine by 0.025 ml every 3-4
(0.5ml) of morphine (0.4mg/ml) every 3 hours in order to maintain				hours for 2 scores in category I, 0.05ml for 2 scores in category
scores in Cate	gory 0.			II, and so on).
* Infants who appear somnolent and/or are difficult to arouse				6. Consider discharge if scores < 8 (Category 0) off of morphine
warrant transfer to the NICU.				for 48-72 hours.

Adapted from L. Jansson, 2009

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	Signs and Symptoms	Score	Comments
1	Cry Continuous high pitched cry Continuous high pitched cry	2 3	Crying excessively and <mark>difficult to console (25-50% time).</mark> Crying <mark>continuously</mark> despite comfort measures, i.e. pacifier, rocking (>50% time)
2	Sleep Sleep > 3 hours after feeding Sleep < 3 hours after feed Sleep < 2 hour after feed Sleep < 1 hour after feed	0 1 2 3	
3	Moro Normal <mark>Moro</mark> Reflex Hyperactive Moro Markedly hyperactive Moro	0 2 3	Excessive shoulder abduction & elbow extension, with or without tremors. Above plus marked adduction flexion at elbow with a <mark>rms crossing midline.</mark>
4	Tremors Mild tremors disturbed Mod-severe tremors disturbed Mild tremors undisturbed Mod-severe tremors undisturbed	1 2 3 4	Mild tremors, frequently in fussy/crying states & sometimes quiet, alert states. Mod-severe tremors occasionally in drowsy states, often in quiet alert states, and consistently in fussy/crying states, or consistently & repeatedly in all states Mild tremors occurring in absence of stimulation. Moderate to severe tremors occurring in absence of stimulation.
5	Tone Normal muscle tone Increased muscle tone	0 2	
6	Excoriation No Excoriation-specific area	0 1	Score as long as excoriation is present; do not score scabbed over, healing areas Diaper dermatitis → red, irritated rash starting at the anus & gradually spreads outward from loose stools. Do not score as excoriation. Diaper area excoriation → red, irritated or broken skin on either side of gluteal folds, due to excessive motor movements of the infant. Score as excoriation.
7	Myoclonic Jerks No Yes	0 3	

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8	Generalized Convulsion No Yes	0 5	
9	Sweating No Yes	0 1	Do not score for environmental factors, i.e. over-bundling Beads of sweat or moist skin
10	Fever Normal Fever 100.4-101F =38-38.3°C Fever > 101 F >38.3°C	0 1 2	
11	Yawning < 3 times/interval >3-4 times/interval	0 1	
12	Mottling (marbrure) No Yes	0 1	
13	Nasal Stuffiness No Yes	0 1	Nasal noise on breathing, +/- coryza association & not associated with illness
14	Sneezing Moderate to no sneezing Sneezing >3-4 times/interval	0 1	Either individually or continuously.
15	Nasal <mark>Flaring</mark> No nasal flaring Nasal flaring	0 2	
16	Respiratory Rate Normal (0) >60/min w/o retractions >60/min with retractions	0 1 2	
17	Excessive Sucking No Yes	0 1	Frantic rooting/sucking behaviors, and/or evidence of sucking blisters.
18	Feeding No poor feeding Yes poor feeding	0 2	Slow feed or feeds inadequate amounts unrelated to prematurity. Ineffectual and uncoordinated suck/swallow with rooting and/or sucking behaviors.

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19	Regurgitation No Yes	0 2	Effortless return of gastric/esophageal contents more frequent than normal.
20	Projectile Vomiting		
	No	0	
	Yes	3	Forceful ejection of stomach contents.
21	Stools		
	Normal	0	
	Loose	2	Loose stools without water ring.
	Watery	3	Loose stools with water ring.
	No first stool	0	

Adapted from:

AAP

Jansson L, Velez M, Harrow C. The opioid exposed newborn: Assessment and pharmacologic management. J Opioid Manag 2009; 5(1):54.

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