

Sickle Cell Pain Pathway

ED

Screen For:

- Last pain medications at home
- Last pain episode
- Severe or atypical HA
- Altered mental status
- Focal neurological findings
- New seizures
- Stroke
- Acute Chest Syndrome (ACS)
 - Chest pain
 - Cough
 - Fever
 - Hypoxia
 - Lung infiltrates

Sickle Cell Disease patient with pain
Exclusion criteria: trauma, stroke, sepsis

Triage Level 2

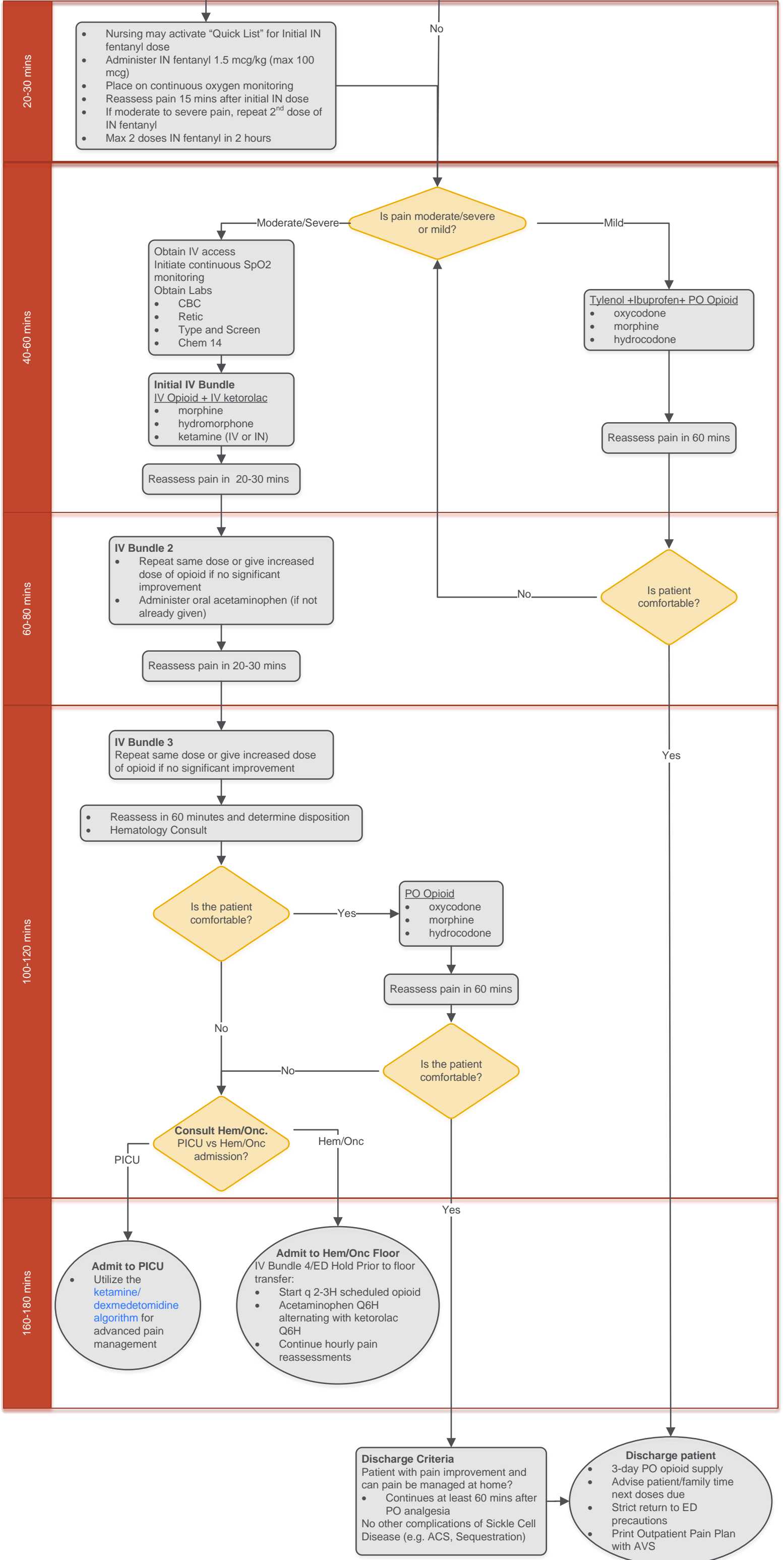
Inclusion Criteria for IN Fentanyl:

- Known diagnosis of Sickle Cell
- No Fentanyl allergy
- SpO2 > 92%
- No fever
- Patient weight > 13 kg

Ω See Appendix A for medication dosing recommendations

Ψ See Appendix B for Pain Scales

Triage Start Time



Sickle Cell Pain Pathway

ED Appendix A Ω & Appendix B Ψ

Ω Appendix A
Medication Dosing Chart

Medication	Route	Administration	Dose	Comment
Acetaminophen	PO		15 mg/kg q 4-6 hrs	MAX DOSE -1000 mg q6 MAX DAILY -4000 mg
Dexmedetomidine	Cont IV		0.5 mcg/kg/hr	
Fentanyl	IN	With atomizer Use 1 syringe, add 0.1 mL extra to prime. Administer half of volume into each nostril	1.5 mcg/kg	Onset 5-10 mins. MAX DOSE -100 mcg/dose MAX VOLUME - 1 mL/nare
Hydrocodone	PO		< 50 kg -0.2 mg/kg/dose ≥ 50 kg -5-10 mg/dose	Dosing every 4-6 hours Ordered per hydrocodone component Consider recent acetaminophen
Hydromorphone	IV		>6 months of age AND >10kg- 0.01mg/kg/dose	Dosing for children over 6 months ONLY MAX -1 mg
Ibuprofen	PO		10 mg/kg q 4-6 hrs	MAX DOSE -800 mg MAX DAILY -2400 mg
Ketamine	IN	One time admin	0.25 mg/kg	Onset within 10 mins
	IV		0.25 mg/kg	Onset within 30 seconds No MAX dose recommendation
	Cont IV	Can bolus x1 up to 15 mg	0.1-0.5 mg/kg/hr	Recommend starting dose of 0.15 mg/kg/hr MAX -15 mg/hr
Ketorolac	IV	IVP 2-3 mins	< 50 kg - 0.5 mg/kg/dose MAX 15 mg ≥ 50 kg -30 mg/dose	Do not give second dose of ketorolac if patient has completed a 5-day course of ketorolac within 1 week.
Morphine	IV	Slow IVP over 5 mins	0.1 mg/kg/dose	MAX -6 mg/dose
	PO		≤ 6 months -0.1 mg/kg/dose < 50 kg -0.15-0.3 mg/kg/dose ≥ 50 kg -10-20 mg/dose	MAX -dose 20 mg
Oxycodone	PO		Infants ≤ 6 mo -0.025-0.05 mg/kg/dose < 50 kg -0.1-0.2 mg/kg/dose ≥ 50 kg -5-10 mg/dose MAX 20 mg	

Ψ Appendix B

Pain Scales

	N-Pass-Revised Score	rFLACC Scale Score	FACES-R Scale Score	Numbers Scale Score
Parameters	Birth to 36 months, All NICU patients	Ages 2 months - 7 years & children with cognitive impairment	Ages 4-16	Ages 10 and older
Relaxed and Comfortable	0-3*	0	0	0
Mild Discomfort/pain	3-6*	1-3	2-4	1-3
Moderate Pain	6-8*	4-6	4-6	4-6
Severe Pain	9-11*	7-10	8-10	7-10

* Prematurity impacts perception of pain at 30 weeks gestation or less.

For patients 30 weeks gestation or less, add 1 point to each section's baseline score.