

CLINICAL GUIDELINES

Arranged by system, and then alphabetical.

General	
Consultations	.3
Guideline Guideline	.4
Process to Update the EHR to Match Guidelines	6
Critical Care & Emergency Medicine	
Acetaminophen Overdose (Adult and Pediatric)	.7
Acute Coronary Syndrome (MI)	8
Burns (Adult and Pediatric).	. 12
Cerebrovascular Accident	.13
Death Protocol	.16
Frostbite (Adult and Pediatric)	19
Head Injury (≥18 years)	.21
Head Injury/Concussion (<18 years)	. 22
High-Flow Nasal Cannula (Pediatric)	
Hypothermia	.24
Intubation (Adult and Pediatric)	.25
Intubated Pediatric Patients: ET CO ₂ Monitoring	. 28
Massive Transfusion Protocol (≥14 years)	
Medevac Activation: Village to YKHC	
Medevac Activation: YKHC to Anchorage	
Military Transport for Emergencies.	
Pediatric Medevacs: Bethel to Anchorage	
Procedural Sedation & Analgesia Outside the OR	
Respiratory Distress & Bronchiolitis Management (<5 years)	
Seizure Evaluation (Pediatric)	
Sepsis (Adult)	
Sepsis Medications (Adult)	
Sepsis (Pediatric)	
Spinal Cord Injury Management	
Status Epilepticus Treatment (Adult)	
Status Epilepticus Treatment (Pediatric)	
Strangulation	
Trauma Outside Bethel	. 51
Villages without Health Aides	
Adult Critical Care Guide:	
https://yk-health.org/images/9/98/Adult_Critical_Care_Guide.pdf	
Pediatric Critical Care Weight-Based Guide: https://yk-health.org/images/5/5d/Pediatric_critical_care_guide.pd	f
Abuse/Assault	
Sexual Assault (≥18 Years)	. 54
Suspected Physical Abuse Procedure (Pediatric)	55
Suspected Sexual Abuse Procedure (Pediatric)	56
Endocrine	
Diabetes, Type 2	57
Pediatric Endocrine Protocols	. 59

CLINICAL RESOURCE BOOK Table of Contents, page 1

Gastrointestinal

Convertion Convertion Convertion Convertion Convertion	~				
Congenital Sucrase-Isomaltase Deficiency Resource					
Dyspepsia/H pylori (Adult and Pediatric)					
Hematologic					
Iron Infusion for Chronic Iron-Deficiency Anemia (Adult and Pediatrics)	2				
Infectious Disease	_				
Amoxicillin Allergy Trials (Pediatric)	3				
Botulism	4				
Bronchiectasis/Chronic Cough (<18 years)65	5				
COVID: Molnupiravir, Emergency Use	ô				
COVID: Paxlovid	7				
Croup/Stridor (6 months - 3 years)	8				
Fever (0-90 days)	9				
Hepatitis C – dick here for management recommendations.					
Influenza (Adult and Pediatric)70	0				
Lymphadenitis, Acute Cervical (Pediatric)7	1				
Meningitis: Use of Dexamethasone72	2				
Mpox: Emergency Use of Tecovirimat73					
Multisystem Inflammatory Syndrome (MIS-C)74	4				
Otitis Media, Acute (3 months - 12 years)	5				
Peritonsillar Abscess	6				
Pharyngitis (Adults and Pediatric)	7				
Pneumonia (Adult)78	8				
Pneumonia Treatment (3 months - 18 years)79	Э				
Rabies Prevention	С				
Septic Arthritis and Osteomyelitis, Suspected (Pediatric)	1				
Sexually Transmitted Infections	2				
Sinusitis (4 – 18 years)	5				
Skin and Soft Tissue Infection (Adult and Pediatric)86	6				
Tuberculosis, Active Pulmonary (≥14 years)	8				
Tuberculosis, Latent (≥14 years)	Э				
Tuberculosis Evaluation and Treatment (<14 years)	0				
Tuberculosis Testing: Induced Sputum Collection	1				
UTI (Adult)	2				
UTI (3 months - 5 years)	3				
Varicella, Suspected	4				

Neonatal/Pediatric Growth & Development

Caffeine Protocol, Post-NICU Discharge	95
Failure to Thrive in Children <24 Months	96
Hip Exam and Surveillance in Infants	98
Jaundice in a Baby <4 Weeks	99
Late Preterm & Low Birth Weight Infants, Care of	100
mPEWS Protocol for Pediatric Patients	101
Neonatal Nasal CPAP Set-Up Guide	102
Newborn Early-Onset Sepsis/GBS	104
Neonatal Glucose Screening	105
Neonatal Resuscitation Summary	106
Neopuff [™] Set-Up Guide	108
Surfactant Administration Protocol	110
Therapeutic Hypothermia for Neonatal Hypoxic-Ischemic Encephalopat – <u>PAMC NICU protocol</u>	hy
Village Deliveries	111

Obstetrics Anemia in Pregnancy......112 Aneuploidy......113 Ectopic Pregnancy Treatment......115 First Trimester Vaginal Bleeding......116 Group B Streptococcus (Maternal)......118 HIV Screening and Prenatal Care.....119 Hypertension in Pregnancy, Chronic...... 120 Hypertension, Gestational/Preeclampsia......121 Hypertension in Pregnant and Postpartum Patients, Severe......122 Molar Pregnancy...... 128 Postpartum Hemorrhage......131 Rhogam[®].....137

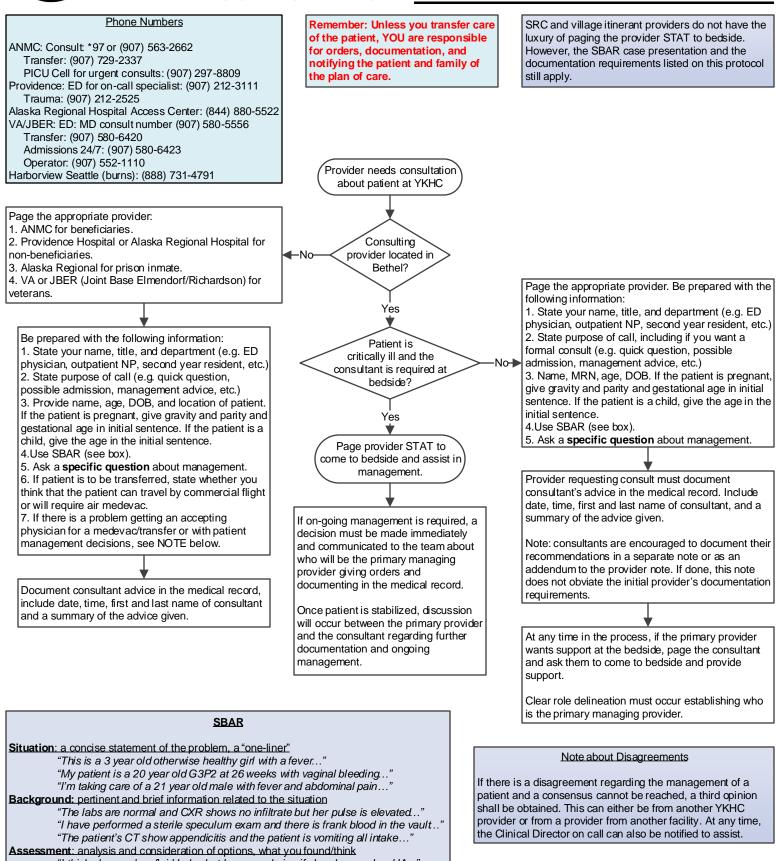
CLINICAL RESOURCE BOOK Table of Contents, page 2

Preventative Health Care & Outpatient Protocols

reventative realition of a outpatient revociois
Amoxicillin Allergy Trials (Pediatric)139
Breast Cancer Screening140
Chronic Pain: Narcotic Treatment Eligibility
Chronic Pain, Follow-up142
Hyperlipidemia 143
Hypertension144
Lead Evaluation (Pediatric)145
Nirsevimab 2023-2024 Season146
Primary Care for Ex-Premies – Checklist
Primary Prevention of Cardiovascular Disease148
Sports Clearance for Pediatric Patients with History of COVID-19 149
Osteoporosis Screening and Treatment 150
Pre-anesthesia Management153
Wound Care Supplies155
Psychiatry
Alcohol Hangover/Withdrawal158
Attention Deficit Hyperactivity Disorder (Pediatric)

Attention Deficit Hyperactivity Disorder (Pediatric)	159
Care of an Agitated or Aggressive Patient on Inpatient or DES	160
Intoxicated Patient	
Involuntary Psychiatric Admissions	162
Psychiatric Admissions (General)	
Documentation	
Care Conference Checklist	
DME Documentation Requirements	165
Incontinence Supplies Documentation Requirements	
Nutritional Supplements, Documentation Requirements	167





"I think she needs a fluid bolus but I am wondering if she also needs a UA ..."

"I think this patient might have an active abruption..."

"I think this patient has appendicitis and needs to be transferred to ANMC.." Recommendation: action requested, what you want

"I want your opinion on how much fluid and the need for a UA..."

"I want you to come in and assess this patient in person..."

"I would like to transfer this patient via medevac to ANMC..."

This protocol is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 8/23/23. Click here to see the supplemental resources for this guideline. If comments about this protocol, please contact Ellen_Hodges@ykhc.org.



Treatment Protocol Pediatric Consults

EMERGENT Consults

- · Need a call back immediately.
- Examples: Child is in status epilepticus or impending respiratory failure.

 Send priority message via Tiger Connect to Peds Wards on Duty using format below.

URGENT Consults

- Need a call back within one hour.
- Examples: Advice on antibiotic choice or questions about a rash.

Send message via Tiger Connect to Peds Wards on Duty using format below.

NOTE: If true emergency, limit

message to #2 and #4.

NOT URGENT Consults

· Question can wait until the end of the day/next morning.

• Examples:

- "Noted that weight percentile has decreased by >2 major percentiles on weight growth chart. Forwarding note to pediatrician for recommendations on further work-up and management for failure to thrive."

- "During this WCC, reviewed PMH and noted child has not seen neurologist in several years and is off anti-epileptics. Forwarding note to pediatrician for recommendations on further management of seizure disorder."

• Do not send a message via Tiger Connect.

Complete note and forward to "Chronic Peds, RMT" box via Message Center. Note MUST include a specific question for the pediatrician in the plan.
Note reviewed by inpatient pediatrician, who will addend the note with recommendations and send it back. It will be addressed with the same triage principles we use to prioritize RMT. Goal will be response by the end of the day, but if there is critical care, the night pediatrician will address it by the next moming.

Tiger Connect Message Format for EMERGENT and URGENT Consults

1. Urgency of consult: need call back ASAP or within one hour.

2. Name of provider, location, role, and phone number.

3. Name and MRN/DOB of patient.

- 4. One-liner about patient. Here are some examples:
 - "4 yo girl with h/o seizures here for prolonged seizure."
- "3 month old boy with h/o respiratory failure requiring ICU care here with increased work of breathing."
- 5. Specific question. Here are some examples:
 - (EMERGENT) "The seizure is now >5 minutes and needs medication to stop it. What drug and dose should I give?
 - (EMERGENT) "This child has a RR of 80 and hasn't improved with albuterol or nasal suction. I would like to discuss if a medevac is appropriate."
 - (URGENT) "I think this child needs antibiotics, and I'd like to discuss an appropriate choice."
- (URGENT) "This child may require further evaluation in Bethel, and there is a commercial flight landing in two hours. I'd like to discuss whether the child should be sent to Bethel on that flight."

How to Send a Priority Mes	ssage i	n Tiger Connect	
Click the exclamation point to the left o	of the m	essage box. It will t	urn red.
		Priority Message: On	
Sengrg as:			
() 🕂 Type message here			

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Clinical Guideline

Guideline Guideline

Miscellaneous Topic identified for new guideline OR Goal is guidelines are to be reviewed every Guideline due for an update/revision two years with revisions and updates as appropriate. Updates may happen sooner as needed. A member of the clinical staff is identified to be the · If a guideline has not been reviewed in the point person for the new guideline/revision. past five years, it will be decommissioned until it is revised. Deadlines for feedback will generally be a period of two weeks. The point person works on the • At any time, anyone may send feedback on a guideline in partnership with a member guideline. This feedback will be saved for the of the Clinical Guideline Committee. next guideline revision. • Minor changes including (but not limited to) correction of typos, changes in test names, When a draft has been completed, the small additions, updating hyperlinks, and pdf is sent to a small group of changes in contact information may be made and published without committee approval. interested parties. Feedback is gathered, and revisions are made. The next draft is sent to the entire medical staff as well as other clinical groups (including pharmacy, RT, and nursing), as appropriate.

Feedback is gathered, and revisions are made.

Final draft is approved by Clinical Guidelines Committee.

Date of approval is recorded on the auideline, which is published on the wiki and in the Clinical Resource Book.

Final draft is emailed to medical staff and interested parties with description of new/ updated guidelines.

Wiki Supplements • The long-term goal for the guidelines is for every guideline to have a corresponding supplement page on the wiki. • The guideline will be information needed to take care of a patient in the moment. • The wiki supplement will include references, resources, historical background, past versions, and other information.

This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved 6/6/22.

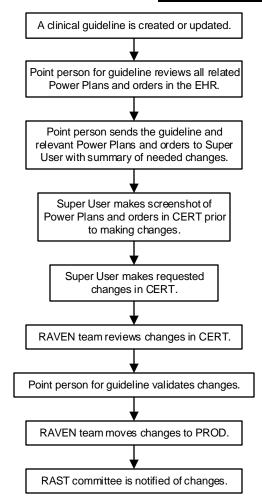


Clinical Guideline

Process to Update the EHR to Match Guidelines

Contact

If any members of the medical staff identify orders that are discrepant with an approved clinical guideline, they should email Clinical_Guidelines@ykhc.org. The Clinical Guideline Committee will review the request and begin the process outlined here.



Rationale • The YKHC Clinical Guidelines are the agreed-upon standard of care for the YKHC medical staff. • This standard of care should be reflected in the available orders and Power Plans in the EHR. • As such, if orders in the EHR do not match a clinical guideline, these orders may be changed without getting approval from the RAST committee. The RAST committee will be notified of these changes. This guideline outlines the process by which EHR changes based on updates in clinical guidelines may be made.

Definitions

• CERT: domain for testing changes to the EHR. PROD: Live domain used by staff to access the EHR.

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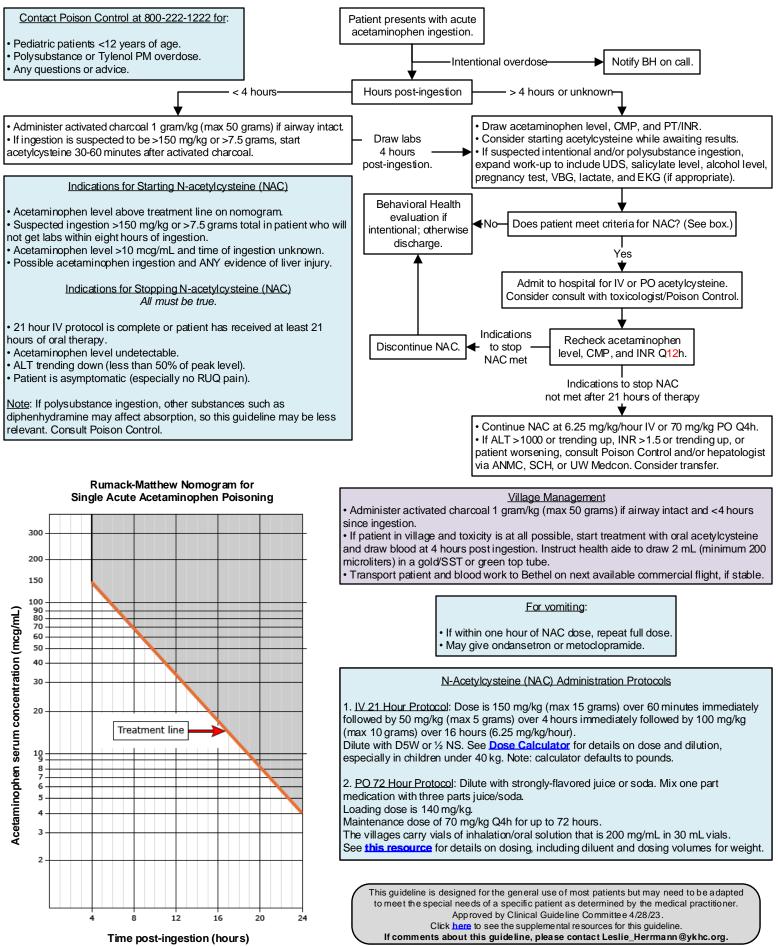
6

Vukon-Kuskokwim

Clinical Guideline

Acetaminophen Overdose (Adult and Pediatric)

7

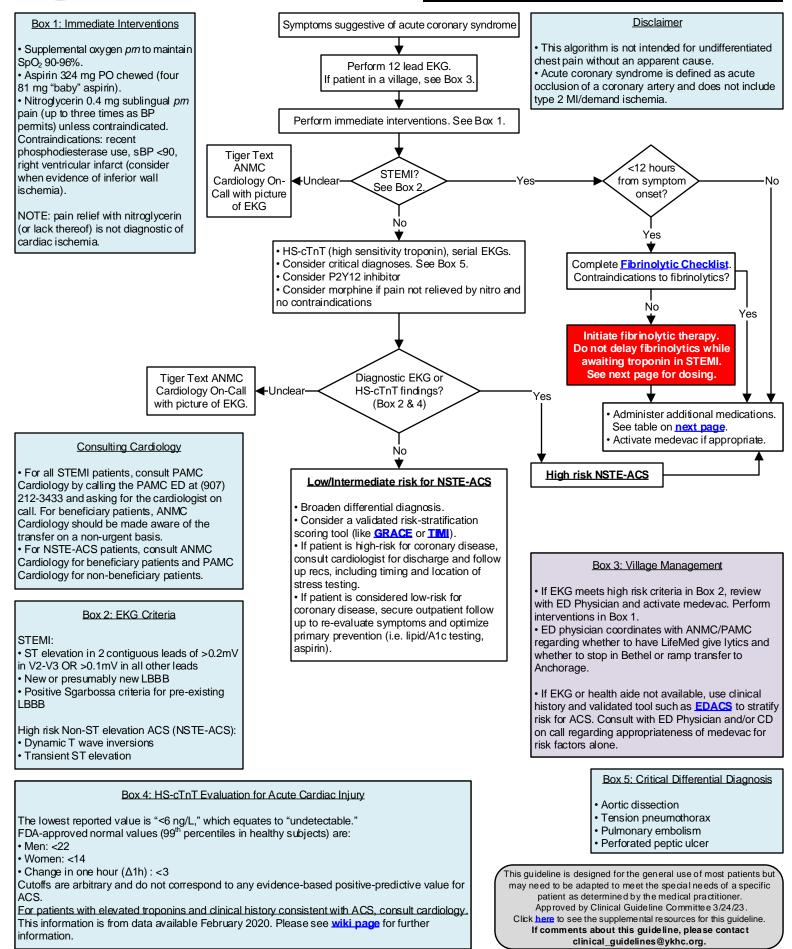




Yukon-Kuskokwim

Clinical Guideline

Acute Coronary Syndrome (ACS) Management





asthma. <u>Cautions</u>: risk for

cardiogenic shock

age>70, in creased time since STEMI

onset), inferior MI,

controlled asthma.

(bradycardia, HR>110, sBP<120,

Yukon-Kuskokwim HEALTH CORPORATION

Acute Coronary Syndrome (ACS) Management

Oxygen → Nitrates (<i>prn</i> pain, HTN) Fibrinolytic Aspirin	Tenecteplase See below. Aspirin 324 mg PO chewed	STEMI >12 hours Maintain SpO ₂ 90-96% Sublingual or drip Not indicated Aspirin 324 mg PO chewed	NSTE-ACS Maintain SpO ₂ 90-96% Sublingual or drip Not indicated Aspirin 324 mg PO chewed
→ Nitrates (<i>prn</i> pain, HTN) Fibrinolytic	Sublingual or drip Tenecteplase See below. Aspirin 324 mg PO chewed	Sublingual or drip Not indicated	Sublingual or drip Not indicated
Fibrinolytic	Tenecteplase See below. Aspirin 324 mg PO chewed	Not indicated	Not indicated
	See below. Aspirin 324 mg PO chewed		
Aspirin		Aspirin 324 mg PO chewed	Aspirin 324 mg PO chewed
\$	(four 81 mg "baby" aspirin)	(four 81 mg "baby" aspirin)	(four 81 mg "baby" aspirin)
Aspirin SC B P2Y ₁₂ receptor blocker	Clopidogrel Age ≤75: 300 mg PO Age >75: 75 mg PO	Clopidogrel 600 mg PO	Consult cardiology.
Anticoagulation	Enoxaparin (see table for dose)	Enoxaparin (see table for dose)	Enoxaparin (see table for dose)
Beta-blocker	Metoprolol 5 mg IV <i>pm</i> Q5 minutes (max 15 mg)	Metoprolol 5 mg IV <i>pm</i> Q5 minutes (max 15 mg)	Metoprolol 5 mg IV <i>pm</i> Q5 minutes (max 15 mg)
Morphine	0		2
	Anticoagulation Beta-blocker 	blocker Age ≤ 15:300 mg PO Age >75:75 mg PO Anticoagulation Enoxaparin (see table for dose) Beta-blocker Metoprolol 5 mg IV pm Q5 minutes (max 15 mg) Morphine No longer rou Reserve for si	blocker Age \$73,300 mg PO Clopidogrei 800 mg PO Age \$75;75 mg PO Anticoagulation Enoxaparin (see table for dose) Anticoagulation Enoxaparin (see table for dose) Enoxaparin (see table for dose) Beta-blocker Metoprolol 5 mg IV pm Q5 minutes (max 15 mg) Metoprolol 5 mg IV pm Q5 minutes (max 15 mg)

Goal: administer \leq 30 minutes from arrival. Rapidly complete the fibrinolytic checklist and consent.

Dosing:

• <60 kg: tenecteplase 30 mg IV bolus</p>

• ≥60 kg to <70 kg: tenecteplase 35 mg IV bolus

• ≥70 kg to <80 kg: tenecteplase 40 mg IV bolus

• ≥80 kg to <90 kg: tenecteplase 45 mg IV bolus

• ≥90 kg: tenecteplase 50 mg IV bolus

Administer concurrent aspirin, clopidogrel, and anticoagulant therapy, per table above.

Enoxaparin Dosing			
	Age <75 years and STEMI	Age ≥75 years and STEM	Any age and NSTE-ACS
Creatinine clearance ≥30 mL/min	30 mg IV + (1 mg/kg SC now then Q12h) Max dose 100 mg	0.75 mg/kg SC Q12h Max dose 75 mg	1 mg/kg SC now then Q12h
Creatinine clearance <30 mL/min	30 mg IV + (1 mg/kg SC now then Q24h) Max dose 100 mg	1 mg/kg SC Q24h Max dose 100 mg	1 mg/kg SC now then Q24h
NOTE: Enoxaparin and unfractionated heparin are NOT dialyzable; ESRD/dialysis patients should receive fondaparinux, which is not on the YKHC formulary. Discuss with cardiologist if appropriate.			

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Yukon-Kuskokwim Clinical Guideline HEALTH CORPORATION Acute Coronary Syndrome (ACS) Management

Fibrinolytic Checklist					
INDICATION	S (initial yes or n	o)			
YES	NO				
		Presentation consistent with acute coronary syndrome (coronary artery occlusion)			
		AND at least one of the following: • 1 mm J-point elevation in two contiguous leads (other than V ₂ -V ₃) • In leads V2-V3 Men ≥ 40 years: ≥ 2 mm J-point elevation Men <40: ≥ 2.5 mm J-point elevation Women: ≥ 1.5 mm J-point elevation			
ABSOLUTE CONTRAINDICATIONS (initial yes or no)					
YES	NO				
		History of any intracranial hemorrhage			
		History of prior ischemic stroke, significant closed head injury or facial trauma, or intracranial or spinal surgery in the previous three months			
		Presence of a cerebral vascular malformation			
		Presence of a primary or metastatic intracranial malignancy			
		Symptoms or signs suggestive of an aortic dissection			
		Any bleeding diathesis			
		Any active bleeding that is severe or has high potential for life-threatening blood loss; this does not include menstrual bleeding			
		sBP > 180 and/or dBP >110 at presentation in patient at low risk of cardiac death (age < 55, no prior MI, and Killip class I).			
		Terminal illness, defined as end of life care or documented/expressed patient wish to abstain from high risk or invasive procedures			
RELATIVE C	ONTRAINDICAT	IONS (initial yes or no) – If any of below are present, used shared decision making with patient.			
YES	NO				
		Age 65-74 (ICH relative risk 3.12 [2.54-3.83]); Age ≥ 75 years (ICH relative risk 5.40 [4.40-6.63])			
		History of chronic severe poorly controlled HTN			
		sBP > 180 and/or dBP >110 at presentation in patient at high risk of cardiac death (age \geq 55, Hx prior MI, or <u>Killip class \geq II).</u>			
		History of ischemic stroke more than three months ago			
		Dementia OR any known intracranial disease that is not an absolute contraindication			
		Traumatic or prolonged (>10 minutes) cardiopulmonary resuscitation			
		Major surgery in the previous three weeks			
		Internal bleeding in the previous 2-4 weeks			
		Active peptic ulcer			
		Non-compressible vascular punctures			
		Pregnancy			
		Current warfarin therapy (the risk of bleeding increases as the INR increases)			

This checklist is advisory for clinical decision-making and may not be all-inclusive. Risks and benefits will need to be assessed individually.

Physician signature: _

Printed name:

_ Date and time: _

Place patient ID sticker here.



Acute Coronary Syndrome (ACS) Management

PROCEDURE CONSENT I hereby authorize and such assistants as he/she may designate, to perform the following operation or procedure: **TECHNICAL DESCRIPTION** Intravenous thrombolytic therapy for acute STEMI (ST-elevation myocardial infarction). LAY DESCRIPTION Give clot-dissolving medication through an IV to dissolve the clot which is causing a heart attack. has discussed with me the information briefly summarized below: BENEFITS • When PCI is not available within two hours, thrombolytic medication is the "standard of care" for achieving coronary reperfusion within 12 hours of acute STEMI onset. • When administered within 6 hours of pain onset, about 1 in 40 persons will have their life saved. • When administered between 6-12 hours after pain onset, about 1 in 60 persons will have their life saved. Decreased risk of developing heart failure. • A STEMI patient who receives thrombolytic medication is about 3-5 times more likely to have their life saved than to have brain bleeding (see below). RISKS About 1 in 100 persons will experience non-life-threatening bleeding. (some, but not all) • About 1 in 100-250 persons will experience bleeding into the brain which usually results in either death or significant disability. **RISKS OF NOT HAVING THE** Higher risk of death. **PROCEDURE** • Higher risk of developing heart failure. ALTERNATIVE TREATMENTS None are available at this facility.

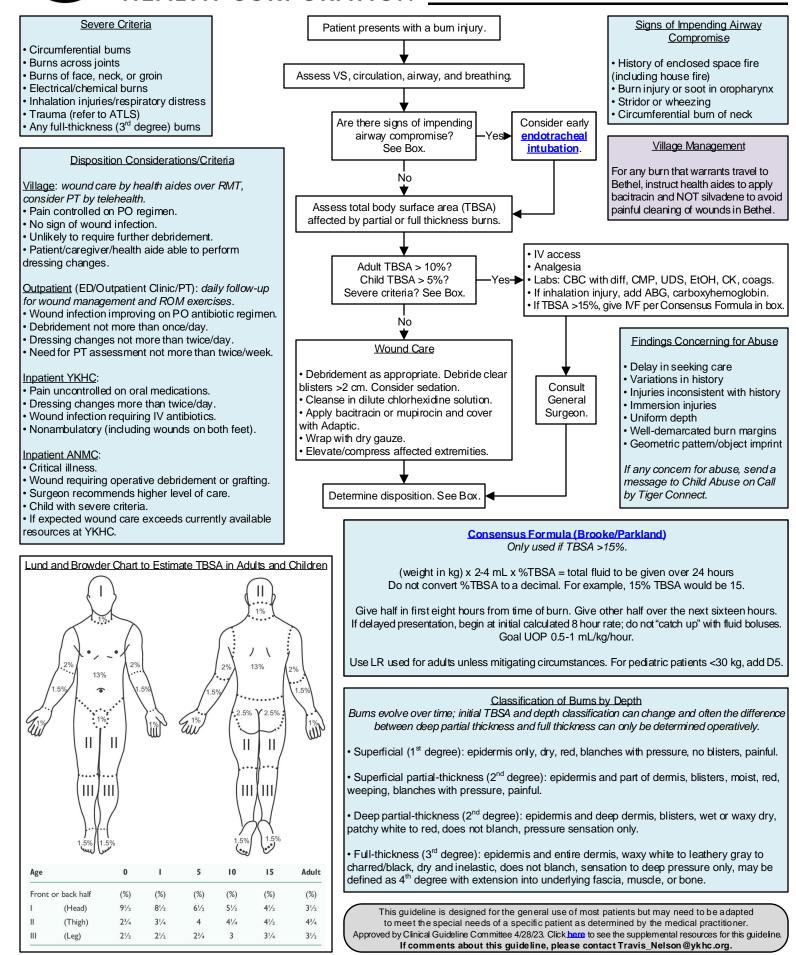
Patient signature:	Witness signature:	
Printed name: Date and time:	Printed name:	Date and time:
Physician signature:	Witness signature:	
Printed name: Date and time:	Printed name:	Date and time:

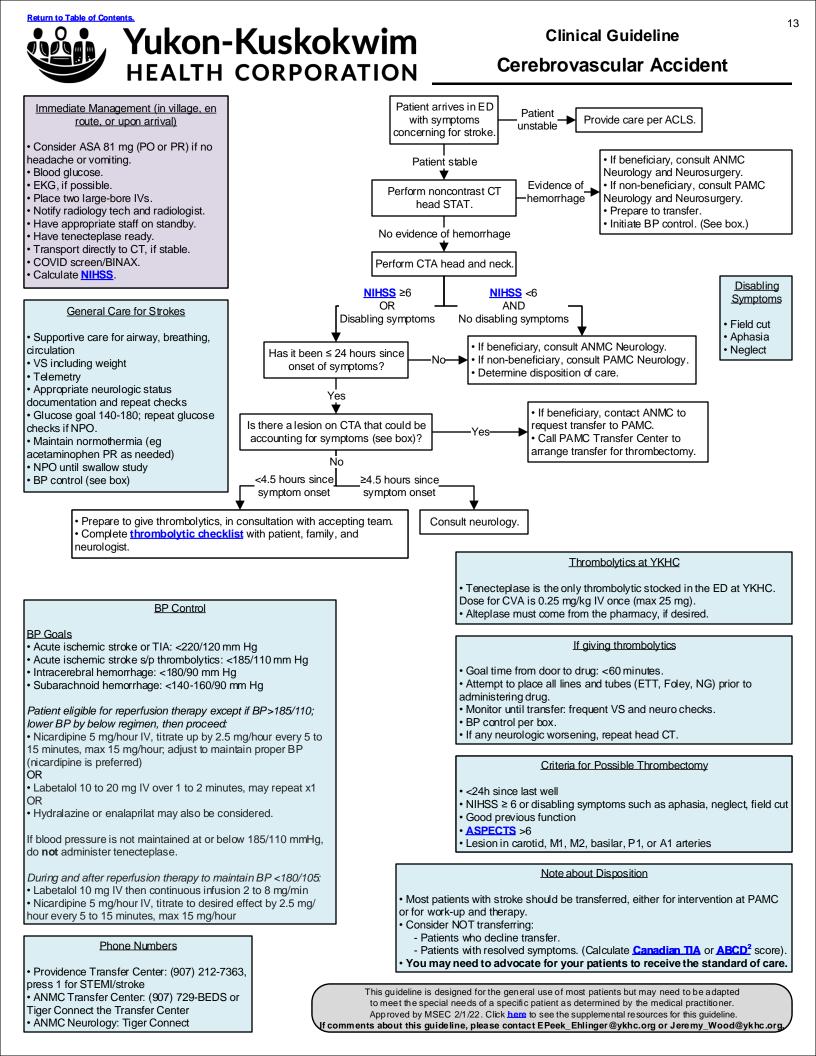
Place patient ID sticker here.

Return to Table of Contents.

Yukon-Kuskokwim HEALTH CORPORATION

Clinical Guideline Burns (Adult and Pediatric)







Thrombolytic Checklist

INDICATIONS (initial yes or no)				
YES	NO			
		Less than 4.5 hours since onset of symptoms or last known normal.		
		NIHSS greater than 5 (or less than 5 with disabling symptoms).		
		Symptoms are NOT rapidly improving.		
		Symptoms are NOT due to untreated hypoglycemia (BG<50).		

ABSOLUTE CONTRAINDICATIONS (initial yes or no)

YES	NO	
		CT evidence of hemorrhage OR extensive area of hypodensity (irreversible injury).
		GI/GU bleed in the last 21 days.
		Severe, uncontrolled, hypertension >185/110.
		Current intracranial neoplasm.
		Active internal bleeding or known aortic dissection.
		Any bleeding diathesis.
		Presentation suggestive of SAH or endocarditis (not septic emboli).
		History of intracranial hemorrhage.
		Anticoagulation (warfarin or DOAC in the last 48 hours or therapeutic-dosed heparinoids).
		Any of the following in the last three months: ischemic stroke, intracranial surgery, intraspinal surgery, or serious head trauma.

RELATIVE CONTRAINDICATIONS (initial yes or no) – If any of the following relative contraindications are present, consider expert consultation prior to giving thrombinolytic and/or consider these with consent and shared decision-making.

YES	NO	
		History of GI or GU hemorrhage.
		Arterial puncture in a non-compressible site in the last seven days.
		Seizure at onset with postictal neurologic impairment.
		Major surgery in the last 14 days.
		Pregnancy.
		Onset 3-4.5 hours with NIHSS >25 (higher bleeding risk) or age >80 (higher bleeding risk).
		Untreated AVM or aneurysm.
		Systemic malignancy.
		History of arterial dissections.
		Blood glucose greater than 400 (associated with worse outcomes).

This checklist is advisory for clinical decision-making and may not be all-inclusive. Risks and benefits will need to be assessed individually.

Physician signature: _

Printed name: _

____ Date and time: ____

Place patient ID sticker here.



PROCEDURE CONSENT

Yukon-Kuskokwim HEALTH CORPORATION

Cerebrovascular Accident

I hereby authorize and such assistants as he/she may designate, to perform the following operation or procedure: **TECHNICAL DESCRIPTION** Intravenous thrombolytic therapy for acute ischemic stroke. LAY DESCRIPTION Give clot-dissolving medication through an IV to dissolve the clot which is causing a stroke. has discussed with me the information briefly summarized below: • Thrombolytic medication is a treatment that may restore blood flow to the brain. • In studies, if these drugs were given less than three hours after the stroke started, 33% of patients given thrombolytic drugs had a good outcome. In patients who did not get thrombolytic drugs, 23% got better. Ten people would have to get the drug to help one person have a better outcome. • If these drugs were given between three and four and a half hours after the stroke started, 35% of patients given thrombolytic BENEFITS drugs had a good outcome, and 30% of patients who didn't get the drug also got better. Twenty people would have to get the drug to help one person have a better outcome. • Patients who receive this drug within three hours of the stroke starting have a 10% increase in chance of disability-free survival. • Patients who receive this drug between three and four and a half hours from the stroke starting have a 5% increase in chance of disability-free survival. • In a large study of stroke patients, 6.8% of them had bleeding in their brain after receiving thrombolytic drugs for stroke, RISKS compared to 1.3% of those stroke patients who did not receive the drug. If we give this drug 18 times, it will probably make one (some, but not all) person have bleeding in their brain. Among all people given this drug, 2% die from a hemorrhage. **RISKS OF NOT HAVING THE** · Higher risk of developing permanent, disabling stroke symptoms. PROCEDURE ALTERNATIVE TREATMENTS No other treatments available at this facility. Only monitoring symptoms and rehabilitation. Patient signature: Witness signature: Printed name: ____ Printed name: Date and time: Date and time: Physician signature: Witness signature: ____ Printed name: _____ Date and time: ___ Printed name: Date and time:

Place patient ID sticker here.



Patient with serious illness with expected death.

Preparation

In hospital:

Complete <u>Physician Orders for Life-Sustaining Treatment (POLST)</u> order form. Review with patient and family regularly.
 Review DNR/DNI status at least once an admission. Remember, all decisions regarding end-of-life care may be modified at any time per patient and family wishes.

Place DNR/DNI order in RAVEN. Update code status on RAVEN banner by going to Ad hoc → Code Status form.
 When discharging home, ensure all support is in place, including family care plan, comfort meds (consider sublingual morphine and lorazepam), incontinence supplies, etc.

In village:

• Discuss and document goals of care, code status, wishes for medevac/hospitalization with patient and family. Update code status in RAVEN as above.

Complete Expected Home Death form and send to AST/BPD.

• Place on RAVEN banner by going to AdHoc → Patient Registries and check off "Expected Home Death."

· Communicate with village health aides.

After a home death has occurred

Medical providers can pronounce death remotely after speaking with a qualified representative, which includes health aides. Representative must ascertain that there is no heart beat or spontaneous breathing.
Send Expected Home Death form to the State Medical Examiner and AST/BPD. If this form was not completed prior to death but would have been indicated, it is acceptable to fill it out after death. This will expedite things for the family.



Required Notifications

Ensure you have next of kin's name and phone number prior to making these calls.

In hospital:

- Bethel Police Dept 907-543-3781 Even if Expected Death form has been completed.
- Life Alaska 888 543-3287. Required by CMS for all hospital deaths.
- State Medical Examiner 888 332-3273. Please review page 3 for ME notification requirements.

In village:

- Alaska State Troopers 800 478-9112
- State Medical Examiner 888 332-3273 Please review page 3 for ME notification requirements.
- Optional: Life Alaska 888 543-3287. Deceased individuals in villages may still be candidate for tissue donation.

Documentation

• Death Note in RAVEN should be an Alert Note using autotext "..death" which fulfills all documentation requirements.

- Forward death note to Chief of Staff and designated Medical Records representative.
- Complete highlighted portions of Death Certificate and place in Medical Records basket.
- If death occurred in the hospital, complete Notification of Death form.

Helpful Forms

Note: Copies of the death packet are also kept on the inpatient unit

- Physician Orders for Life-Sustaining Treatment (POLST)
- Expected Home Death
 Death Certificate Worksheet

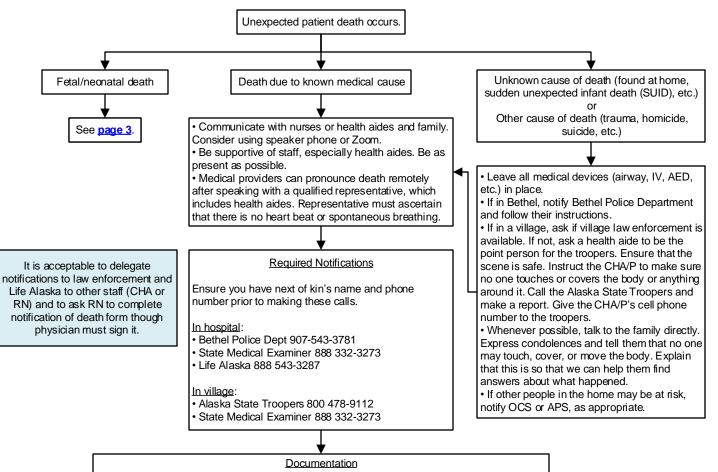
Death Certificate Workship

Notification of Death

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Yukon-Kuskokwim



Death Note in RAVEN should be an Alert Note using autotext "..death" which fulfills all

documentation requirements.

• Forward death note to Chief of Staff and designated Medical Records representative.

 If it is NOT an ME case, complete highlighted portions of Death Certificate and place in Medical Records basket.

• If death occurred in the hospital, complete Notification of Death form.

Helpful Phone Numbers

- Alaska State Medical Examiner: 888 332-3273
 Life Alaska: 907 562-5433
- Alaska State Troopers (AST): 800 478-9112
- Bethel Police Department (BPD): 543-3781
- State Epidemiology: 907 269-8000
- OCS Intake (for reports): 800 478-4444
- APS Intake (for reports): 800 478-9996

Regarding Life Alaska

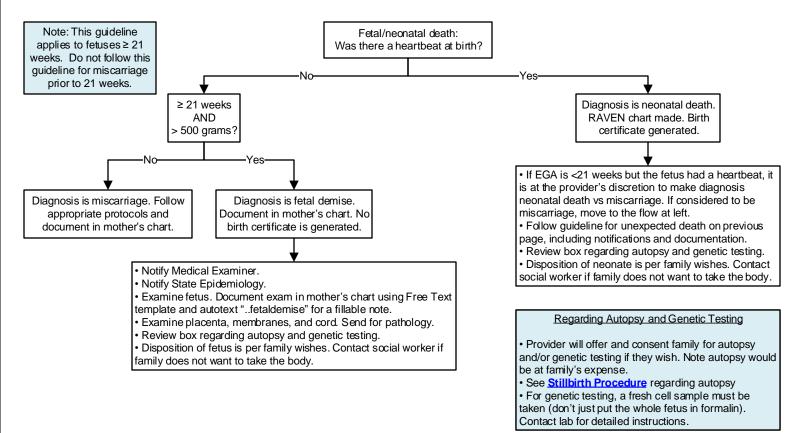
It is a CMS and TJC requirement to notify designated organ donation organization (Life Alaska) for all in hospital deaths. We are not mandated to contact Life Alaska for village deaths; however, individuals who die in villages may still be candidates for tissue donation. Additionally, if the death will become an ME case, Life Alaska must be notified.

This guideline is designed for the general use of most patients but may need to be a dapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 7/14/23. Click here to see the supplemental resources for this guideline.

If comments about this guideline, please contact clinical_guidelines@ykhc.org



Fetal/Neonatal Death & ME Notification



Medical Examiner Notification

Per YKHC and State of AK policy, the Medical Examiner must be notified when the death appears to have:

- 1. Been caused by unknown or criminal means, during the commission of a crime, or by suicide, accident, or poisoning.
- 2. Occurred under suspicious or unusual circumstances or occurred suddenly when the decedent was in apparent good health.
- 3. Been unattended by a practicing physician or occurred less than 24 hours after the deceased was admitted to a medical facility.
- 4. Been associated with a diagnostic or therapeutic procedure.
- 5. Resulted from a disease that constitutes a threat to public health.
- 6. Been caused by a disease, injury, or toxic agent resulting from employment.

7. Occurred in a jail or corrections facility owned or operated by the state or a political subdivision of the state or in a facility for the placement of persons in the custody or under the supervision of the state.

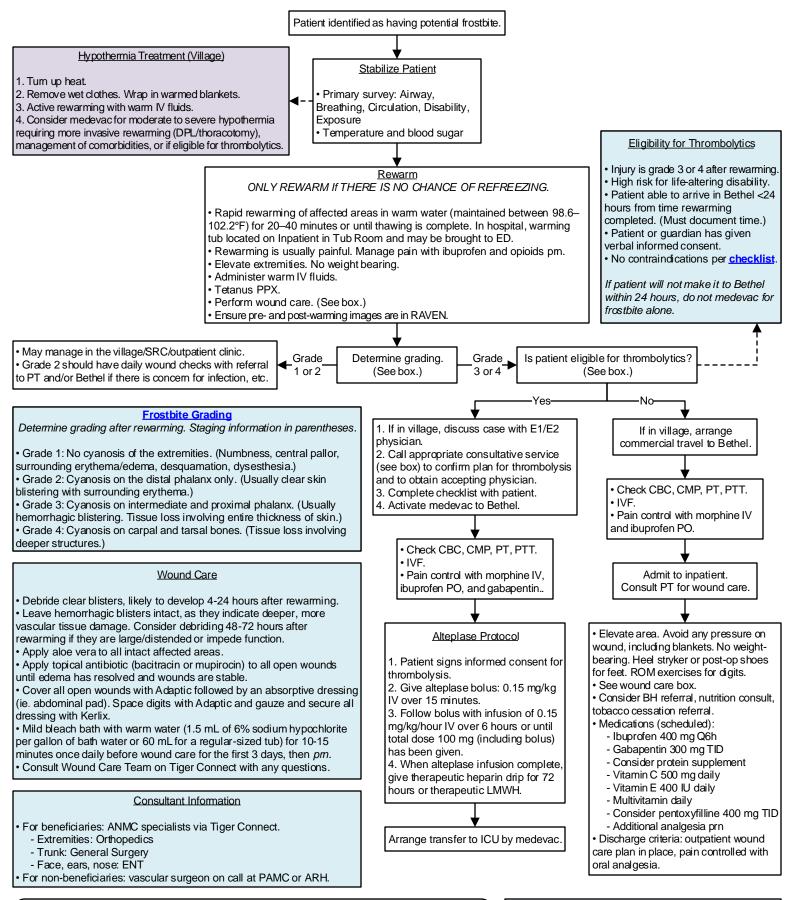
- 8. Occurred in a foster home.
- 9. Occurred in a mental institution or mental health treatment facility.

10. Occurred while the deceased was in the custody of, or was being taken into the custody of, the state or a political subdivision of the state or a public officer or agent of the state or a political subdivision of the state

11. Been of a child under 18 years of age or under the legal custody of the Department of Health and Human Services, unless the child's death resulted from a natural disease process and was medically expected and the child was under supervised medical care during the 24 hours before the death.

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Note: people in crises such as frostbite have time to think and are open to change. Alcohol, nicotine, and behavior modification counseling are very effective during these times.





Alteplase Checklist

INDICATIONS (initial yes or no)					
YES	NO				
		Grade 3 or 4 frostbite.			
		igh risk for life-altering disability.			
		Patient able to arrive in Bethel <24 hours from time rewarming complete.			
		Patient or guardian able to give informed consent.			

ABSOLUTE CONTRAINDICATIONS (initial yes or no)

YES	NO				
		Prior intracranial hemorrhage.			
		wn structural cerebral vascular lesion.			
		nown malignant intracranial neoplasm.			
		chemic stroke within three months.			
		uspected aortic dissection.			
		ctive bleeding or bleeding diathesis (excluding menses).			
		Significant closed-head trauma or facial trauma within three months.			

		ONS (initial yes or no) – If any of the following relative contraindications are present, consider expert consultation prior to giving se with consent and shared decision-making.
YES	NO	
		History of chronic, severe, poorly controlled hypertension.
		Severe uncontrolled hypertension on presentation (SBP >180 mmHg or DBP >110 mmHg)
		History of ischemic stroke more than three months prior
		Traumatic or prolonged (>10 minute) CPR or major surgery less than three weeks
		Recent (within two to four weeks) internal bleeding or recent invasive procedure or serious trauma.
		Noncompressible vascular punctures.
		Pregnancy.
		Active peptic ulcer GI malignancy, GI hemorrhage in previous 21 days, h/o GI bleed.
		Pericarditis or pericardial fluid.
		 Therapeutic LMWH. Current use of any anticoagulant that has produced an elevated INR >1.7 or PT >15 seconds or abnormal PTT.
		Age >75 years.
		Diabetic retinopathy.
		Platelet count <100,000.

This checklist is advisory for clinical decision-making and may not be all-inclusive. Risks and benefits will need to be assessed individually.

Physician signature: _

Printed name:

__ Date and time: _

Place patient ID sticker here.



Ο



YKHC follows the statewide "Guidelines for the Management of Acute Blunt Head Trauma in Alaska," found <u>here</u>.

> If concern for spinal injury, see YKHC <u>Spinal</u> <u>Cord Injury Management</u> guideline.

Village Management of Isolated Head Trauma

See <u>Canadian CT Head Injury/Trauma Rule</u>.

• If GCS 14-15 and no high risk criteria met, observe in clinic for two hours. If worsening or no improvement, consider transfer to Bethel in consultation with ED physician.

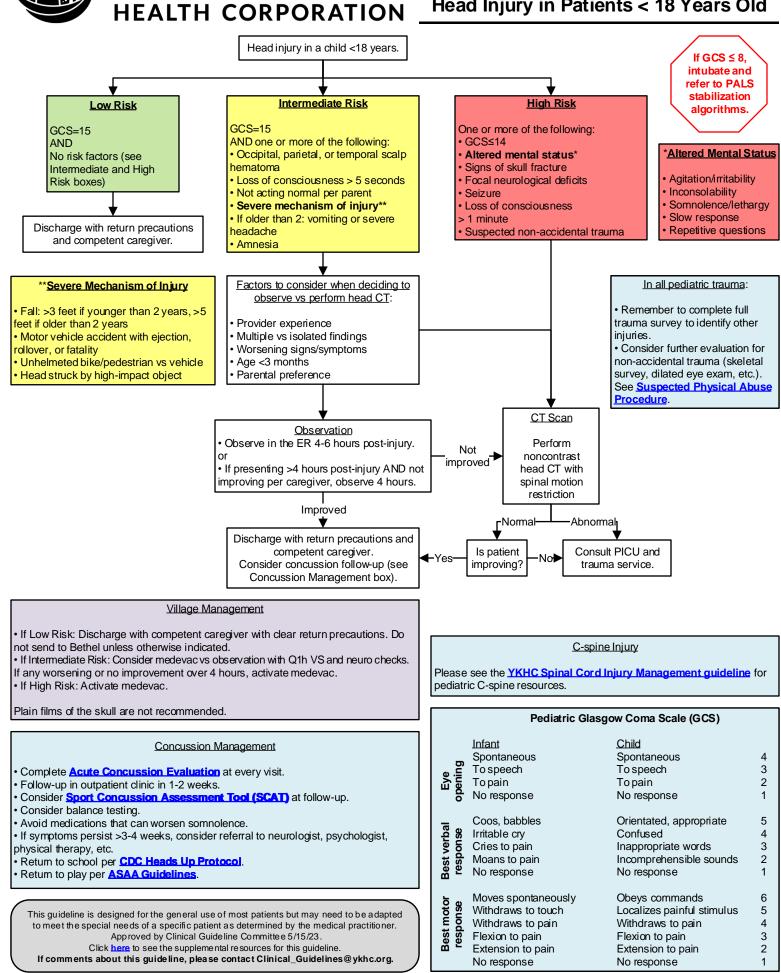
• If GCS 9-13 or 14-15 with high-risk criteria, consult Emergency RMT provider or ED physician.

If GCS ≤8, activate medevac and support airway per ATLS.

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Clinical Guideline

Head Injury in Patients < 18 Years Old



Return to Table of Contents.

Yukon-Kuskokwim

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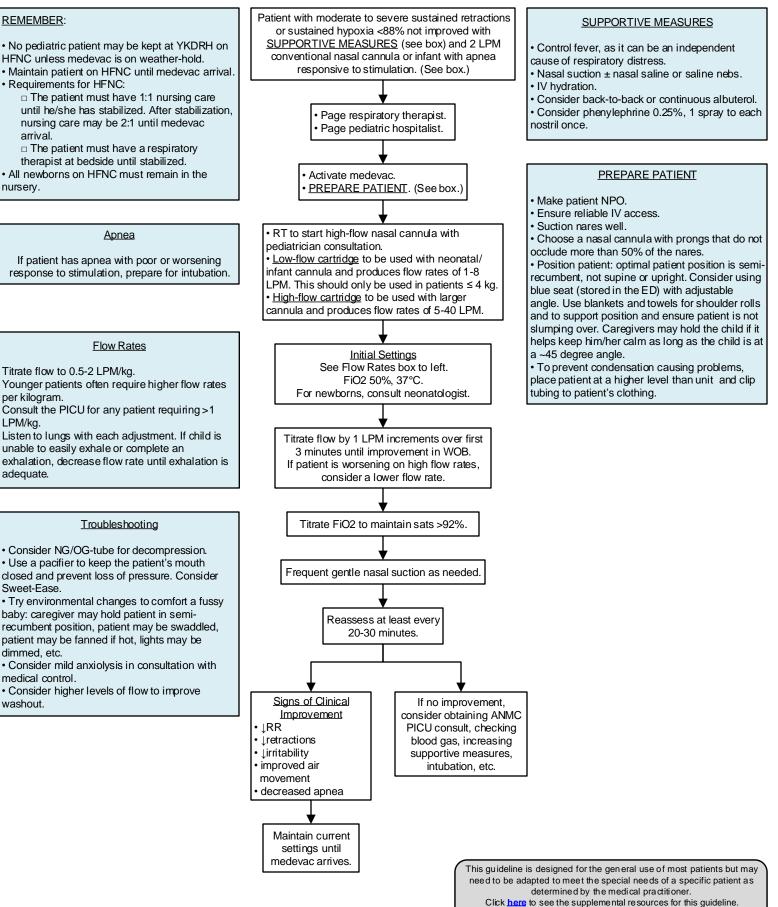


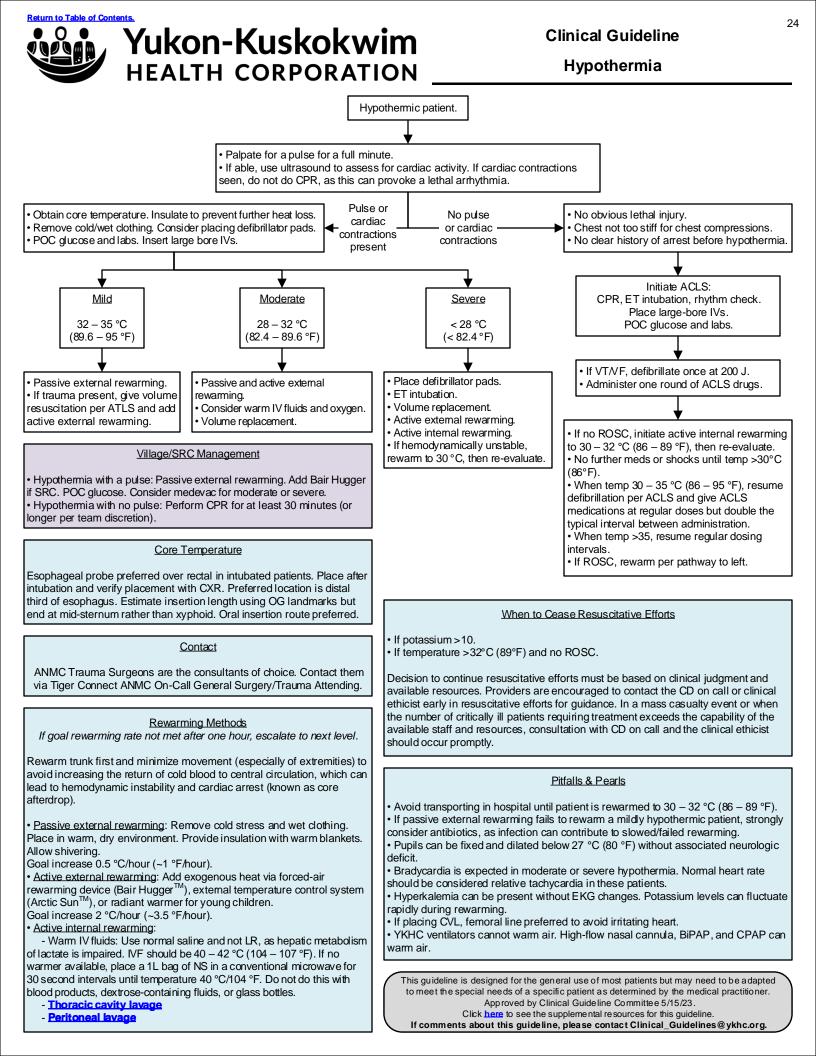
Yukon-Kuskokwim

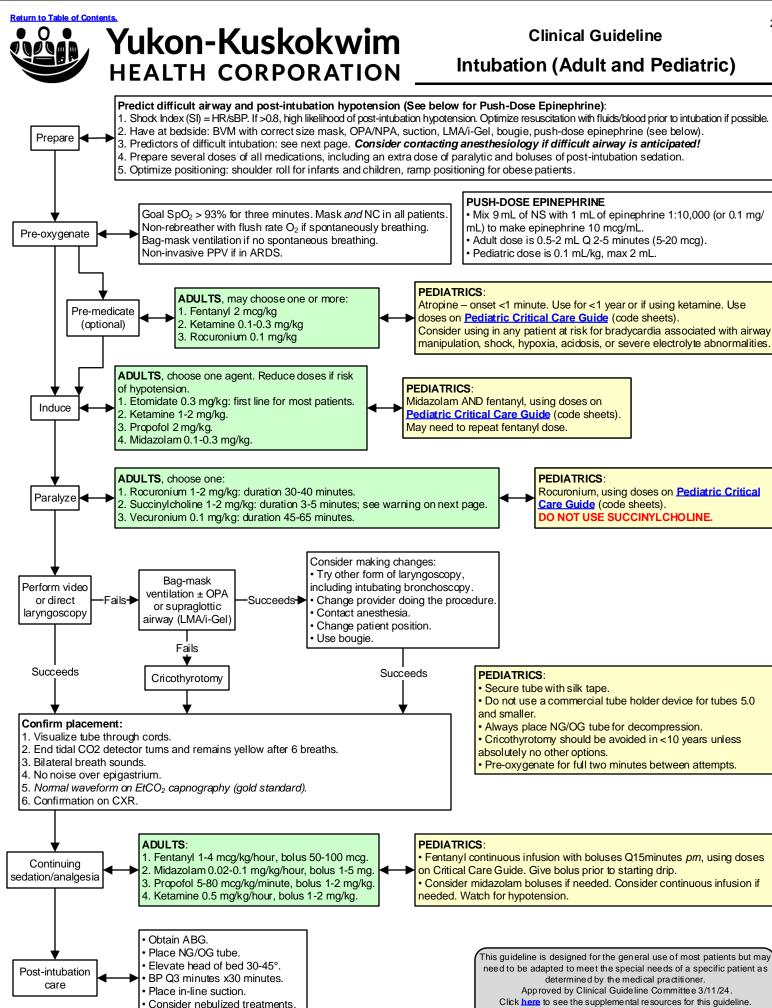
Clinical Guideline

High-Flow Nasal Cannula (Pediatric)

Approved by Clinic Guidelines Committee 11/27/22. If comments about this guideline, please contact Amy_Carson-Strnad@ykhc.org.







Consider C-collar.

If comments about this guideline, please contact Travis_Nelson@ykhc.org or Leslie_Herrmann@ykhc.org.



Clinical Guideline Intubation (Adult and Pediatric)

Hyoid-Mental Distance =

3 Fingerbreaths

Class 3

Predictors of Difficult Intubation

Class 1

Interincisor opening =

3 Fingerbreadths

Predictors of Difficult Intubation

- Mallampati grade 3 or 4
 Cormack & Lehane grade 3 or 4
- Wilson score of > 2
- · LEMON system; objective/subjective scoring

Wilson Score					
	0	1	2		
Weight (kg)	< 90	90-110	> 110		
Head and neck movement	> 90°	~ 90°	< 90°		
 Inter-incisor gap (cm) SL (maximum forward protrusion of lower incisors beyond uppers) 	> 5 > 0	= 5 = 0	< 5 < 0		
Receding mandible	None	Moderate	Severe		
Buck teeth	None	Moderate	Severe		

LEMON System				
L	L Look: trauma, large tongue			
Е	Evaluate 3:3:2 rule.			
М	M Mallampati score ≥3			
0	O bstruction			
Ν	Neck mobility (limited)			

Helpful Resource: the Difficult Airway App

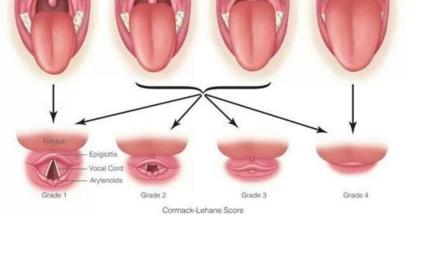
Difficulty with BVM

Predictors of Difficulty with BVM

- R Radiation/Restriction
- Obstruction/Obesity/OSA 0
- Mask seal/Male/Mallampati ≥3 М
- Α
- Aged
- Ν No teeth

Options if having difficulty with BVM

- 2-hand technique with 2 providers
- Oral/nasal airways
- Positioning
- Consider no paralytics



Mallampati Score

Class 2

Paralytics					
Succinylcholine					
Absolute contraindications: Family / personal history of malignant hyperthermia Hyperkalemia; if unknown K, obtain EKG for peaked Ts Upper motor neuron injury, denerving neuromuscular disease Use after acute phase of burns, major trauma, crush injury					
Relative contraindications: Elevated ICP Pseudocholinesterase deficiency					
<u>Treatment of malignant hyperthermia</u> : Dantrolene 2.5 mg/kg IV, redosing based on expert guidance					
Avoid in pediatric patients.					

Rocuronium

Note: Incidence of rocuronium IgE-induced anaphylaxis is estimated at 1:2500. Consider if sudden cardiovascular collapse after giving rocuronium.

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Resources: Guideline adapted from Strayer Airway Algorithm, Austin Hospital Airway Algorithm, Difficult Airway Course Predictors of Difficult Intubation: http://medind.nic.in/iad/t05/i4/ iadt05i4p257.pdf

Hyoid-Thyroid Cartilage

Distance = 2 Fingerbreaths

Class 4



ADULTS: ARDS/Protective Ventilation Protocol (appropriate for most patients without indication for alternate ventilation)

Initial Ventilator Settings:

Set Tidal volume (Vt) = 6-8 mL/kg using Ideal Body Weight. See MDCalc Tidal Volume Calculator.

2. Reduce Vt by 1 mL/kg every 1-2 hours until Vt 6 mL/kg.

3. Set initial rate to 18-35 bpm based on pre-intubation rate.

Obstructive lung disease: Consider lower RR to maximize expiratory phase.

4. Set initial PEEP at 5 cm H2O.

If BMI > 30, set PEEP to 8 cm H2O.

If BMI > 40, set PEEP to 10 cm H2O.

5. Set initial FiO2 at 30-40%; adjust to SpO2 88-95%.

6. Set inspiratory flow rate 60-80 lpm.

Obstructive lung disease: Consider inspiratory flow rate 80-100 lpm

Check BP immediately after any major changes in vent settings.

Adjust settings based on patient status, blood gases, CXR, and expert consultation.

Oxygenation goal: PaO_2 55-80 mmHg or SpO₂ 88-95%. Use a minimum PEEP of 5 cm H₂O. Consider use of incremental FiO₂/PEEP combinations such as shown below (not required) to achieve goal.

PEDIATRICS: Suggested Starting Ventilator Settings

1. Set FiO_2 to 1.0 and titrate to maintain SpO₂ 92-94%. Goal is to decrease FiO_2 to <0.5 if possible.

- 2. Set Tidal Volume (Vt) at 8-10 mL/kg. If concern for ARDS, set Vt to 6-8 mL/kg.
- 3. Goal is inspiratory plateau pressures <30 cm H_2O .

4. Set respiratory rate by age, increasing or decreasing based on disease process:

- Adolescents 12-15 breaths/minute
- Children 15-20 breaths/minute
- Infants 20-25 breaths/minute
- Neonates 25-30 breaths/minute
- 5. Set PEEP to 5 cm H₂O to optimize alveolar recruitment.
- 6. Set inspiratory time by age:

Adolescents 1.0 second

- Children 0.7 second
- Infants/neonates 0.5 second
- 7. If using pressure support, set at 5-10 cm H_2O .
- 8. Get a blood gas ~30 minutes after any changes to ventilator settings.

Check BP immediately after any major changes in vent settings.

Call PICU at (907) 297-8809 immediately to help troubleshoot any problems. Low threshold to use Zoom.

For All Modes of Ventilation

• Initial vent setting are based on patient presentation.

 Vent settings are adjusted based on patient tolerance of mechanical ventilation and ABG results. For high PCO₂: increase rate and Tidal Volume For low PO₂: increase FiO₂ and PEEP

Obtain ABG prior to intubation, 30 minutes following intubation, and 30 minutes after vent changes.

Goal plateau pressure < 30 cm H₂O; decrease Vt to lower plateau pressure.
 Obese patients may require higher plateau pressure.

Target pH > 7.30; increase RR to control hypercapnia.

• Avoid intubation if possible in patients with obstructive lung disease; maximize use of NIPPV.

Check BP immediately after any major changes in vent settings.

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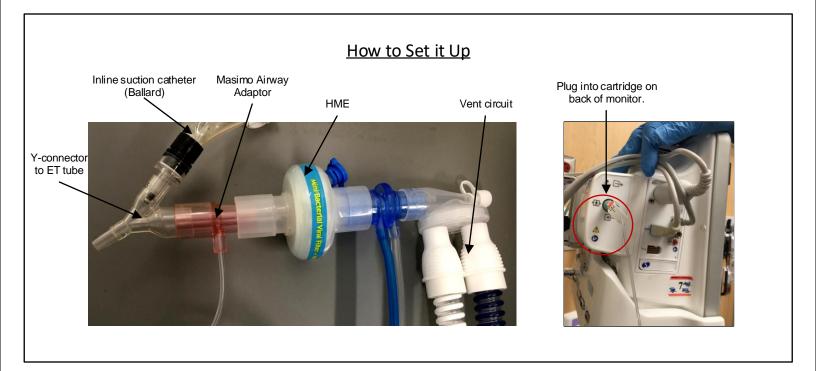
Extubation

If considering extubation in the Emergency Department, see **this algorithm** and **this resource**.



How to Set Up ET CO₂ Monitoring on the SpaceLab[™] Monitor for Ventilated Pediatric Patients

<text> SpaceLaTM Montor Masino Ainay Adaptor Angano Ainay Adaptor



Troubleshooting: Things to Try if Unable to Get Reading

- Swap the cartridge on the back of the monitor with one from another room. (See photo to right.) Some monitors are not defaulted to monitor CO2 and must be set up: (1) After plugging cartridge in, screen will show "NO SAMPLING LINE Check system." (2) Press "GAS." (3) Press "SETUP." (4) Press "RESUME CO2."
- Cartridge

- Try new Masimo Airway Adaptor.
- Calibrate the monitor by pressing "cal" → "gas."
- Make sure there is no moisture in the adaptor.
- Check that all connections fit tightly.

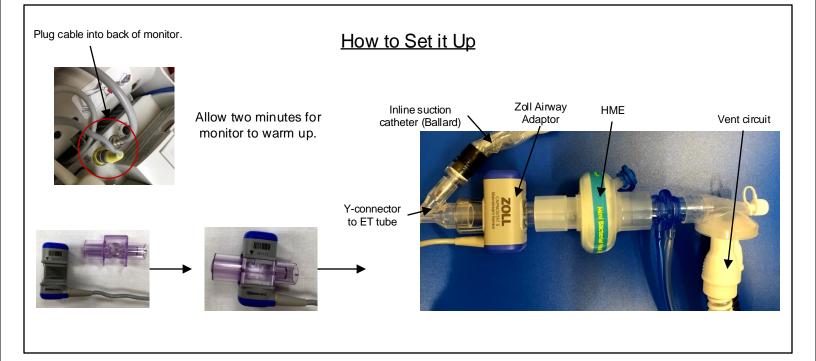
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How to Set Up ET CO₂ Monitoring on the Zoll[™] Monitor for Ventilated Pediatric Patients

What You Need

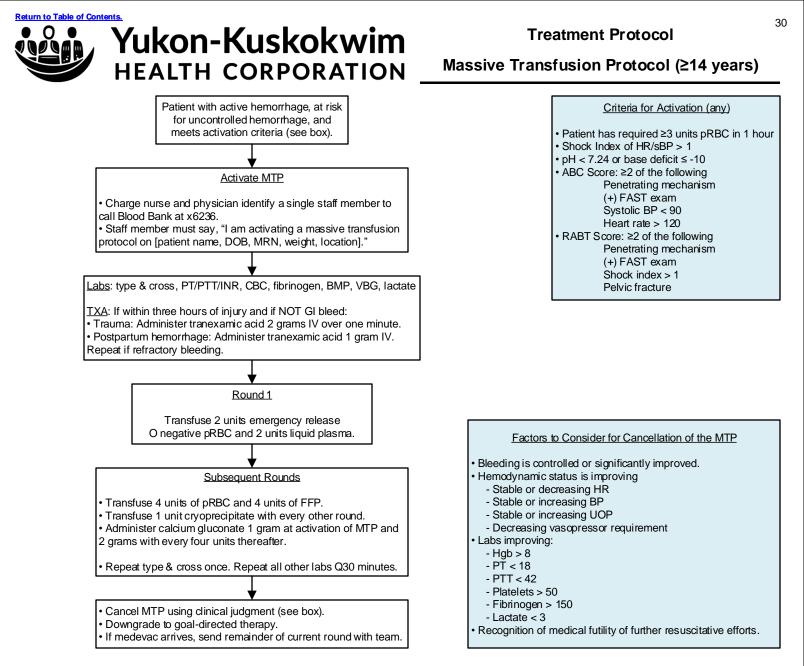




Troubleshooting: Things to Try if Unable to Get Reading

- Make sure the Zoll has had two minutes to warm up.
- Try new Zoll Airway Adaptor.
- Make sure there is no moisture in the adaptor.
- · Check that all connections fit tightly.

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Risks of Massive Transfusion	Availability of Blood Products at YKHC			
Non-fatal complications in 50% of patients transfused >5 units of	Blood type	Quantity (units)	Rounds**] '
blood: • Coagulopathy	O negative	10	2-3] .
Thrombosis ARDS: adult respiratory distress syndrome	O positive	16	4-5	1 '
TACO: transfusion-associate circulatory overload TRALI: transfusion-related acute lung injury	A positive	10	6-7	17
Hemolytic reaction	B positive	6	5-6	י [
	AB	none	7-8	1
Tips				
 Avoid crystalloids to prevent dilution Acidosis predicts mortality. Treatment is to optimize resuscitation. 	Anticoagu	lation Reversal Agen	ts at YKHC	A

 Acidosis predicts mortality. Treatment is to optimize resuscitation. No clear benefit to bicarb but may be considered if pH persistently <7.2 despite resuscitation.

• Avoid hypothermia; keep core temperature > 36°C.

• pRBC should be transfused with a mass transfuser and blood warmer.

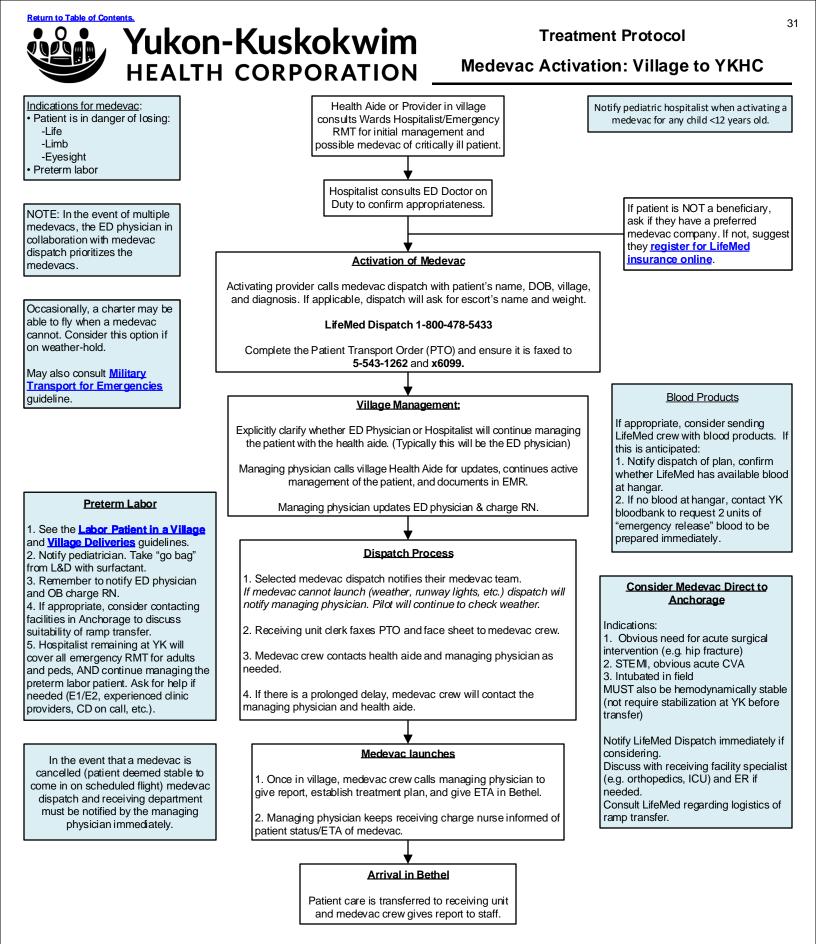
· Utilize ED technician to transport blood products during an MTP.

DOA/warfarin: Kcentra 2000 units or 25-50 units/kg at ~3 units/kg/minute
Warfarin: Vitamin K 2.5-10 mg IV over 10-20 minutes

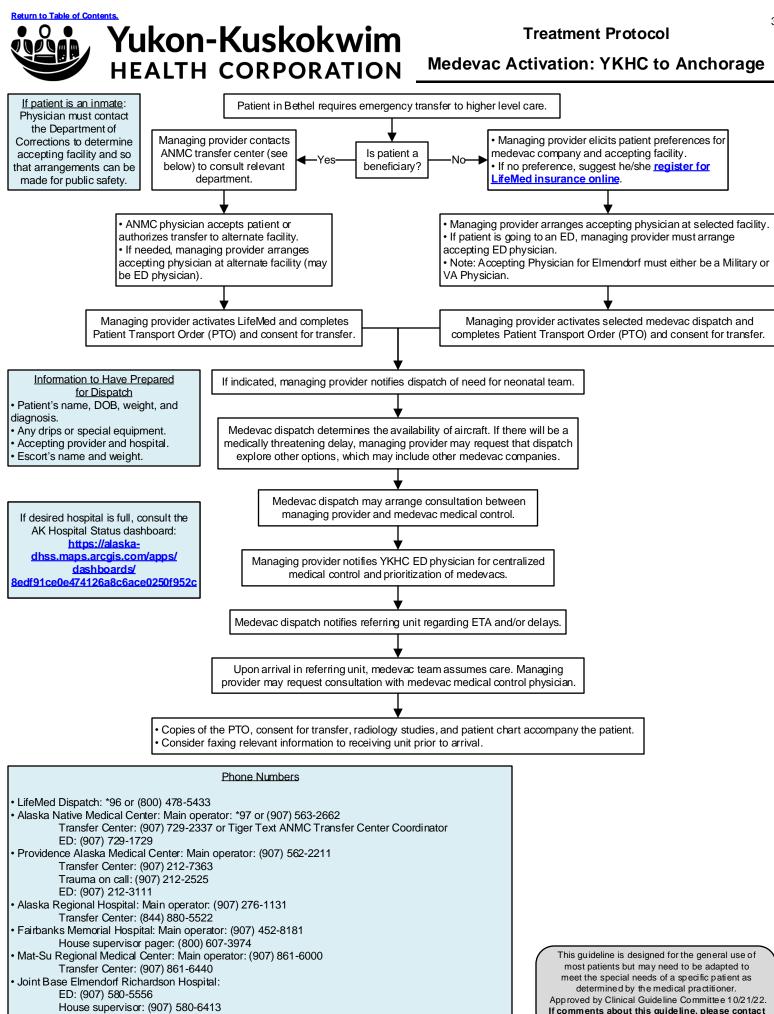
Dabigatran: PraxBind[®] 2.5 grams IV Q5 minutes x2
 Heparin: Protamine 0.5-1 mg IV over 10 minutes

**Per lab policy, the blood bank cannot dispense all units to a single patient in case of other emergencies. May discuss with Clinical Director on call.

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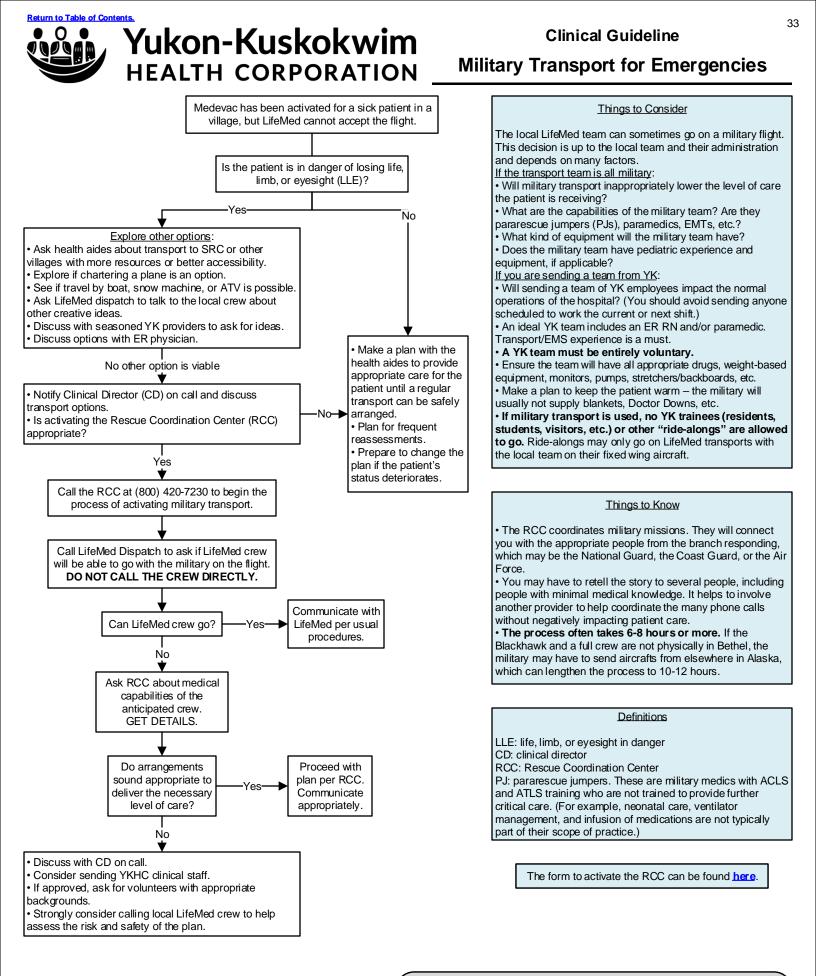
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Department of Corrections On Call: (844) 751-4588

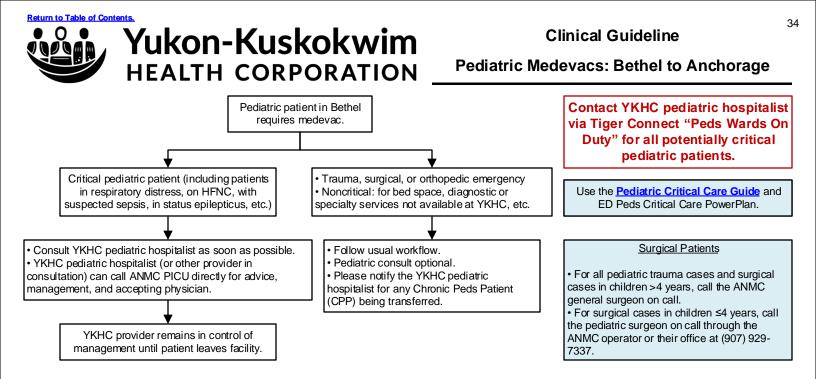
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32



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If comments about this guideline, please contact Ellen_Hodges@ykhc.org



Non-beneficiary Patients

Non-beneficiary patients are transferred to Providence Alaska Medical Center via the PAMC Transfer Center. If you are told there is no bed, ask to speak to the physician (hospitalist or PICU). Arrangements can often be made to accept a patient even if a bed is not immediately available.
Ask about medevac insurance coverage. May suggest family register for LifeMed insurance online, which can be done just prior to activation.

Neonatal Transfers

Contact PAMC neonatologist at (907) 212-3614 for advice, management recommendations, etc.

Notify ANMC pediatric hospitalist on-call for any beneficiary infant transferred to PAMC NICU.

After obtaining accepting physician, YKHC physician is responsible for activating Lifemed and discussing patient with neonatologist, if needed.

When to Transfer to PAMC NICU:

- GA <32 weeks
- BW <1500 grams
- Any newborn who required intubation
- Newborns requiring prompt surgical or medical subspecialty care
- No beds available at ANMC or non-beneficiary infant requiring transfer
- Discretion of NNP

When to Transfer to ANMC NICU:

- GA ≥32 weeks
- BW ≥1500 grams
- Any baby who meets criteria for transfer per the Late Preterm guideline
 Term or early term babies with temperature instability, respiratory distress, supplemental O₂ requirement, hypoglycemia requiring IV

treatment, need for IV antibiotics, etc.

Contact

ANMC PICU (physician or NP): (907) 297-8809 – may request to speak with physician.

• ANMC Transfer Center: (907) 729-2337 or Tiger Connect Transfer Center Coordinator.

- LifeMed: *96 or (800) 478-5433
- PAMC Transfer Center: (907) 212-7363
- PAMC PICU:212-3133
- PAMC NICU: (907) 212-3614
- Alaska Pediatric Surgery: (907) 929-7337

LifeMed is the preferred medevac company for children younger than 3 years old. If any difficulty, call CD on call to discuss.

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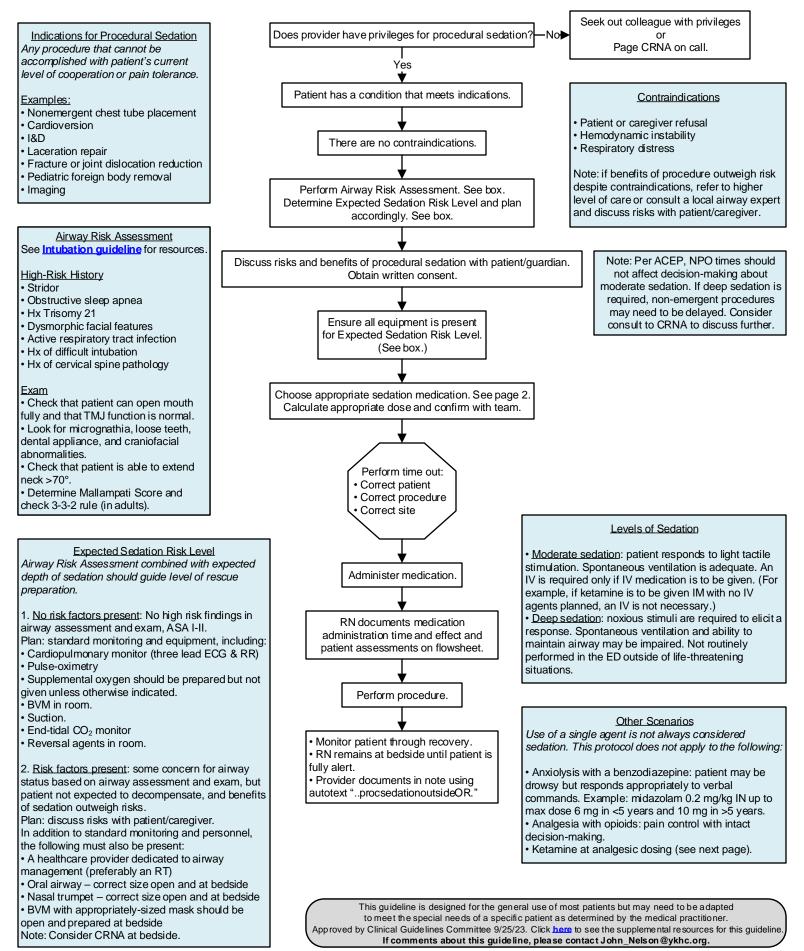
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Clinical Protocol

Procedural Sedation and Analgesia Outside the OR

35





Clinical Protocol

Procedural Sedation and Analgesia Outside the OR

Agent	Bolus Dose	Titration Dose	Onset	Duration	Reversal Agent	Comments	
	<u>Patients >10 years</u> : 0.2 mg/kg	0.05 mg/kg Q3-5 min	30-60 seconds	3-5 minutes		 No analgesic effect. Use IBW if BMI>30. Consider lower dose (0.1 mg/kg) for age >60 years, concurrent opioids, or if recent alcohol use. 	
Etomidate	Patients ≤10 years: 0.2 mg/kg (0.1-0.3 mg/kg) Slow IV push over 30- 60 seconds.	0.05 mg/kg Q3-5 min	30 seconds	2-10 minutes	Time	 Administer via larger vessel. (antecubital or larger). Precautions: 30% have myoclonus with transient skeletal/eye movements. 	
	<u>Adults</u> : 1-2 mg/kg IV over 1-2 min 4-5 mg/kg IM		30 seconds 3-4 min	10-20 min 20-30 min	• Time	 Local anesthetic (eg. lidocaine) can increase effective duration. Consider lower dose range for >60 years, 	
Ketamine for sedation	<u>Children >3 mo</u> : 1-2 mg/kg IV over 1 min		30-120	20-60 min	• For laryngospasm: Succinylcholine 0.25-0.5 mg/kg IV	concurrent opioids/alcohol. • Consider dosing by adjusted body weight if BMI>30. • Precautions: emergence reactions (treat with	
	4-5 mg/kg IM		seconds 5-10 min	30-90 min	or 3-4 mg/kg IM	 benzodiazepines), nausea/vomiting (pre-treat with ondansetron), transient increase in salivation. Contraindications: pregnancy, age <3 months. 	
	5 mg/kg PO		20-45 min	60-120 min		Local anesthetic (eg. lidocaine) can increase	
Ketamine for analgesia	0.1-0.4 mg/kg IV 0.4-1.0 mg/kg IM		30 seconds 3-4 min	10-20 min 20-30 min	Time For laryngospasm: Succinylcholine 0.25-0.5 mg/kg IV	effective duration. • Consider lower dose range for >60 years, concurrent opioids/alcohol. • Consider dosing by adjusted body weight if BMI>30.	
	5				or 3-4 mg/kg IM	 Precautions: emergence reactions (treat with benzodiazepines), nausea/vomiting (pre-treat with ondansetron), transient increase in salivation. Contraindications: pregnancy, age <3 months. 	
Bronofol	<u>Patients >2 yrs</u> : IV load 0.5-1 mg/kg <u>Children 6 mos – 2 yrs</u> :	Repeat 0.1-0.3 mg/kg Q30-60 seconds	30-60 seconds	3-10 min	Time	 No analgesia. Consider low dose for age >60, concurrent opioids/alcohol. Consider dosing by adjusted body weight if BMI>30. Separate administration of opioid and propofol by >20 minutes to decrease respiratory depression. Pre-oxygenate with high flow supplemental 	
Propofol	IV load 1-2 mg/kǵ	Repeat 0.1-0.3 mg/kg Q30-60 seconds Max cumulative dose 3 mg/kg			Time	 oxygen at least 3 minutes prior to procedure. Precautions: burning sensation during administration, hypotension, ↓CO, or bradyarrhythmias. High risk of respiratory depression/failure. Contraindications: allergies to egg, soybean, fat emulsion. 	
	<u>Adults</u> : 1-4 mg IV		5-10 min IV	3-5 hours			
Morphine	10 mg PO		30 min PO		Naloxone 0.1 mg/kg IV. May repeat	 Reduce dose when combining with a benzodiazepine. As opioids provide sedation and analgesia, 	
	<u>Pediatrics</u> : 0.05-0.1 mg/kg IV Max 4 mg		5-10 min	2-3 hours	Q2 minutes.	administer them prior to benzodiazepines.	
	Adults: 0.5 mcg/kg if given with other sedatives	May repeat dose Q2min until	<1 min				
Fentanyl	0.5-1 mcg/kg Max 100 mg	desired sedation and analgesia achieved			Naloxone 0.1 mg/kg IV. May repeat Q2 minutes.	 Reduce dose when combining with a benzodiazepine. As opioids provide sedation and analgesia, administer them prior to benzodiazepines. 	
	Pediatrics: 1 mcg/kg IV up to 50 mcg/dose		3-5 min	30-60 min	Q2 minutes.	aunimister them pror to benzoulazepines.	

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Procedural Sedation and Analgesia Outside the OR

Agent	Bolus Dose	Titration Dose	Onset	Duration	Reversal Agent	Comments
Midazolam	<u>Adults</u> : 2-5 mg IV <u>Pediatrics (6 mos - 12 yrs)</u> : 0.2-0.3 mg/kg/dose IN 0.05 mg/kg IV	May repeat dose Q2min until adequate sedation. Max 0.3 mg/kg. May repeat dose Q5min until max dose of 0.5 mg/kg is reached. Age <5 max 6 mg; age >5 max 10 mg.	3-5 min	15-20 min	Flumazenil 0.01 mg/kg (up to 0.2 mg) IV over 15 seconds. May repeat Q1 minute.	 No analgesia. Consider lower dose range for >60 years, concurrent opioids/alcohol. Watch for dose-related hypotension.
Dexmedetomidine (Precedex™)	Adults: Bolus 0.5-1 mcg/kg – infuse over 10 minutes. 2-18 years: Bolus 2 mcg/kg -infuse over 10 minutes. 1 month to < 2 years: Bolus 1.5 mcg/kg – infuse over 10 minutes. Intranasal for <10 years 2 mcg/kg IN x1, max dose 200 mcg.	Infusion 0.2-1 mcg/kg/hour. Infusion 1.5 mcg/ kg/hour (titrate up to 2 mcg/kg/hour). Infusion 1.5 mcg/ kg/hour (may titrate up to 2 mcg/ kg/hour).	Onset 5-10 minutes.	Duration 60-240 minutes post discontinuation of infusion Duration 30-70 minutes post discontinuation of infusion Duration 30-70 minutes post discontinuation of infusion.		 Sedative with modest analgesia and minimal respiratory depression. No amnestic properties – consider midazolam if amnesia desired. Biggest side effects: bradycardia and hypotension – generally dose/rate dependent. Relative contraindications: inadequate hydration, reduced cardiac output, elevated LFTs. Absolute contraindications: digoxin, cardiac conduction abnormalities.

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Nursing Flowsheet for Procedural Sedation and Analgesia Outside the OR

PROCEDURE MONITORING

HR, RR, SpO₂, LOC (level of consciousness), and Modified Aldrete Score to be monitored and recorded Q5 minutes until fifteen minutes after last administration of sedating medication, then Q15 minutes x1 hour, then Q1h until returned to pre-sedation baseline. Respiratory status should be monitored continuously.

TIME OUT PERFORMED

- Correct patient
- □ Correct procedure
- Correct site

Time Initials

PRE-SEDATION IV ACCESS

IVF	Site	
Gauge	Rate	

EQUIPMENT READINESS

- In room:
- Cardiopulmonary monitor with three lead ECG, RR,
- and BP cuff □ Pulse-oximeter
- □ Supplemental oxygen
- □ BVM
- Suction
- End-tidal CO₂ monitoring
- Readily accessible: Crash cart
- Reversal agents

PRESENT IN ROOM (NAME AND ROLE)

RESPIRATORY EFFORT QUALITY

N = normal	L = labored
S = shallow	R = regular
D = deep	l = irregular

LOC SCALE

- 5 = awake and alert
- 4 = sleeping intermittently
- 3 = asleep but responds to voice
- 2 = responds to painful stimuli
- 1 = unresponsive

POST-SEDATION EVALUATION

- □ VS and SpO₂ stable and patient has returned to pre-sedation baseline.
- LOC at pre-sedation baseline.
- □ Airway protective reflexes intact or at pre-sedation baseline.
- Patient tolerates oral intake.
- Ambulation at baseline.

OUTCOMES AND MONITORING

Check all that apply:

- □ Apnea > 15 seconds.
- □ Intubation or positive pressure ventilation.
- \square Desaturation with SpO₂ <90% for >90 seconds.
- D Vomiting.
- □ HR, CP, or RR change 30% from baseline.
- □ Emergency consultation with CRNA after start of procedure.
- No complications.

PROCEDURE SUMMARY

Date of procedure:
Procedure start time:
Procedure end time:
Time last sedating medication was given:
Deepest level of sedation achieved:
IVF received (type and total volume):

MODIFIED ALDRETE SCORE

Activity

Acuvity		
	Able to move four extremities voluntarily on command. Able to move two extremities voluntarily on command. Unable to move.	2 1 0
Respirat	ion	
	Able to breathe deeply and cough freely.	2
	Dyspnea or limited breathing.	1
	Apnea.	0
Circulati	on	
	BP and HR ± 20% of pre-sedation level.	2
	BP and HR \pm 20-50% of pre-sedation level.	1
	BP and HR \pm 50% of pre-sedation level.	0
Conscio	usness	
	Fully awake and able to answer questions.	2
	Arousable only to calling.	1
	Unresponsive.	0
Oxygena	ation	
	$SpO_2 > 90\%$ on room air.	2
	Requires supplemental oxygen to maintain $SpO_2 > 90\%$.	1
	SpO ₂ <90% despite supplemental oxygen.	0

SIGNATURES	
Provider performing sedation:	 Place patie
Monitoring RN:	
Provider performing procedure:	

ent ID sticker here.



Nursing Flowsheet for Procedural Sedation and Analgesia Outside the OR

ТІМЕ	BP	HR	RR	RESPIRATORY EFFORT QUALITY	SpO ₂	OXY GEN (L/min)	LOC	MODIFIED ALDRETE SCORE	MEDICATION AND DOSE	COMMENTS	INITIALS

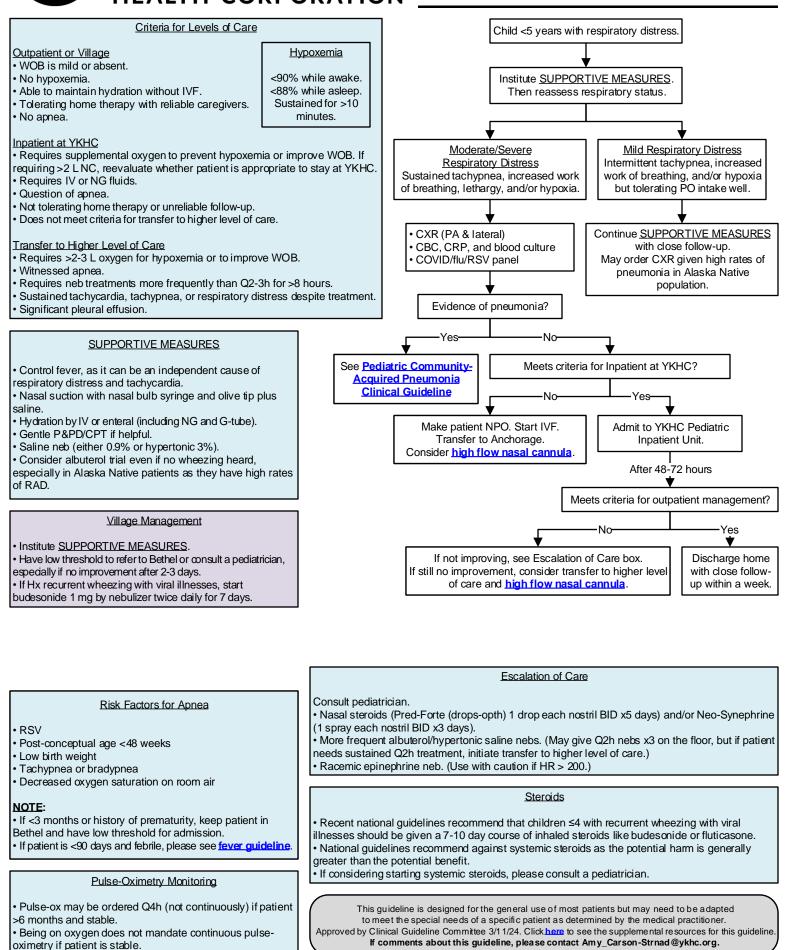
SIGNATURES	
Monitoring RN(s):	

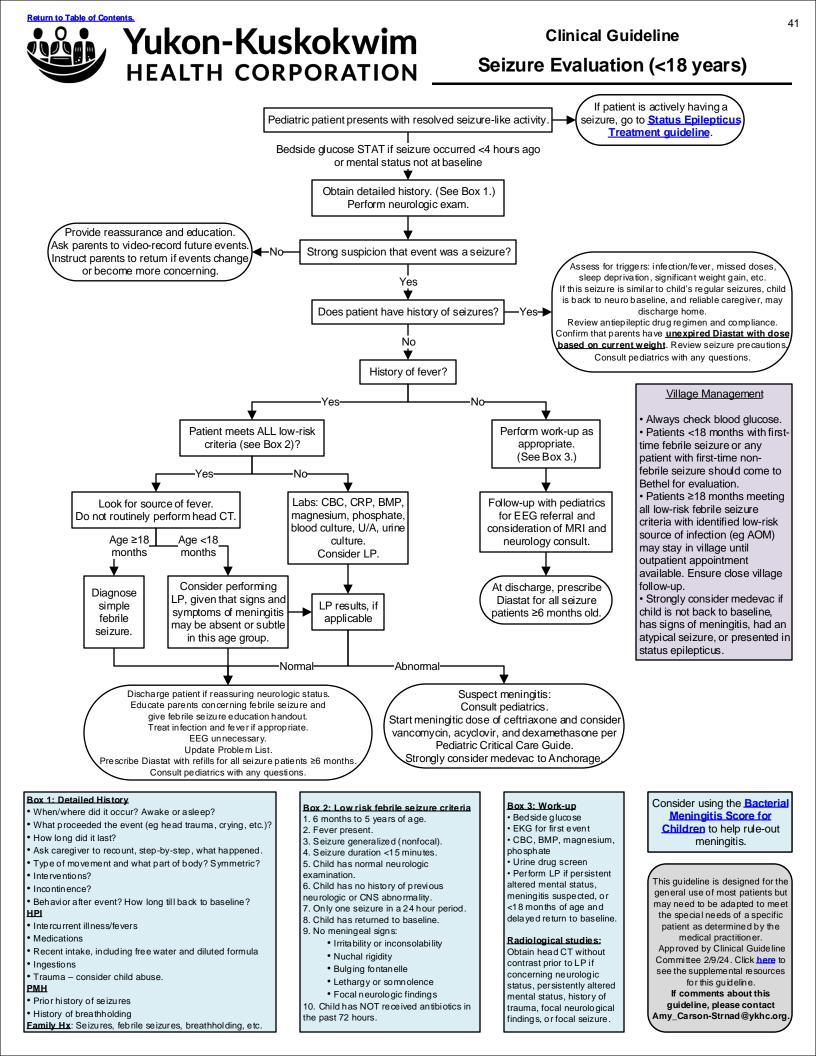
Place patient ID sticker here.



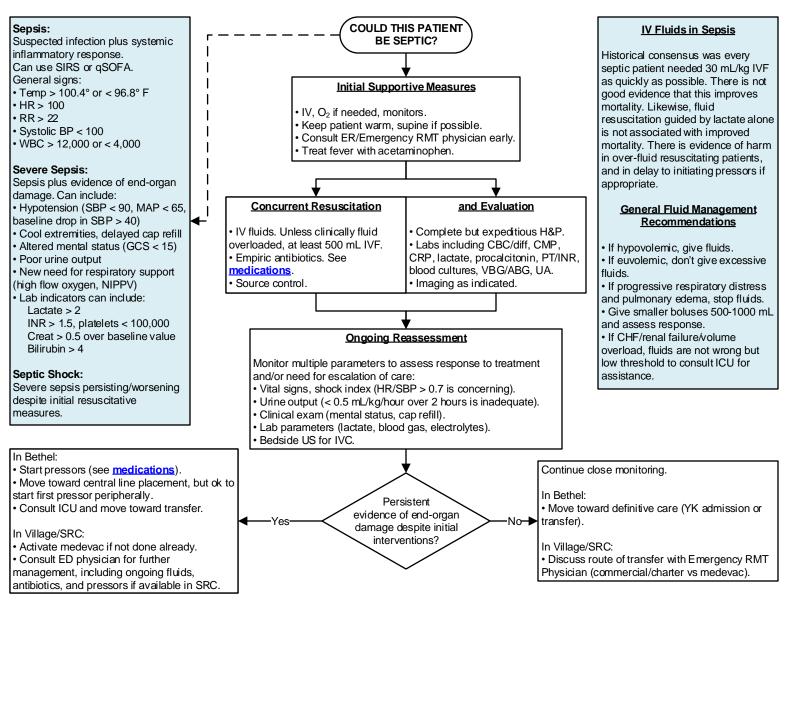
Clinical Guideline

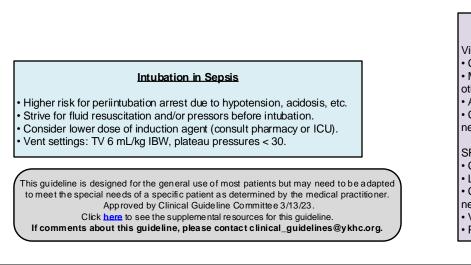
Respiratory Distress & Bronchiolitis Management (<5 years)











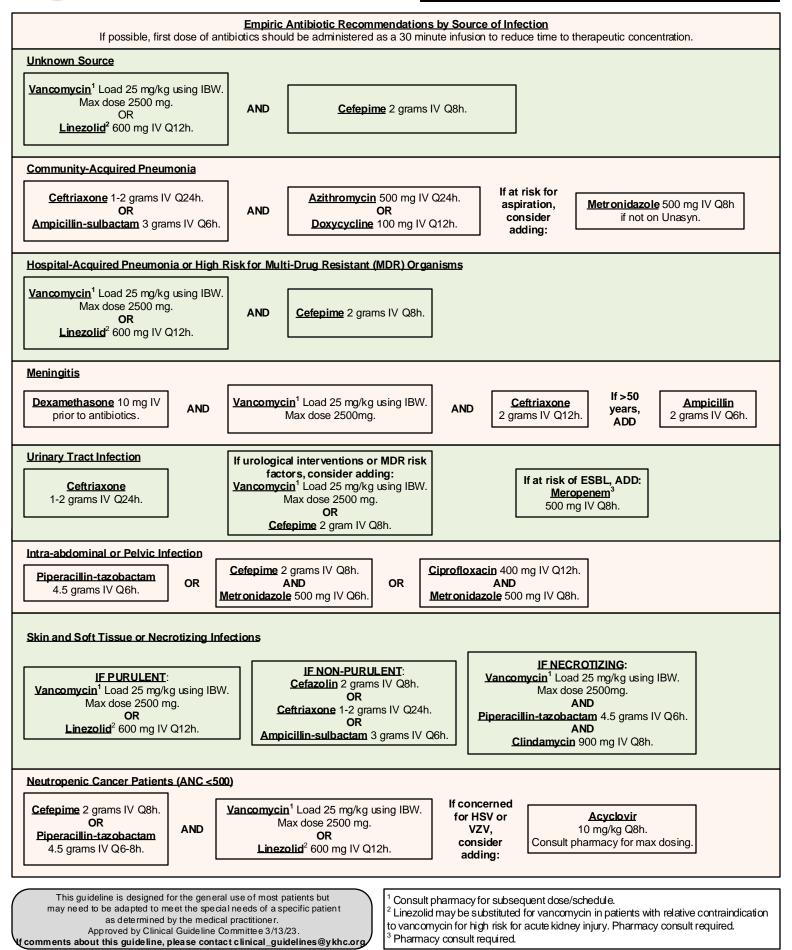
Medications Outside Bethel Village formulary: • Ceftriaxone 1-2 grams IM (for most cases) • Metronidazole 500 mg PO (abdominal source, necrotizing SSTI, other need for anaerobic coverage) • Azithromycin 500 mg PO (CAP) • Clindamycin 900 mg PO (for anaerobic coverage, toxins in necrotizing infections) SRC formulary: • Ceftriaxone 1-2g IV/IM (for most cases) • Levofloxacin 750mg IV (for pseudomonas coverage) • Clindamycin 900 mg IV (for anaerobic coverage, toxins in necrotizing infections)

- Vancomycin 25 mg/kg or 2.5 g max IV (for MRSA)
- Pressors: epinephrine consult pharmacist if considering.



Clinical Guideline

Sepsis Antibiotics (Adult)





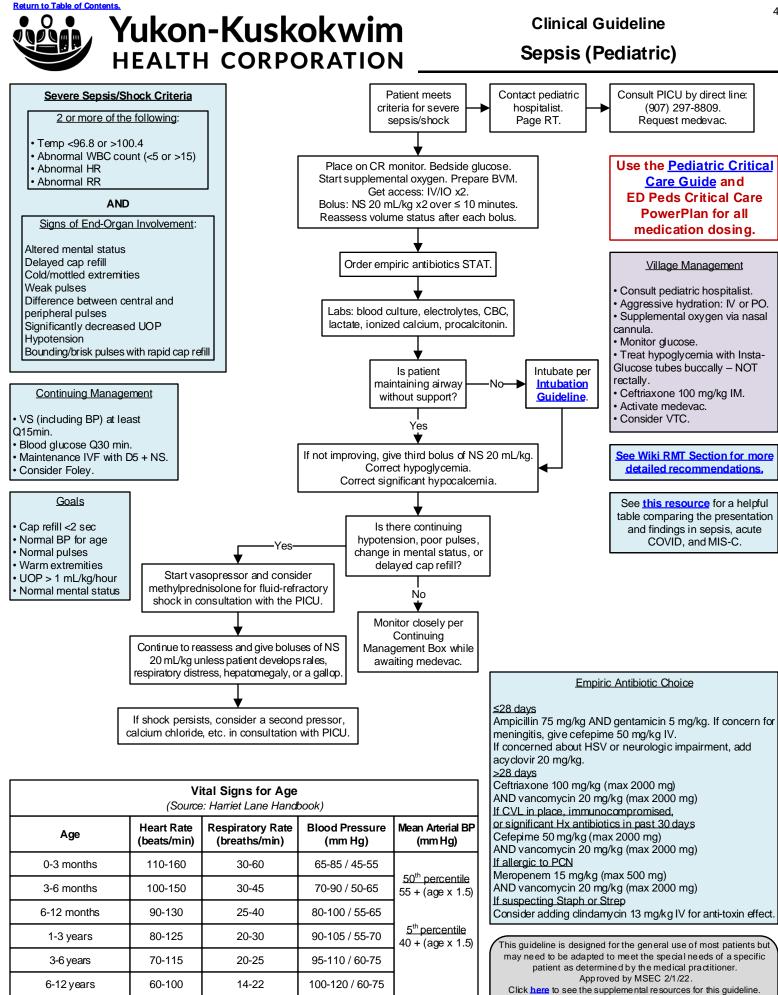
Sepsis Vasoactive Medications (Adult)

	Vasopressors
Central venous access is preferred for administration of vasopressors in an SRC, pressors may be available. Consult ED physician.	s, but these may be administered through peripheral IV if unable to obtain central access. If
Norepinephrine 2-80 mcg/min IV initial infusion rate.	First-line vasopressor of choice in sepsis.
• Vasopressin 0.03-0.04 units/min.	May be added to norepinephrine to increase MAP or decrease norepinephrine dose. DO NOT use as a single agent.
Epinephrine 1-40 mcg/min initially, titrated to effect.	May be added or used in place of norepinephrine to maintain adequate BP.
Dopamine 2-20 mcg/kg/min.	Second-line option in highly select patients as it causes more tachycardia.
Phenylephrine 40-160 mcg/min IV initial infusion until stabilized. Titrate to usual range of 20-400 mcg/min.	Can be used as salvage therapy for refractive hypotension associated with tachycardia.
Dobutamine 2-20 mcg/kg/min IV infusion.	May be used for inoptropic support in the presence of severe myocardial dysfunction or hypoperfusion with depressed cardiac output.

Corticosteroids

Corticosteroids should NOT be administered for the treatment of sepsis in the absence of shock. If considering use of corticosteroids for septic shock refractory to pressors after euvolemia and appropriate antibiotic therapy achieved, consult ICU. The exception is giving dexamethasone prior to first dose of antibiotics for meningitis.

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12-18

60-100

>12 years

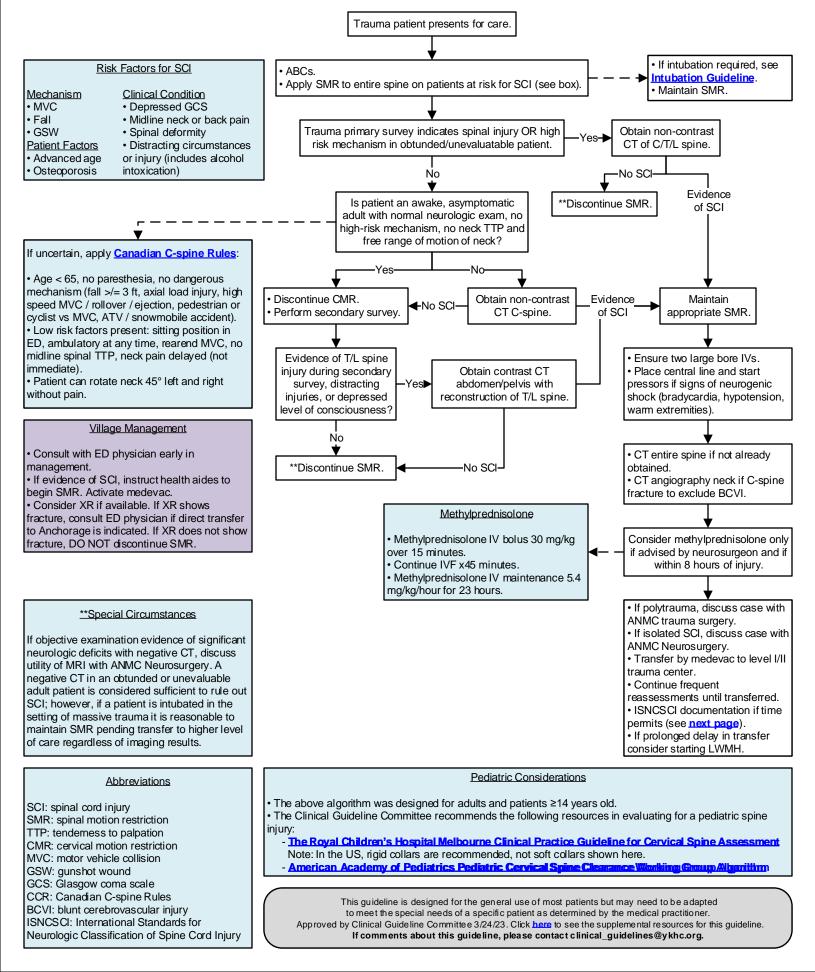
100-120 / 70-80

If comments about this guideline, please contact Amy_Carson-Strnad@ykhc.org.

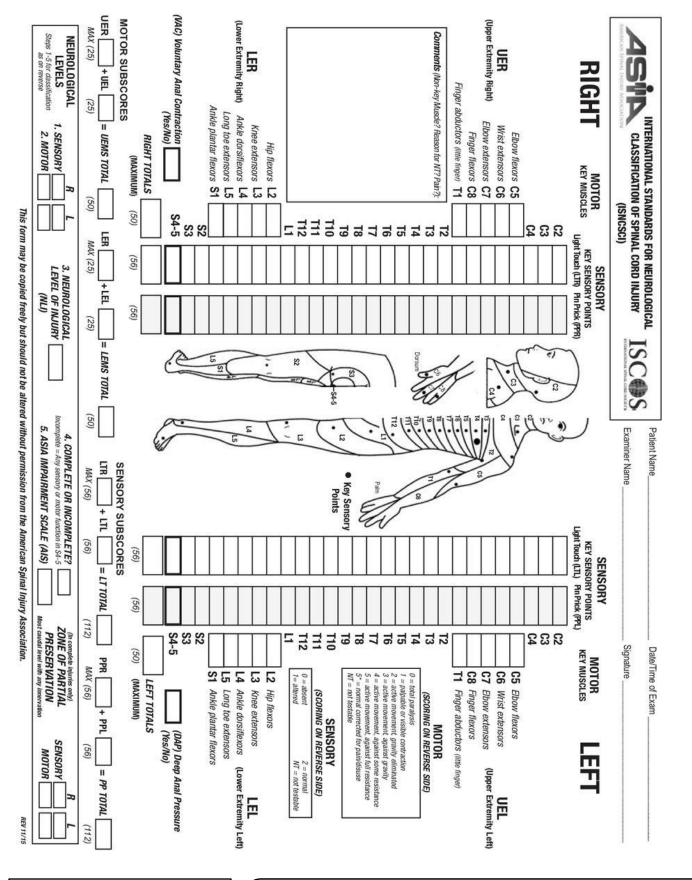


Yukon-Kuskokwim

Spinal Cord Injury (SCI) Management





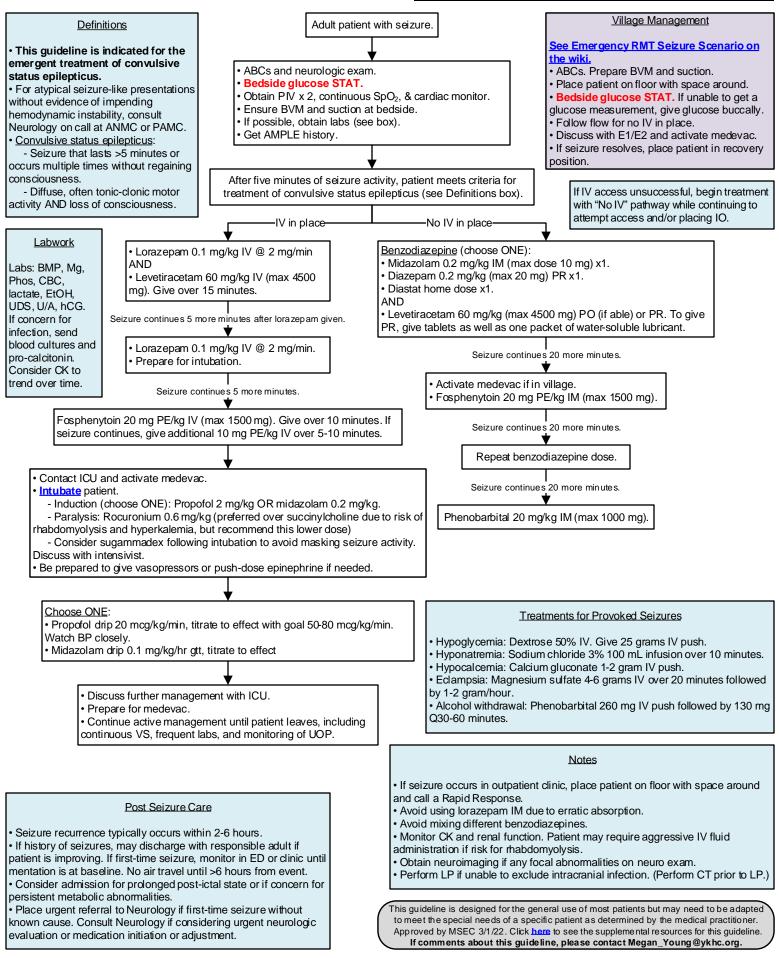


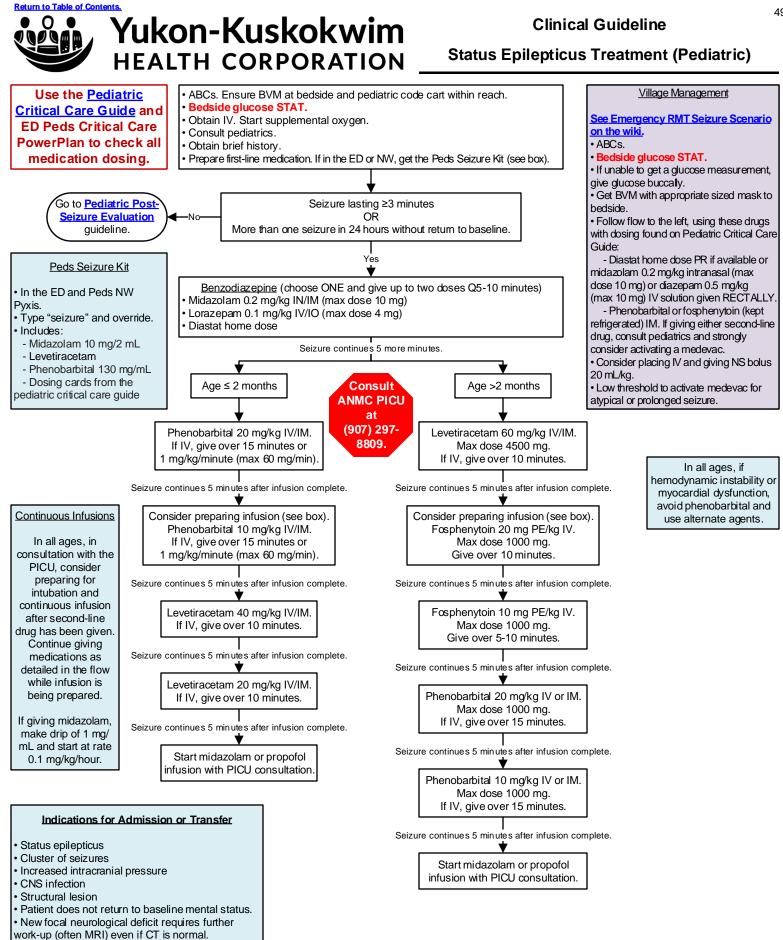
If time allows, please print this, complete it, scan it into the patient's MultiMedia Manager, and send with patient at time of transfer. This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 3/24/23. Click here to see the supplemental resources for this guideline. If comments about this guideline, please contact Travis_Nelson@ykhc.org.



Clinical Guideline

Status Epilepticus Treatment (Adult)





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Strangulation

Goals		Patient presents with c	oncern for strangulation		
1. Evaluate carotid and vertebral arteries for					
injuries. 2. Evaluate bony/cartilaginous and neck soft		Are ANY of the f	ollowing present?		
tissue structures. 3. Evaluate brain for anoxic injury.	Airway: subcutaneous er	mphysema (can be a sign	n of tracheal or laryngeal i	upture)	
<u>Note</u> : Life-threatening injuries can be present up to one year after strangulation event.	 Facial, intra-oral, or α Odynophagia 		sion, etc.	esia, cortical blind	ness,
Helpful Links			y, swelling, carotid tender ture, recurrent laryngeal n		
S/Sx strangulation in <u>adults</u> and <u>children</u> Physiological consequences <u>timeline</u>	 Bladder or bowel incontin Pulmonary: dyspnea, ph 	nence			
	Yes to ANY-		No to ALL-	7	
Rule Out Life-Threatening Injuries	2				
 If GFR ≥30: CT angio of carotid/vertebral arris the gold standard for evaluation of vessels cartilaginous structures but is not very sensititissue trauma. If GFR <30: non-contrast CT of neck. This is sensitive than CT angio for vessel injury but givisualization of bony and cartilaginous structures. 	and bony/ ve for soft tudy is less jives good	How recent was event? <48 hours ago ♥	ago AND a sa	able home monitorir afe place to go to? YesNo	
Injury identified	inpatien	erve in ED or admit to t until 48 hours post-even on severity of symptoms.		tions to return d urological •	Consider discharge to TWC. May call TWC
Consult trauma surgery and plan to tra Consider ENT consult for laryngeal tra with dysphonia.			signs/symptoms dysphonia, ody dysphagia, or v occur or worser	nophagia 3 oice changes a n. s	Crisis Line (543- 3456) for assistance with safe shelter.
			Give custom S Patient Education	on handout. 5	Also may call SART on call at 545-4238 for further assistance.

Tundra Women's Coalition (TWC)

- Crisis Line: 543-3456
- Main office: 543-3444
- On-call advocate: 545-4328

Services Provided by TWC

- Emergency shelter
- Hospital accompaniment
- Information about community resources
- Legal advocacy
- Violent crime compensation
- Funds for emergency air or cab transportation

If patient would like to report incident:

- If occurred in a village: Alaska State Troopers 543-2294
- If occurred in Bethel: Bethel Police Department 543-3781

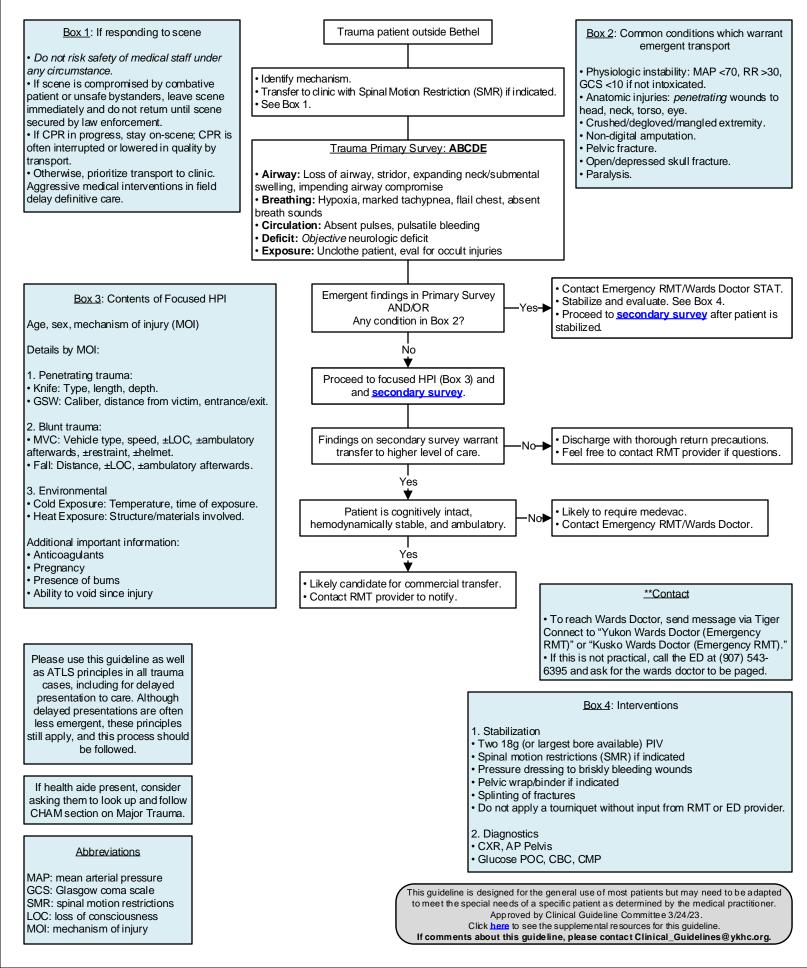
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Use the following autotexts in your documentation: • ..hpiStrangulation • ..physStrangulation



Clinical Guideline

Trauma Outside Bethel

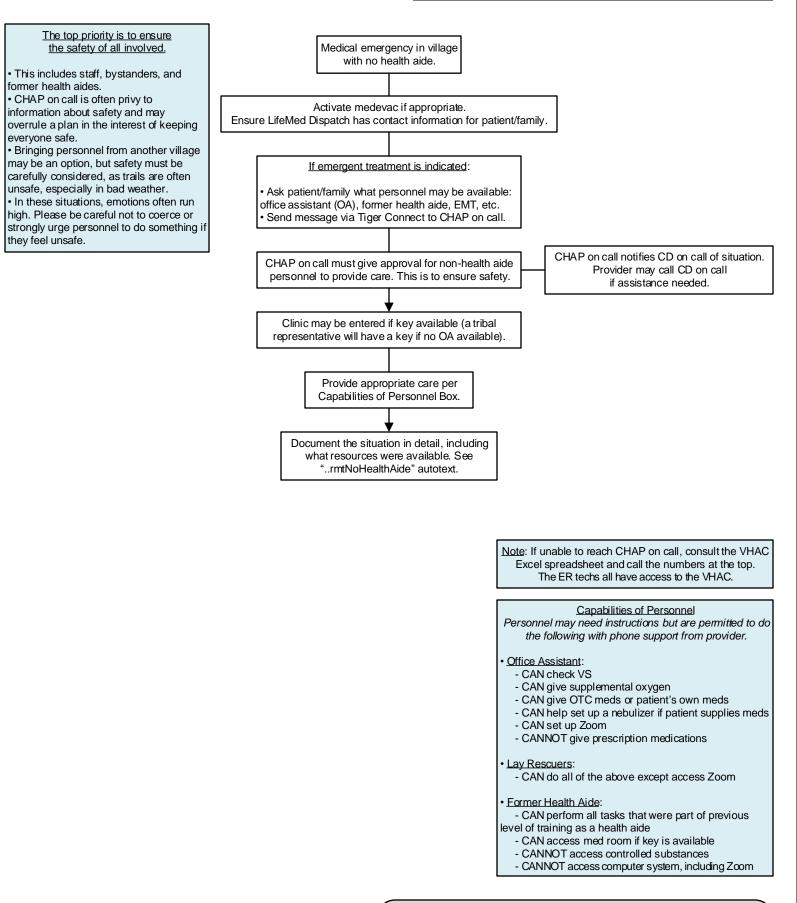




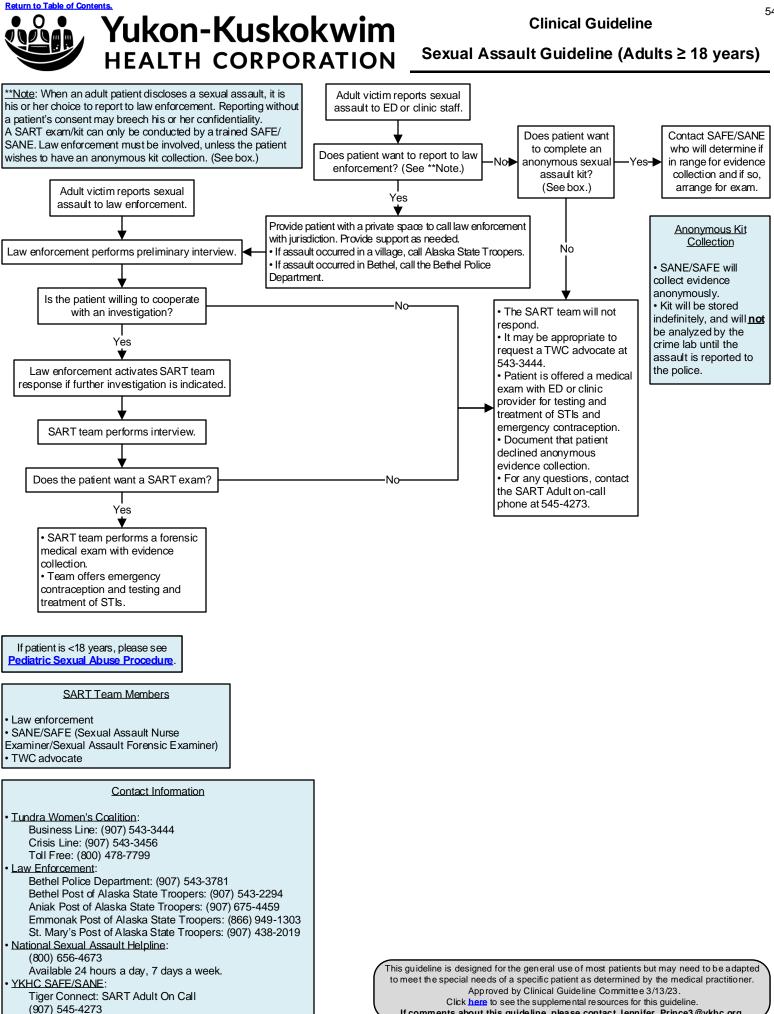
Trauma Outside Bethel

Secondary Survey Checklist Document in your note using autotext "traumasurvey"		
Mental Status: GCS		
<u>Scalp</u> : • Lacerations / swelling • Evidence of skull fracture		
Eyes: • Visual Acuity • Pupil size/reactivity • Globe integrity • Extraocular muscle movement		
Ears: • Hemotympanum • TM rupture		
<u>Face</u> : • Nose: Epistaxis, septal hematoma, fracture • Mouth: Midline, symmetric jaw, able to open and close.		
Neck: • Swelling / soft tissue injury • TTP over cervical spine		
<u>Chest:</u> • Ecchymoses, swelling, flail chest • TTP, crepitus, displaced ribs • Bilateral lung sounds		
Abdomen: • TTP, distension, absent bowel sounds		
Pelvis/GU: • Stability to pressure at the anterior superior iliac spine • TTP of femoral head • Testicular swelling • Blood at urethral meatus		
Back: • TTP along T/L spine		
Long bones: • Deformity/TTP • Lacerations over fractures (should be treated as open fractures) • Limitations in active ROM		
Integument (all sites): • Cold, pale, cap refill >3 seconds • Lacerations: <i>If not over vascular area, explore with sterile glove</i> • Hematomas (watch for expansion) • Burns		





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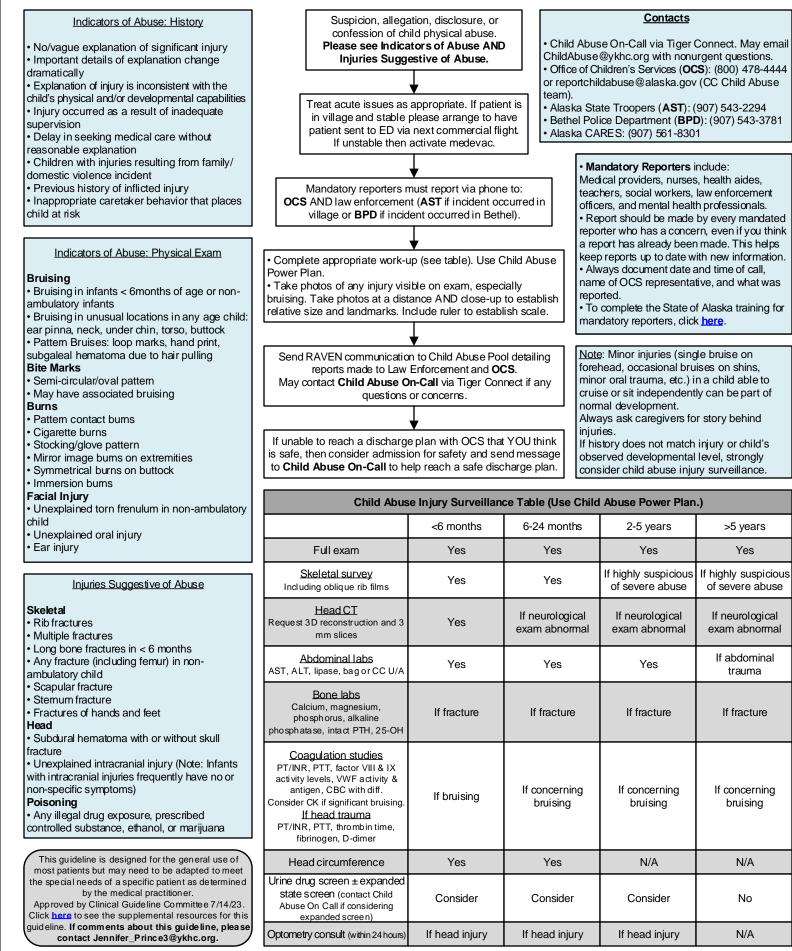
If comments about this guideline, please contact Jennifer_Prince3@ykhc.org.



Yukon-Kuskokwim HEALTH CORPORATION Suspected Physical Abuse Procedure (Pediatric)

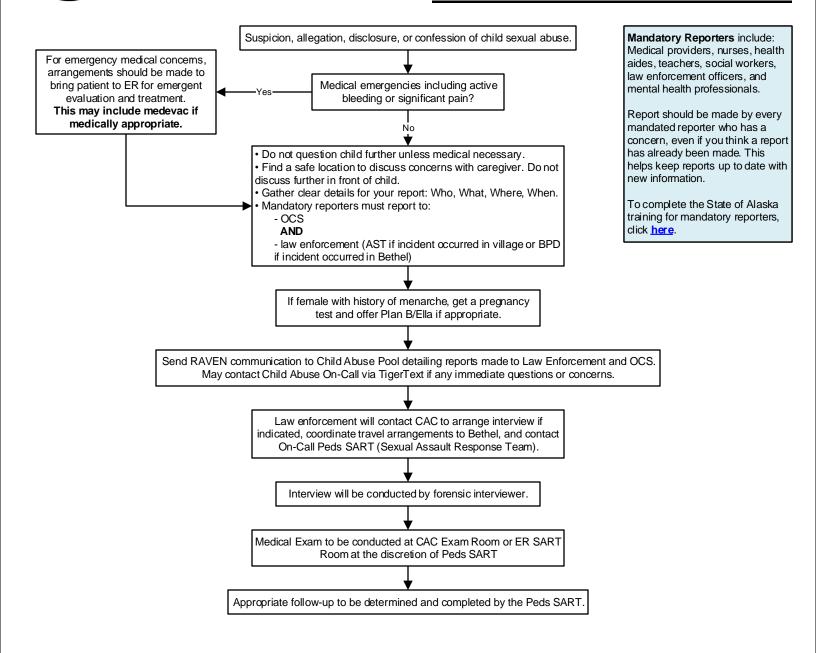
Clinical Guideline

55





Suspected Sexual Abuse Procedure (Pediatric)

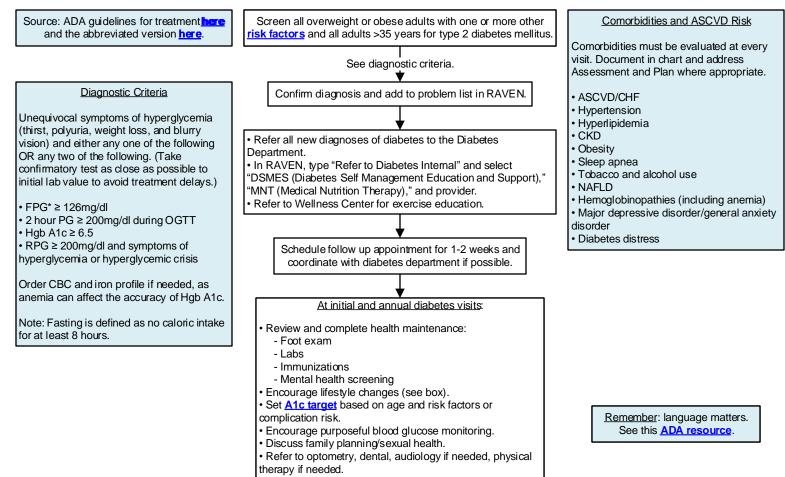


Contacts	Alaska Age of Consent
 On-Call Peds SART: (907) 444- 8643 or TigerText On-Call Peds SART. Child Abuse On-Call via TigerText. May email ChildAbuse@ykhc.org with nonurgent questions. Office of Children's Services (OCS): (800) 478-4444 or 	 The age of consent is 16, provided the older partner is not in a position of authority (example: teacher, coach, minister). Any two people who are over the age of 16 can consent to sex in Alaska, but if one of the partners is under 16, and there is at least a 3 year age difference between the partners, it is illegal for them to have sex and must be reported.
reportchildabuse@alaska.gov. • Alaska State Troopers (AST): (907) 543-2294 • Bethel Police Department (BPD): (907) 543-3781 • Child Advocacy Center (CAC): (907) 543-3144 or (907) 545-1178	This guideline is designed for the general use of most patients but may need to be a dapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by MSEC 3/1/22. Click here to see the supplemental resources for this guideline. If comments about this guideline, please contact Jennifer_Prince3@ykhc.org.



Yukon-Kuskokwim

Clinical Guideline Diabetes Mellitus, Type 2



For Optometry Referrals

• Either provider or patient must call Optometry at x6336 to schedule appointment.

• Provider must state in note that patient is to be referred to Optometry for a diabetic eye exam. This is necessary for travel to be arranged.

Abbreviations/Acronyms

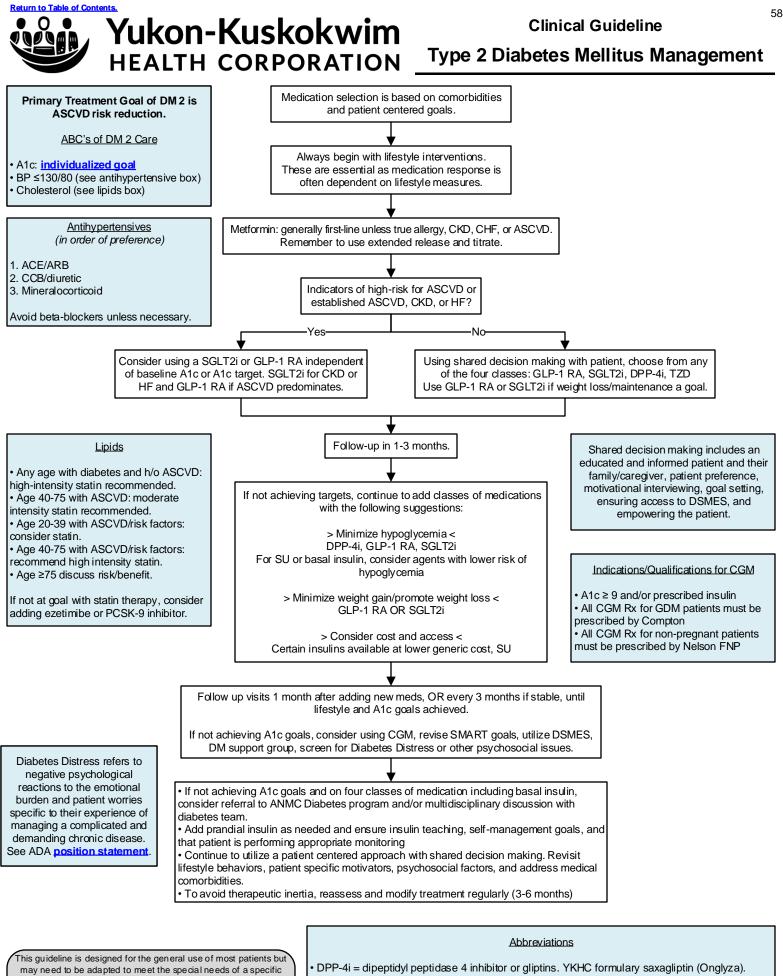
ADA = American Diabetes Association
ASCVD = Arterios clerotic cardiovascular disease
BH = Behavioral Health
CGM = Continuous glucose monitoring
CKD = Chronic kidney disease
CMP = Complete Metabolic Profile
DM = Diabetes mellitus
DSMES = Diabetes self management, education, and support
FPG = Fasting Plasma Glucose
Hgb A1c or A1c for short = Hemoglobin A1c or glycosylated hemoglobin
HTN = Hypertension
MNT = Medical nutrition therapy
OGTT = Oral Glucose Tolerance Test
OSA = Obstructive sleep apnea
PG = Plasma Glucose
RPG = Random Plasma Glucose
SMART = Specific, Measurable, Achievable, Realistic, Time-limited

Lifestyle Changes

- Advise 7-10% weight loss.
- Advise minimum 150 minutes of exercise per week.
- Advise traditional native diet with minimal carbs.
- Encourage PLATE method.
- Advise ≥7-8 hours of sleep per night.
- Encourage DSMES participation.

 Limit alcohol consumption: one drink per day for females and two drinks per day for males.

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may need to be adapted to meet the special needs of most patients but patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 8/23/23. If comments about this guideline, please contact Elizabeth_Tressler@ykhc.org. DPP-4i = dipeptidyl peptidase 4 inhibitor or gliptins. YKHC formulary saxagliptin (Onglyza).
GLP-1 RA = glucagon-like peptide-1 receptor agonist. YKHC formulary liraglutide (Victoza).
SGLT2i = sodium-glucose co-transporter-2 inhibitor. YKHC formulary empagliflozin (Jardiance).
SU = sulfonylureas. YKHC formulary glipizide.



Treatment Protocol

Pediatric Endocrine Protocols

Our pediatric endocrinologist, Dr. Rachel Lescher, has created the following protocols to aide us in managing patients with endocrinologic disorders. Please follow these recommendations.

As always, contact the pediatric hospitalist on call with any questions via the Tiger Connect role, "Peds Wards on Duty." We have access to the endocrinologist call/coverage schedule and can help direct consults as needed.

Endocrine Emergencies

- Protocols for managing the following:
- Severe hypoglycemia
- Adrenal insufficiency/crisis (including patients with CAH)
- Hypercalcemia
- Hypocalcemia
- Thyrotoxic crisis (thyroid storm)

Diabetic Ketoacidosis

- · Definitions and formulae
- Management
- Monitoring parameters
- Discussion and management of cerebral injury
- Prevention
- Sick day plans

Routine Follow-up of Endocrine Disorders

Protocols for managing the following:

- Congenital adrenal hyperplasia
- Congenital hypothyroidism/Hashimoto thyroiditis/goiter
- Hypopituitarism/septo-optic dysplasia/optic nerve hypoplasia
- Short stature work-up
- Growth hormone injections
- Insulin resistance/obesity
- Diabetes mellitus (type 1 and type 2)



Congenital Sucrase-Isomaltase Deficiency (CSID) Resource

Congenital Sucrase-Isomaltase Deficiency (CSID)

This condition leads to an inability to digest

sucrose (table sugar).

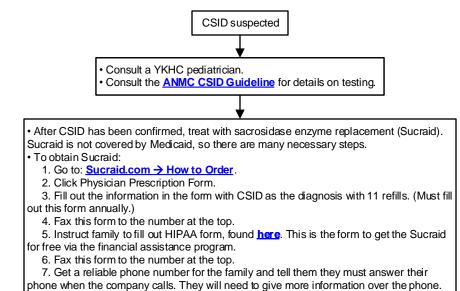
- Signs/symptoms:
 - Watery diarrhea after food containing sucrose

Abdominal pain/distension
 Malnutrition, poor growth, FTT

- Mainuthion, poor growin, FTT

• The condition is seen in Alaska Native people but is often under-diagnosed because patients unknowingly manage it with a traditional diet.

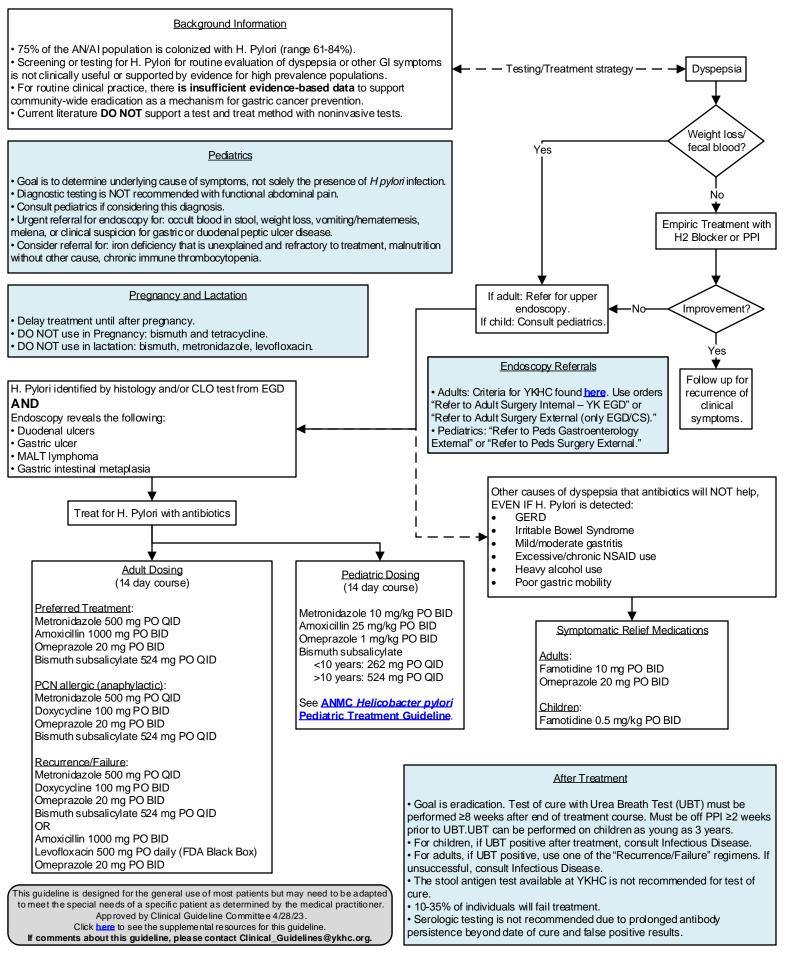
If you are considering this diagnosis, please consult a pediatrician. There are many more resources in the Pediatrics Folder on the vault, including sucrose content of medications and formulas.

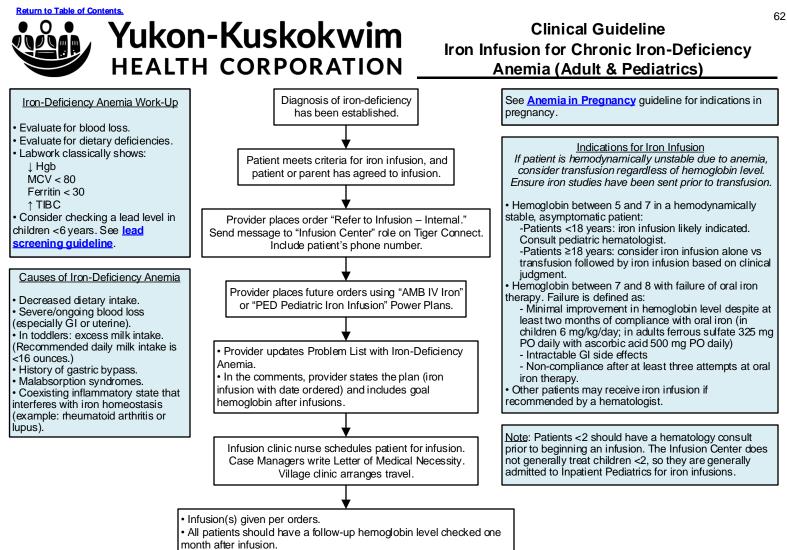


8. Call the company to confirm everything has been arranged: 1-833-800-0122.



H pylori/Dyspepsia (Adult and Pediatric)





· If not at goal hemoglobin, patient should return to Bethel outpatient

clinic for further evaluation.

	Iron Replacement Dose Calculation		Side Effects/Reactions
	Total Iron Replacement Dose (in mg) = $0.6 x$ weight $x \left[100 - \left(\frac{actual her}{desired her} \right) \right]$	noglobin moglobin) x 100]	Efficacy and safety have been evaluated in adults and children older than two years. Consult pediatric hematologist for
 For pediatric patients: Using iron sucrose, this dose should be given in aliquots of 5-7 mg/kg until the full replacement dose has been given. Max dose is 100 mg for initial dose and 300 mg for repeat doses. Per Pediatric Hematology, may give children two iron sucrose doses 24 hours apart and then repeat in 1-2 we Giving more frequent dosing or more than two daily doses in a row results in decreased absorption and increase side effects in children. For adult patients: Dose is typically iron sucrose 300 mg IV daily x3 doses. 			 children younger than two years. Specific reactions (rare): Hypersensitivity, including anaphylaxis and angioedema. Stop infusion immediately and treat as anaphylaxis. Hypotension (related to high total doses or rapid infusions). Stop infusion and treat with IVF, as appropriate. Infection: avoid administering if active systemic infection.
 A pediatri Oncology a 	Resources eds Wards On Duty by Tiger Connect. c hematologist can be reached for further questions at Alaska Pediatric tt (907) 929-3773. lult Hematology Oncology can be reached at (907) 729-1180.	to be a dapted to meet to as determined Approved by Clinic Click <u>here</u> to see the su	• For IV infiltrates, place cold pack. he general use of most patients but may need the special needs of a specific patient by the medical practitioner. cal Guideline Committee 8/23/23. pplemental resources for this guideline.

If comments about this guideline, please contact Leslie_Herrmann@ykhc.org,



Clinical Guideline

Amoxicillin Allergy Trials (Pediatric)



 Only 4-9% of those...labeled [penicillin-allergic] are currently allergic. It is important to identify those who are not allergic, because children mislabeled as penicillin-allergic have more medical visits, receive more antibiotic prescriptions, and have longer hospitalizations with more antibiotic-related complications.¹

• Up to 10% of children develop rashes while receiving antibiotics. Most are diagnosed...as allergic to the implicated antibiotic, and most continue to avoid the suspect antibiotic in favor of alternatives, which may be less effective, more toxic, and more expensive.²

• Do not label a patient as allergic to penicillin/ amoxicillin unless he or she has true hives, anaphylaxis, or a life-threatening reaction. Please include photos of rashes in RAVEN.

Children labelled as allergic to penicillin/amoxicillin often carry that label for the rest of their lives.
Please consult a pediatrician with any questions.

Anaphylaxis

• Acute onset – several minutes to hours from exposure.

 Generalized hives, pruritis or flushing, swelling of lips/tongue/uvula, and at least one of the following:

Dyspnea, bronchospasm, stridor Hypotension

Evidence of hypoperfusion of endorgans

Persistent crampy abdominal pain, and/or vomiting or diarrhea

Hives vs Viral Rash

• True hives are raised, <u>itchy</u>, larger than dime-sized, come and go, move around the body, and change shape and size. True hives are uncomfortable. Ask if the rash bothered

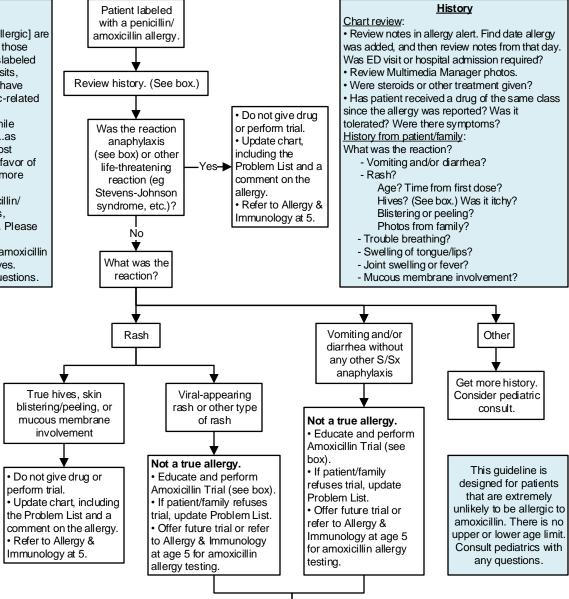
the child. • Keep in mind that many parents refer to any rash as "hives." Get a

description every time.
A viral exanthem is typically diffuse, fine, pinpoint red dots and can be dense, coalesced, larger raised lesions. The rash typically covers the face and chest but can cover the whole body. The rash typically worsens and takes days to clear.

NOTE: If amoxicillin is needed to treat a life threatening infection, consult Allergy & Immunology to discuss possible desensitization. Alaska Asthma, Allergy, & Immunology can be reached at (907) 562-6228.

References 1. Kelso JM. "Provocation challenges to evaluate amoxicillin allergy in children." JAMA Pediatrics 2016;170(6):e160282.

 Mill C, et al. "Assessing the diagnostic properties of a graded oral provocation challenge for the diagnosis of immediate and nonimmediate reactions to amoxicillin in children." JAMA Pediatrics. 2016;17(6):e160033.



Amoxicillin Trial Procedure²

Use AMB Amoxicillin Trial Power Plan.

1. Obtain VS. Perform physical exam, including lung exam. Have appropriate dose of EpiPen or epinephrine. Epinephrine (1 mg/mL): 0.01 mg/kg (or 0.01 mL/kg) IM Q5-15 minutes.

Per AAP recommendations:

- 7.5-25 kg: use EpiPen Jr (0.15 mg)
- ≥ 25 kg: use EpiPen (0.3 mg)

2. Calculate weight-based dose of amoxicillin. Give patient 10% of that dose.

- 3. Place patient in nearby room and instruct caregiver to notify staff of any changes in status.
- 4. If no reaction by 20 minutes, give patient remaining 90% of weight-based dose of amoxicillin.

5. Observe another 60 minutes. If no reaction, check VS and physical exam. If all stable, discharge home with regular course of drug.

6. Give patient and family amoxicillin trial education sheet.

7. Update allergy alert in RAVEN. Click the allergy in the banner. Right click over the drug name and choose "cancel." On the "reason" drop-down menu, choose "OK on Retrial."

Notes:

• If patient is on a beta-blocker, stop this for 24 hours prior to procedure, if possible. Beta-blockers can interfere with treatment for anaphylaxis, if it occurs.

• Ensure that patients with asthma have optimal control prior to this procedure.

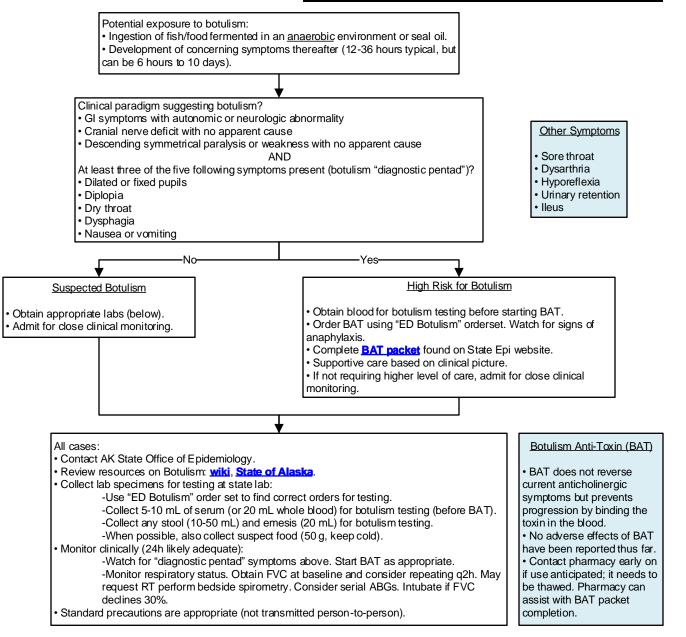
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Clinical Guideline



Yukon-Kuskokwim HEALTH CORPORATION

Suspected Botulism



Resources

 AK State Office of Epidemiology <u>Website</u>: -907-269-8000 (M-F, 8-5) and 800-478-0084 (after hours)
 State Lab <u>Website</u>: -1-855-222-9918

Division of Public Health Healthcare Provider Checklist

This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guidelines Committee 3/13/23. Click here to see the supplemental resources for this guideline. If comments about this guideline, please contact clinical_guidelines@ykhc.org.

<u>Note</u>: Botulism toxin only causes flaccid paralysis. Patients are awake, alert, and aware. Procedures should be explained and appropriate pain control and sedation for intubated patients should be provided.

Infant Botulism:

This is rare, with only 5 reported cases in AK in the past 65 years. If suspected, see Epi Procedure Manual, Botulism at State website.



Definitions

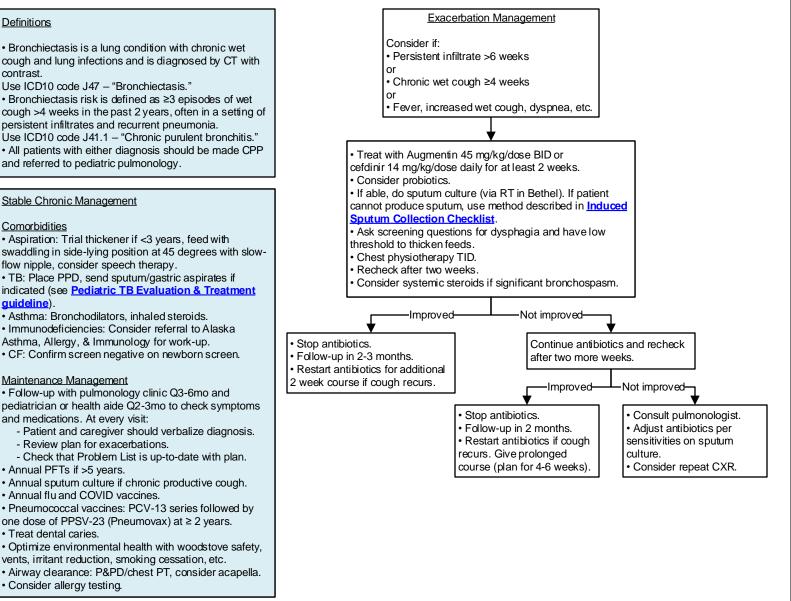
contrast

guideline).

Yukon-Kuskokwim HEALTH CORPORATION

Clinical Guideline

Bronchiectasis/Chronic Cough (<18 years)



Transition of Care

 Review diagnosis and management with patient and caregiver at each visit. Patient and caregiver should verbalize diagnosis, treatment, and exacerbation plan. • At age 17, a pediatrician should review chart and refer patient to pediatric pulmonology for chest CT, treatment plan, and handoff visit.

• By age 18, a pediatrician should schedule a transition of care appointment with family medicine, write an Alert Note that includes a summary of medical history and current treatment plan, and refer to adult pulmonologist.

> This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 5/15/23. Click here to see the supplemental resources for this guideline. If comments about this guideline, please contact Leslie_Herrmann@ykhc.org.



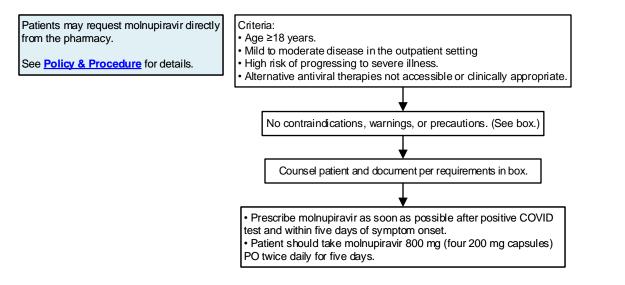
Clinical Guideline

66

Emergency Use of Molnupiravir

Molnupiravir

Mechanism: The oral prodrug of a ribonucleoside with activity against RNA viruses.
Regimen: 800 mg PO twice daily for five days. Initiate within five days of symptom onset.
Main concerns: Risk of fetal toxicity.



	Documentation Requirements for Molnupiravir
Adverse Reactions In the clinical studies quoted in the EUA, the following adverse events were reported: diarrhea, nausea, and dizziness.	Communicate and document the following in the medical record: • Fact Sheet for Patients and Parents/Caregivers given to patient/caregiver. • Inform patient/caregiver of alternatives to receiving molnupiravir. See clinicaltrials.gov for emerging data. • Inform patient/caregiver that molnupiravir is an unapproved drug that is authorized for use under Emergency Use Authorization.
Contraindications, Warnings, and Precautions	
 Molnupiravir is NOT authorized for use in patients who are hospitalized, requiring supplemental oxygen, or requiring more than their baseline supplemental oxygen flow rates due to COVID. Pregnancy: Due to risk of fetal toxicity, molnupiravir is NOT recommended for use during pregnancy. Breastfeeding: Not recommended to breastfeed during treatment period and for four days after the last dose. Instruct patients to pump and discard milk. Patients with childbearing potential: Females: Instruct patients to use effective contraception during the treatment period and for four days after the last dose. Males: Instruct patients with partners of childbearing potential to use effective contraception during the treatment period and for three months after the last dose. Males: Due to risk of bone and cartilage growth disruption, molnupiravir is NOT recommended for patients younger than 18 years old. 	Reporting of Adverse Events The prescribing health care provider is responsible for mandatory reporting of all medication errors and adverse events potentially related to molnupiravir. Reports must be made within seven days of the event. Serious adverse events include: death; life-threatening adverse event; inpatient hospitalization or prolongation of existing hospitalization; persistent or significant incapacity or substantial disruption of the ability to conduct normal life function; congenital anomaly/birth defect; or medical or surgical intervention to prevent death, a life-threatening event, hospitalization, disability, or congenital anomaly. Submit report to FDA MedWatch by completing the online form <u>here</u> . The report should include "use of molnupiravir under Emergency Use Authorization (EUA)" in the "Describe Event" section. See the EDA MedWatch program for more information.
Resource: Fact Sheet for Health Care Providers Emergency Use Authorization (EUA) of Molnupiravir. Updated July 2023. Click <u>here</u> for source.	This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 9/25/23. If comments about this guideline, please contact Leslie_Herrmann@ykhc.org.

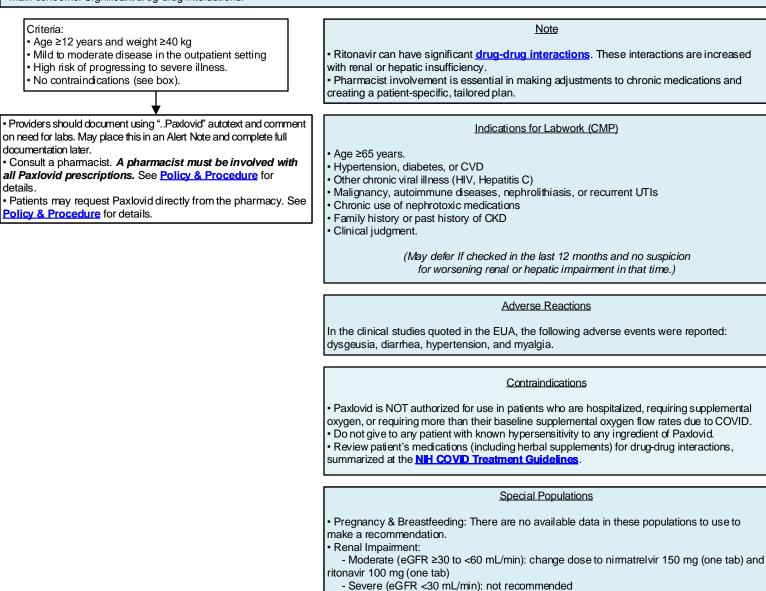


Clinical Guideline Use of Paxlovid

Ritonavir-Boosted Nirmatrelvir (brand name Paxlovid)

 Mechanism: Nirmatrelvir is a protease inhibitor; ritonavir is a cytochrome P450 3A4 inhibitor that increases nirmatrelvir concentrations. • Regimen: Paxlovid is packaged with nirmatrelvir 150 mg x2 and ritonavir 100 mg. Take all three pills (nirmatrelvir 300 mg and ritonavir 100 mg) PO twice daily for five days. Initiate within five days of symptom onset.

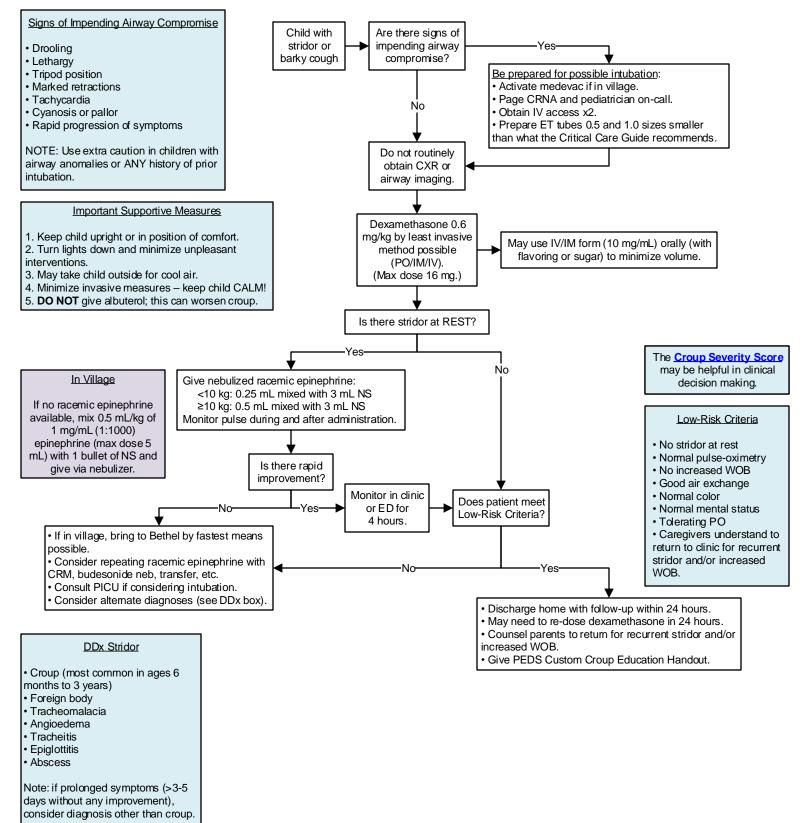
Main concerns: Significant drug-drug interactions.



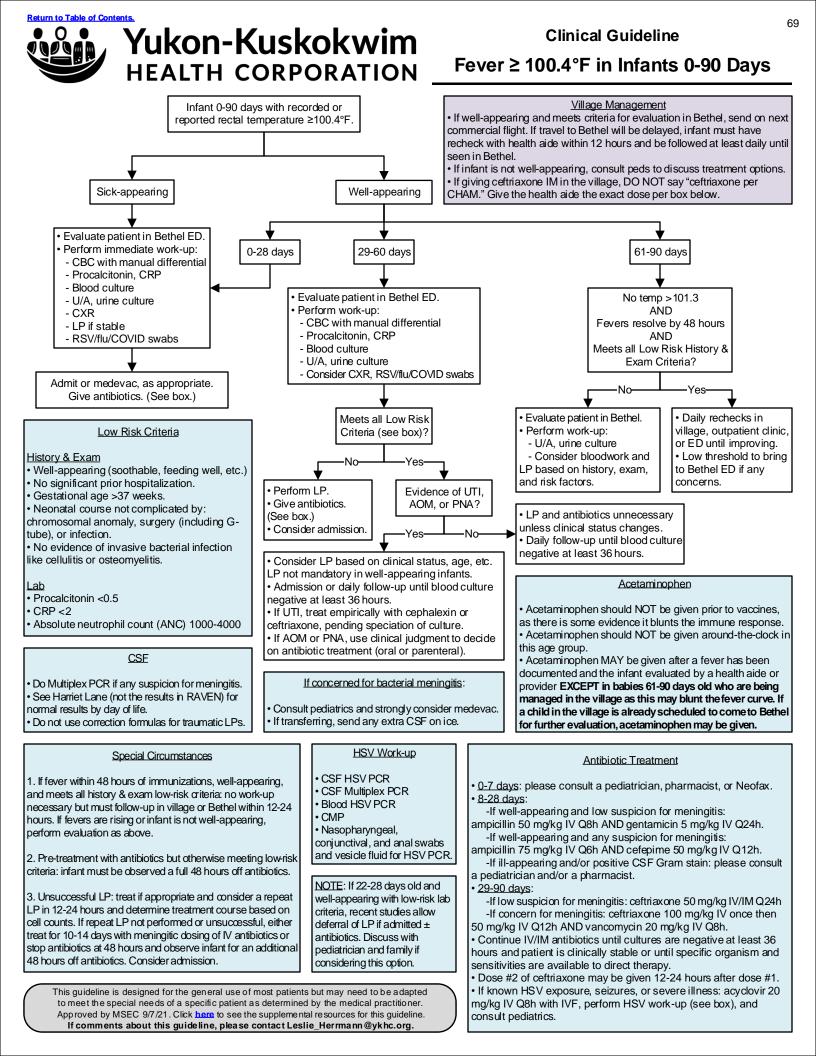
Hepatic Impairment not recommended if Child-Pugh Score Class C.

This guideline is designed for the general use of most patients but may need to be a dapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 9/25/23 If comments about this guideline, please contact Leslie_Herrmann@ykhc.org





This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 11/21/23. Click here to see the supplemental resources for this guideline. If comments about this guideline, please contact Leslie_Herrmann@ykhc.org.





<u>Testing</u>

For thorough information about testing for influenza, please see this page from the CDC.

<u>Treatment</u>

• For guidance on influenza treatment, please see this page from the CDC.

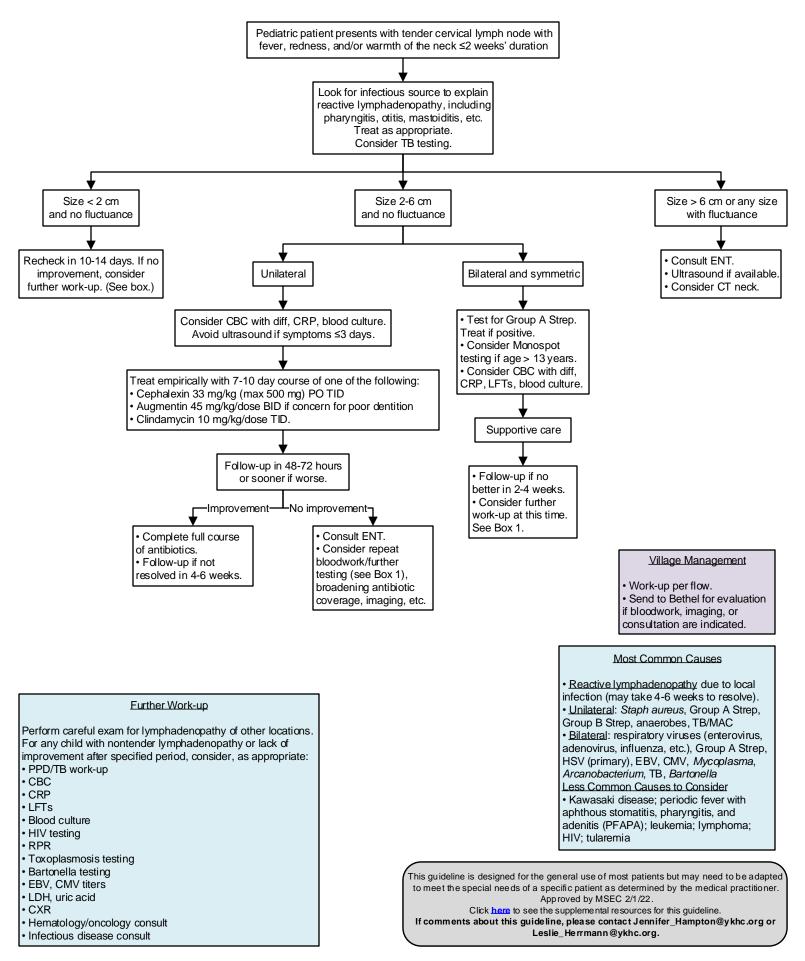
• This includes a list of high-risk conditions that warrant treatment.

• Please note: Oseltamivir is a limited resource. Thus, the YKHC Antimicrobial Stewardship Program recommends that usage be limited to patients with additional risk factors for complications beyond Alaska Native or American Indigenous ethnicity.

70



Lymphadenitis, Acute Cervical (Pediatric)







Clinical Resource

Meningitis: Use of Dexamethasone

The following is adapted from the "<u>ANMC</u> <u>Pediatrics Statement on Dexamethasone</u> <u>and Hearing Screening in Meningitis</u>," dated 2/4/20.

Haemophilus influenzae type A

In recent years, *Haemophilus influenzae* type A (HiA) meningitis has been more common than other causes of bacterial meningitis in children admitted to ANMC. Many of these children have been transferred from YKHC. See this <u>State Epidemiology Bulletin</u> for information about Alaska cases in 2014-2018, including the outbreak in 2018.

The pattern of disease in HiA is similar to that seen in *Haemophilus influenzae* type B (HiB) meningitis. In HiB meningitis, dexamethasone has been shown to decrease the incidence of severe hearing loss. In Alaska, there have been multiple cases of sensorineural hearing loss associated with HiA meningitis. It is suspected that dexamethasone may confer similar benefits in HiA meningitis. As a result, our local experts (including infectious disease and endocrinology experts) recommend giving dexamethasone with all cases of suspected bacterial meningitis.

Dexamethasone

• Indications: A child >6 weeks old with clinical meningitis or visibly purulent spinal fluid.

<u>Timing</u>: First dose should be given 10-20 minutes prior to or concurrent with the first dose of antibiotics; if given after antibiotics have been given, there is no evidence that dexamethasone will improve outcomes.
 <u>Dose</u>: Dexamethasone 0.15 mg/kg/dose IV.

• Course: If dexamethasone is initiated and HiA/HiB is confirmed, continue dexamethasone 0.15 mg/kg/dose IV Q6h for 2-4 days. If CSF culture/PCR show a different pathogen or are negative, stop the dexamethasone.

Hearing Screening

All children with bacterial meningitis should be referred to audiology.
Hearing evaluation should be scheduled one month after hospital discharge.

This resource is designed for the general use of most patients but may need to be a dapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guidelines Committee 4/28/23. If comments about this guideline, please contact Leslie_Herrmann@ykhc.org.



Tecovirimat (also called TPOXX)

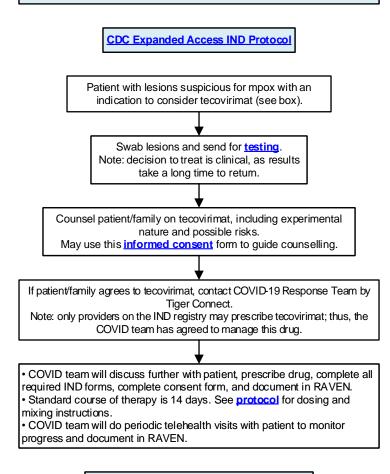
• Tecovirimat is a is an inhibitor of the orthopoxvirus VP37 envelope wrapping protein, which prevents the formation of egress-competent enveloped virions necessary for cell-to-cell and long-range dissemination of virus.

 Tecovirimat is approved by the FDA to treat smallpox under the <u>Animal</u> <u>Rule Regulations</u>. It has not been studied in humans, as smallpox has been eradicated globally, and exposing people to smallpox virus for the purpose of a clinical trial is not ethical.

• Tecovirimat has also not been studied in the treatment of mpox.

However, the FDA and CDC have an expanded access Investigational New Drug (IND) protocol (also known as "compassionate use") that allows tecovirimat to be used to treat mpox under strict requirements. The drug is only available from the Strategic National Stockpile.

• YKHC's Institutional Review Board has approved the use of tecovirimat as long as the <u>CDC/FDA protocols</u> are followed.



Please see <u>these resources</u> for pain management and other supportive measures.

Indications to Consider Tecovirimat

• <u>Severe disease</u>: hemorrhagic disease; large number of confluent lesions; sepsis; encephalitis; ocular or periorbital infections; or other conditions requiring hospitalization.

• Involvement of anatomic areas which might result in scarring or strictures: lesions directly involving the pharynx causing dysphagia, inability to control secretions, or need for parenteral feeding; penile foreskin, vulva, vagina, urethra, or rectum with the potential for causing strictures or requiring catheterization; anal lesions interfering with bowel movements (for example, severe pain); and severe infections (including secondary bacterial skin infections), especially those that require surgical intervention such as debridement.

• <u>Severe immunocompromise</u>: advanced or poorly controlled human immunodeficiency virus (HIV), leukemia, lymphoma, generalized malignancy, solid organ transplantation, therapy with alkylating agents, antimetabolites, radiation, tumor necrosis factor inhibitors, or high-dose corticosteroids, being a recipient of a hematopoietic stem cell transplant <24 months post-transplant or ≥24 months but with graft-versus-host disease or disease relapse, or having autoimmune disease with immunodeficiency as a clinical component.

<u>Pediatric populations</u>: particularly patients younger than 8 years of age.
 <u>Pregnant or breastfeeding people</u>

• <u>Concurrent conditions affecting skin integrity</u>: atopic dermatitis, eczema, burns, impetigo, varicella zoster virus infection, herpes simplex virus infection, severe acne, severe diaper dermatitis with extensive areas of denuded skin, psoriasis, or Darier disease (keratosis follicularis).

Contraindications & Risks

• Patient or legally authorized representative unwilling to sign an informed consent and refuse tecovirimat treatment

Known allergy to tecovirimat and/or inactive ingredients in tecovirimat
For IV tecovirimat only: patients with severe renal impairment (CrCl <30 mL/ min)*. Oral tecovirimat is an option for patients with severe renal impairment.
Co-administration with repaglinide may cause hypoglycemia. Monitor blood glucose and monitor for hypoglycemic symptoms during co-administration.

Adverse Reactions

In a Phase 3 clinical trial, the most common reported events were headache; nausea: vomiting; abdominal pain; and infusion site pain, swelling, erythema, and extravasation. Other events were reported in <2% of patients.

Reporting of Adverse Events

The prescribing health care provider is responsible for mandatory reporting of all medication errors and adverse events potentially related to tecovirimat. Reports must be made within seven days of the event.

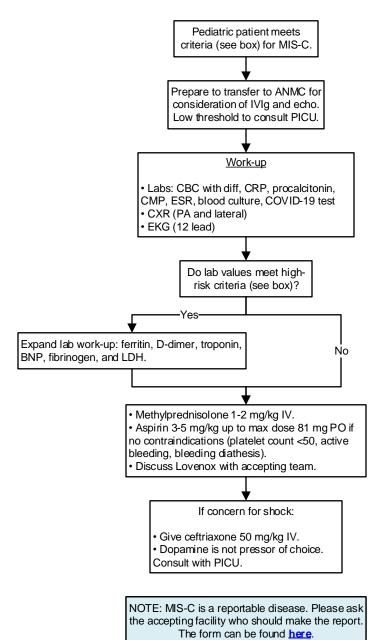
Serious adverse events include: death; life-threatening adverse event; inpatient hospitalization or prolongation of existing hospitalization; persistent or significant incapacity or substantial disruption of the ability to conduct normal life function; congenital anomaly/birth defect; or medical or surgical intervention to prevent death, a life-threatening event, hospitalization, disability, or congenital anomaly.

Submit report to FDA MedWatch by completing the online form <u>here</u>. The report should include "use of tecovirimat under Emergency Use Authorization (EUA)" in the "Describe Event" section.

See the **FDA MedWatch program** for more information.

This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 3/13/23. If comments about this guideline, please contact Leslie_Herrmann@ykhc.org.





Case Definition for Multisystem Inflammatory Syndrome in Children (MIS-C) According to the CDC

An individual <21 years presenting with:

1. Measured or subjective fever $\geq 100.4^{\circ}$ F for ≥ 24 hours.

2. Laboratory evidence of inflammation with one or more of the following: elevated CRP, procalcitonin, ESR, fibrinogen, D-dimer, ferritin, LDH, IL-6, or neutrophils; low lymphocytes or albumin level.

3. Evidence of clinically severe illness requiring hospitalization with at least two organ systems involved:

- Rash: polymorphic, maculopapular, petechial, NOT vesicular
- <u>GI symptoms</u>: diarrhea, abdominal pain, vomiting <u>Extremity Changes</u>: erythema and edema of hands and feet <u>Oral Mucosal Changes</u>: erythema and cracking of lips,
- strawberry tongue, erythema of oral and pharyngeal mucosa
 <u>Conjunctivitis</u>: bilateral bulbar conjunctival injection without exudate
- <u>Lymphadenopathy</u>: cervical > 1.5 cm unilateral
 <u>Neurologic</u>: headache, irritability, lethargy, AMS

4. No alternative plausible diagnoses.

5. Evidence of current or recent (within the last four weeks) COVID-19 infection.

May consider diagnosis even with negative COVID-19 testing if clinical suspicion is high.

High-Risk Lab Criteria

CRP ≥ 3 and/or ESR ≥ 40

AND

Lymphopenia < 1000, thrombocytopenia < 150,000, or sodium < 135

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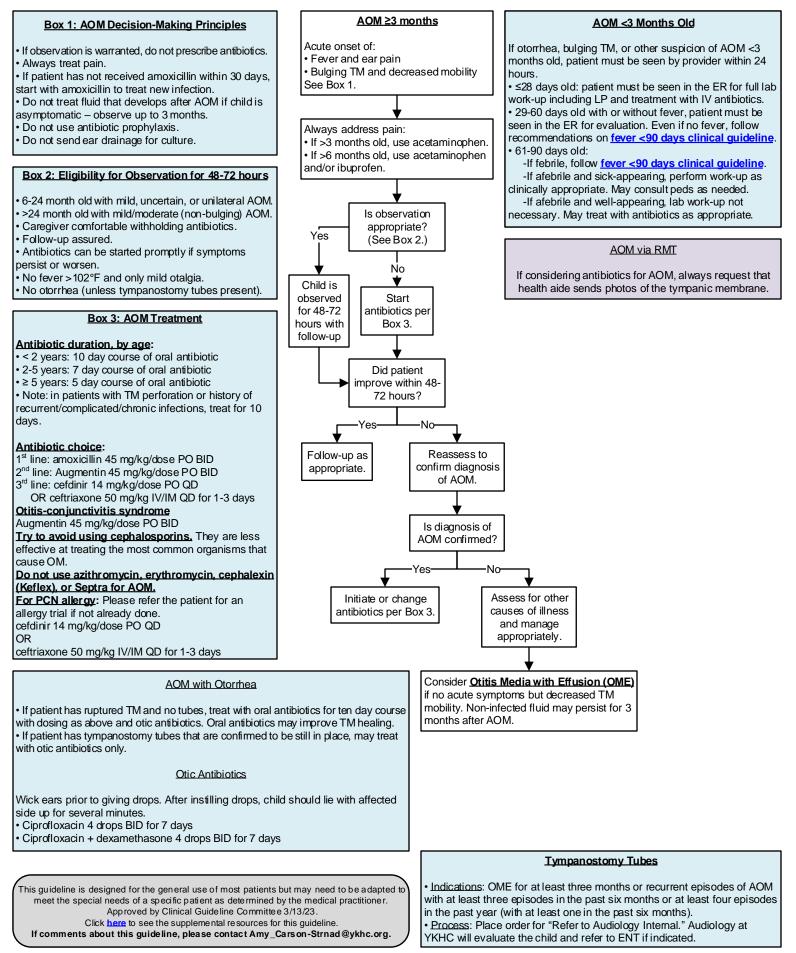
If comments about this guideline, please contact Leslie_Herrmann@ykhc.org

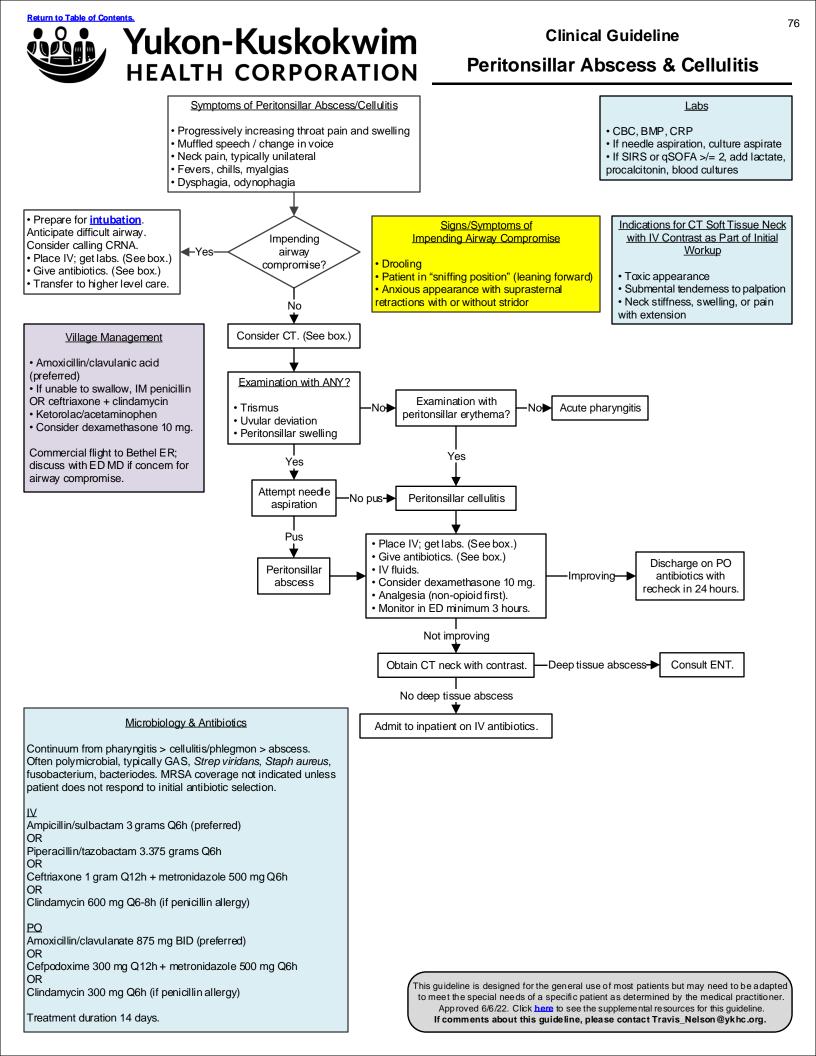


Clinical Guideline

75

Otitis Media, Acute (3 months – 12 years)







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For thorough information about the diagnosis and treatment of Streptococcal pharyngitis, please see this page from the CDC.

Other Considerations:

• Consider testing for oral GC/CT in at-risk populations.

• Testing for Group A streptococcal (GAS) pharyngitis is NOT recommended for acute pharyngitis with clinical features that strongly suggest viral etiology (e.g. cough, rhinorrhea, etc).

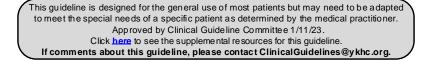
• Routine use of back-up cultures for those with a negative rapid test is not needed for adults; there is a low incidence of GAS in adults and risk of subsequent acute rheumatic fever is exceptionally low.

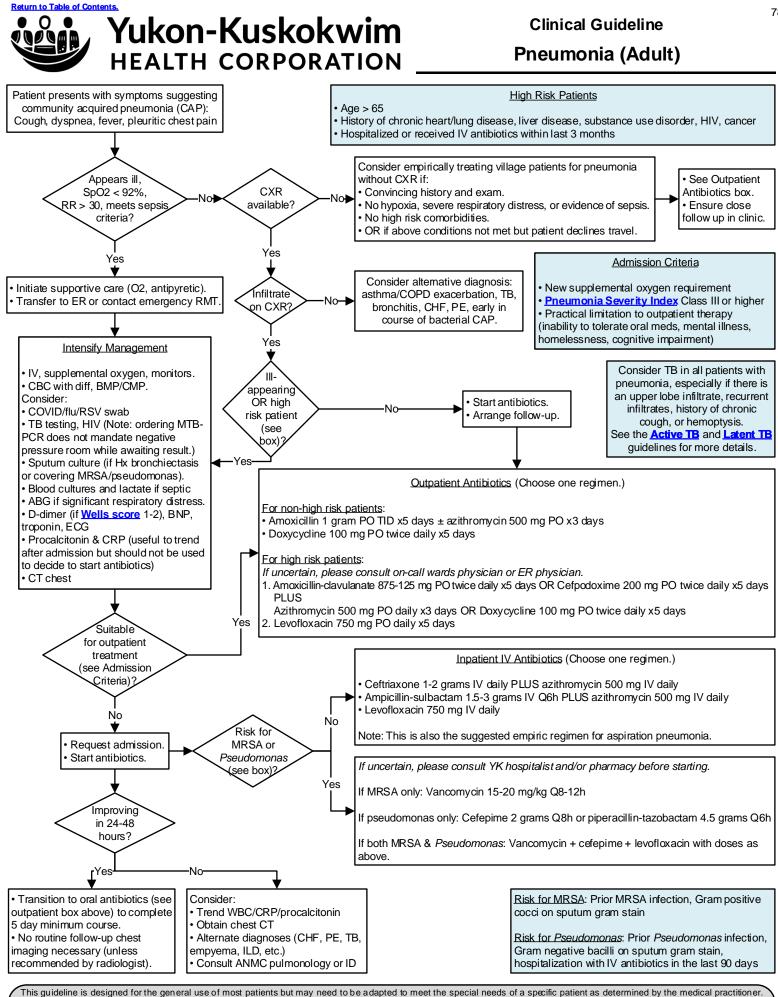
• It is NOT recommended to test for GAS in patients under the age of 3; the risk of rheumatic fever in this age group is exceptionally low.

• Patients are contagious for up to 24 hours after starting antibiotic treatment.

• Treatment for asymptomatic GAS carriers is not recommended, nor is testing or empiric treatment of household contacts.

Refer to <u>Peritonsillar Abscess guideline</u> if appropriate





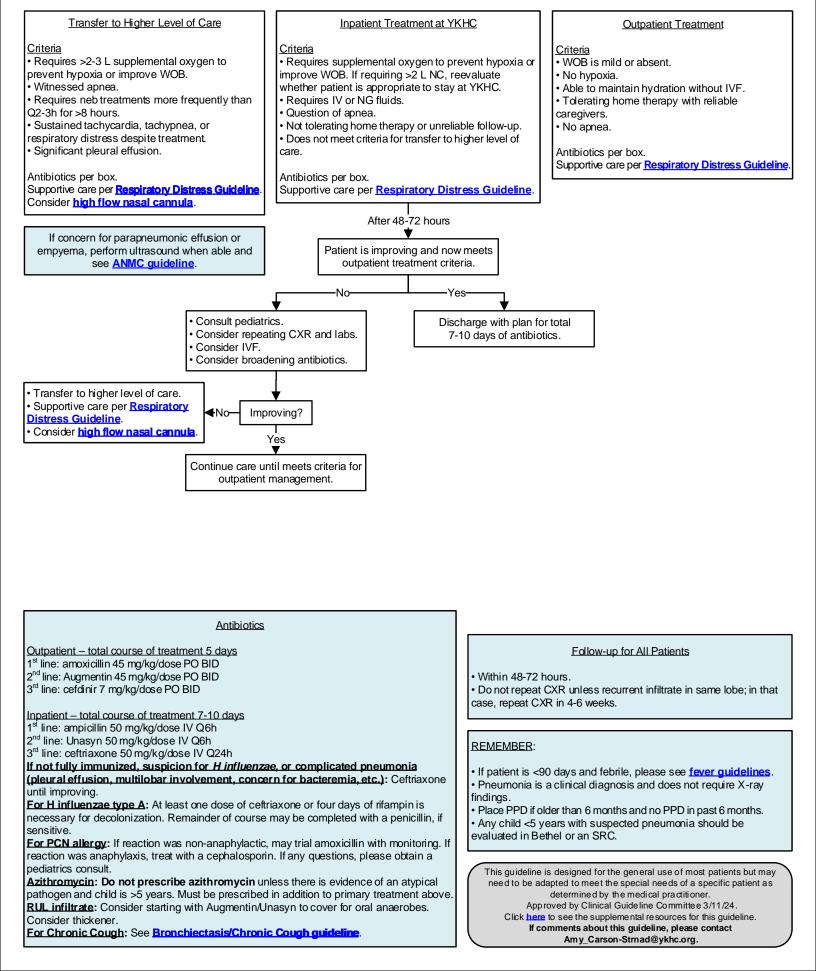
Approved by Clinical Guideline Committee 10/21/22. Click here to see the supplemental resources for this guideline.

If comments about this guideline, please contact Kaia_Pears on @ykhc.org.



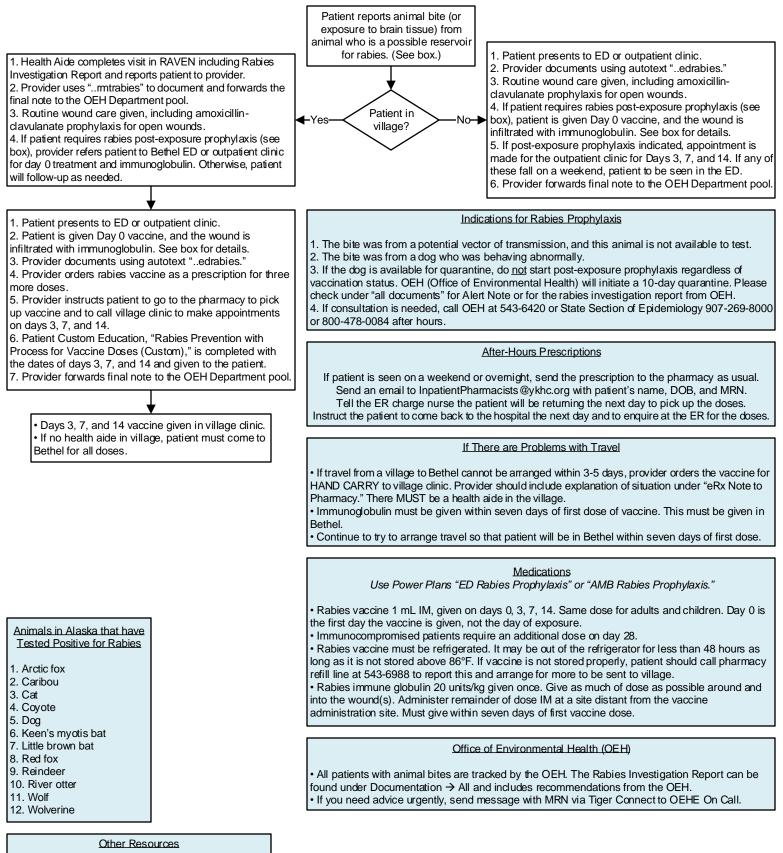
Clinical Guideline

Pneumonia Treatment (3 months - 18 years)



79





See the supplement to this guideline on the wiki.
 State of Alaska DHSS Rables page.

• Use the Power Plans "AMB/ED Rabies Prophylaxis"

to find all necessary orders.

 See Division of Public Health Rabies Post-Exposure Prophylaxis Treatment Sheet.

This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 6/1/23. Click here to see the supplemental resources for this guideline. If comments about this guideline, please contact Travis_Nelson@ykhc.org.



Suspected Septic Arthritis & Osteomyelitis

Please see the <u>ANMC Pediatric Acute Hematogenous</u> <u>Septic Arthritis/Osteomyelitis Guideline</u>.

• Please note: this guideline was designed at ANMC, where recommended labs, MRI, and operative management are immediately available and antibiotics can be started after these interventions.

When evaluating a patient at YKHC with possible septic arthritis or osteomyelitis, strongly consider empiric antibiotics if there is going to be a delay of >6 hours to perform the recommended work-up (joint aspiration, surgical drainage, etc.), as noted in ANMC's guideline.
Always discuss antibiotics with ANMC consultants and advocate for empiric usage if appropriate. Keep in mind possible delays, including weather, transport difficulties, and other emergencies. If deferring antibiotics, ensure that patient is closely monitored for development of worsening infection.

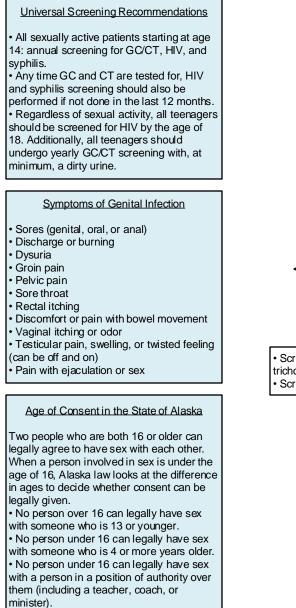
Always feel free to consult YKHC pediatric hospitalist with any questions.

This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guidelines Committee 4/28/23. If comments about this guideline, please contact Leslie_Herrmann@ykhc.org.



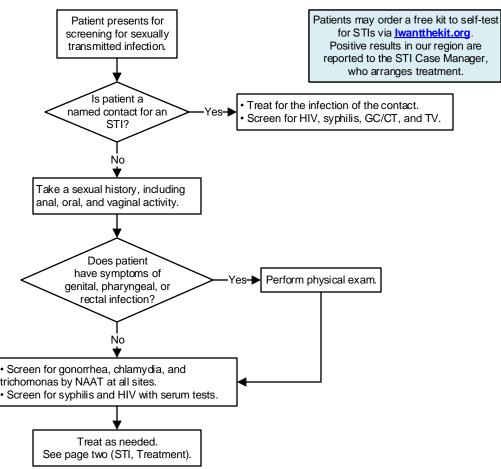
Clinical Guideline

Sexually Transmitted Infections, Screening



A positive STI test in a patient who fits the above scenarios should be reported to OCS, law enforcement (BPD if in Bethel or AST if in a village), and the Child Abuse Pool in RAVEN.

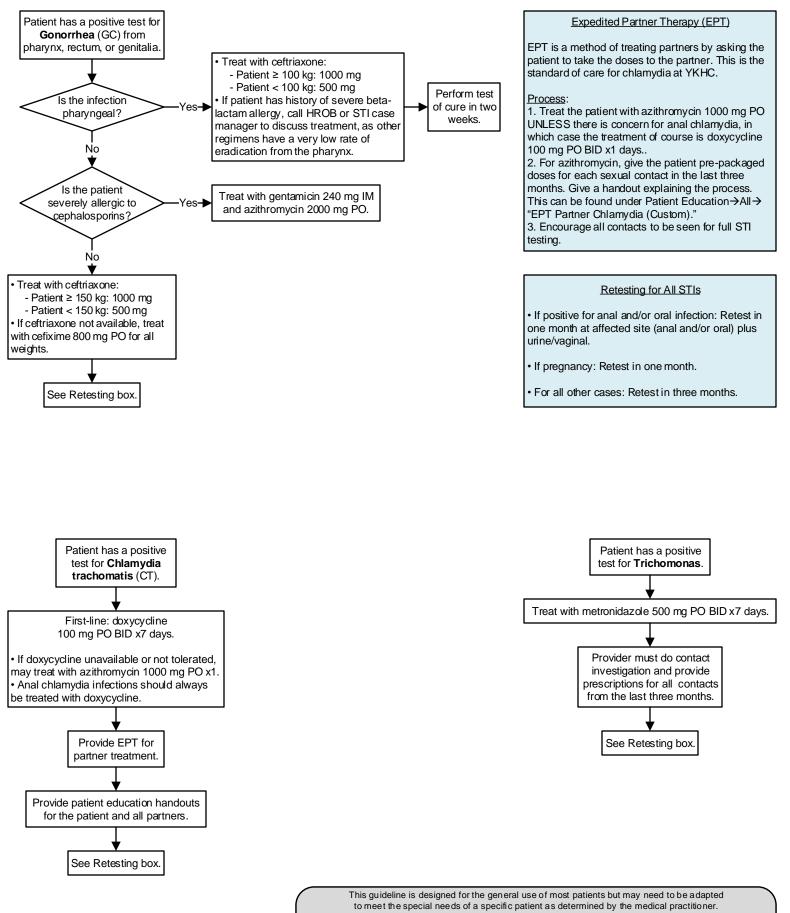
<u>Please note</u>: There is no lower age limit for STI testing. Any patient may be tested, regardless of age, without special consent.





Yukon-Kuskokwim

Sexually Transmitted Infections, Treatment



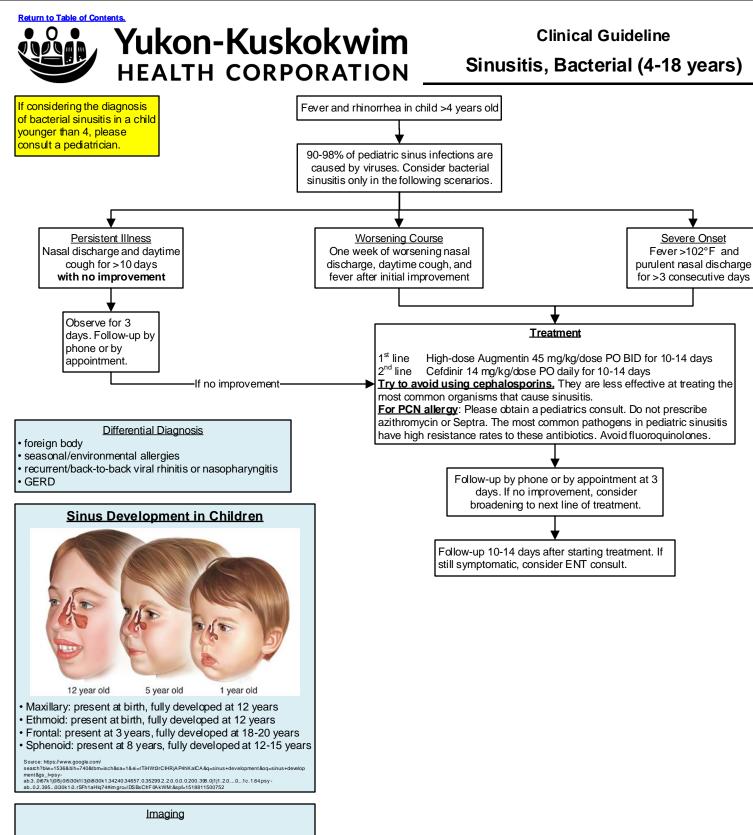
Approved by Clinical Guideline Committee 1/19/24. Click here to see the supplemental resources for this guideline. If comments about this guideline, please contact David_Compton@ykhc.org.



Mycoplasma Genitalium Female patient with either: Persistent or recurring cervicitis This organism has been recently • PID identified in our population. • Prevalence is estimated at 1% in the OR general population but is much higher in individuals at high risk of STIs. Male patient with either: Mgen is a known cause of Non-gonoccocal urethritis nongonococcal urethritis in males. Persistent urethritis cervicitis in females, and possibly pelvic inflammatory disease (PID) in females. It is uncertain whether it causes proctitis in men who have sex with men (MSM). Ensure full STI testing has been performed There is no clear evidence that M. (HIV, syphilis, GC/CT/TV). genitalium is associated with any human Consider retesting for GC/CT. diseases outside the anogenital tract. Treat per guideline. (Source: UpToDate) • Testing should be considered in patients Test for Mycoplasma genitalium (Mgen) using these orders: who have persistent symptoms despite completing an empiric course of Mycoplasma genitalium, NAA swab treatment. Mycoplasma genitalium, NAA urine Collection tubes are: Aptima: yellow for urine, orange for vaginal swab, blue/purple for endocervical swab. Tests are run at the Alaska state public health lab and will take up to a week to result. If NAA positive for Mgen: Doxycycline 100 mg oral BID for 7 days

FOLLOWED BY Moxifloxacin 400 mg oral daily for 7 days. No test of cure or test for reinfection is necessary. No contact tracing is necessary. This in NOT reportable to the state.

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Do not routinely obtain imaging studies in suspected sinusitis unless there is concern for a complication like orbital or CNS involvement.

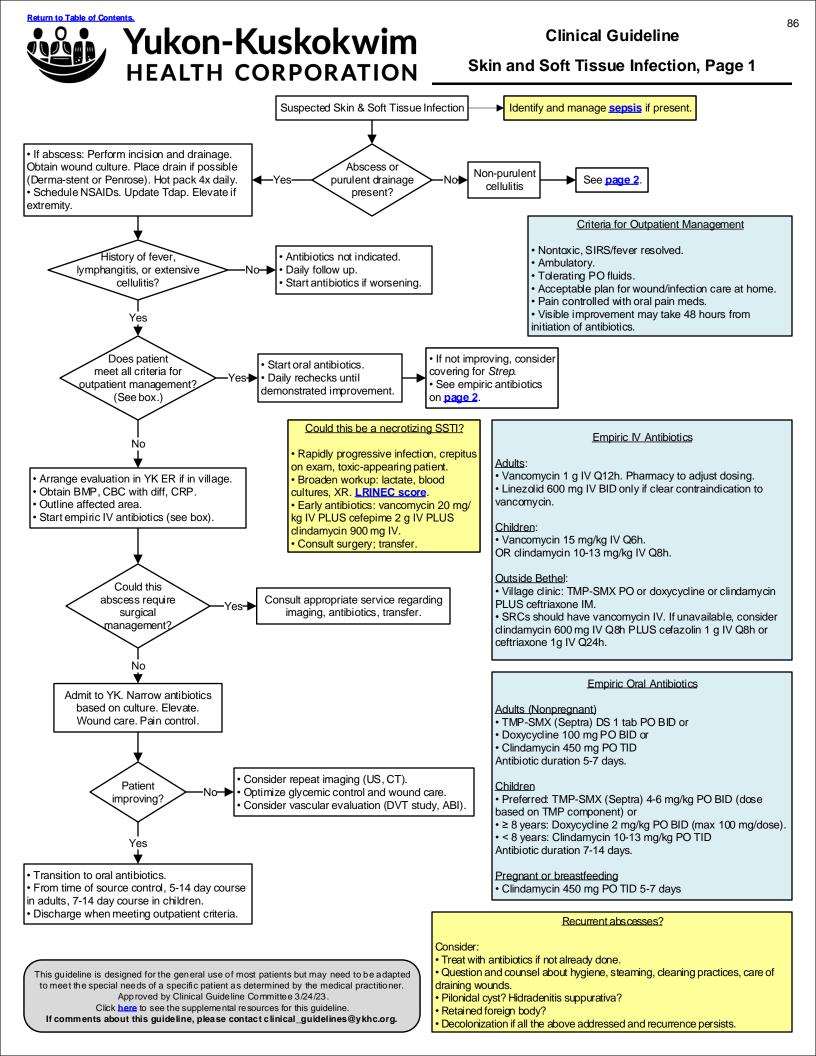
Do not treat sinusitis, in the absence of symptoms, if it is an incidental finding on an imaging study.

Adjuvant Therapies

- Saline nasal spray
- Steam
- Oral hydration
- Tylenol and ibuprofen
- Do not routinely give decongestants and antihistamines (especially Benadryl). They have been proven ineffective in children and are unsafe under 6 years old.

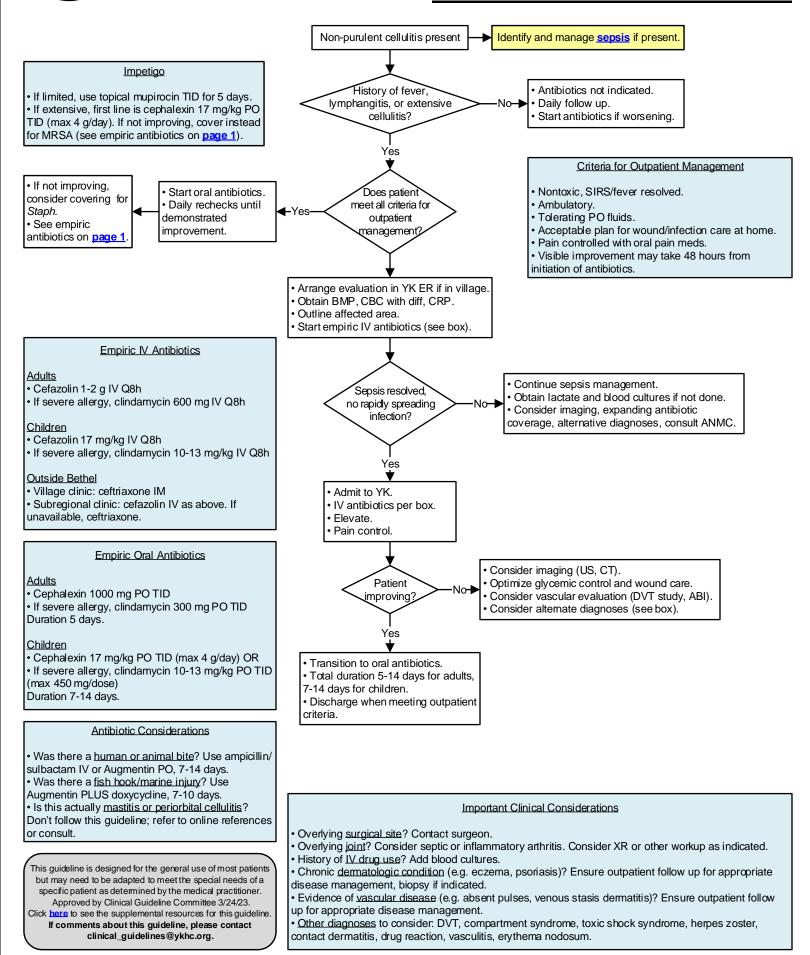
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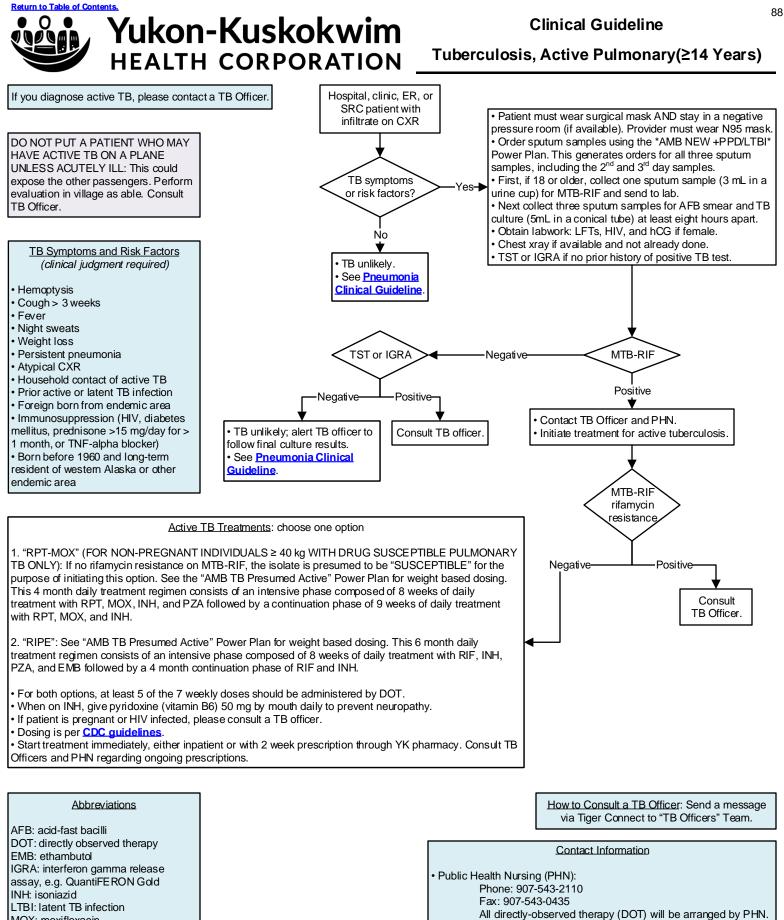
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Skin and Soft Tissue Infection, Page 2





MOX: moxifloxacin MTB-RIF: mycobacterium tuberculosis

nucleic acid amplification test that also tests for rifamycin resistance

PZA: pyrazinamide

RIF: rifampin(a rifamycin)

RPT: rifapentine (another rifamycin) TST: tuberculosis skin test This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved 5/5/22. Click here to see the supplemental resources for this guideline. If comments about this guideline, please contact Robert_Tyree@ykhc.org.

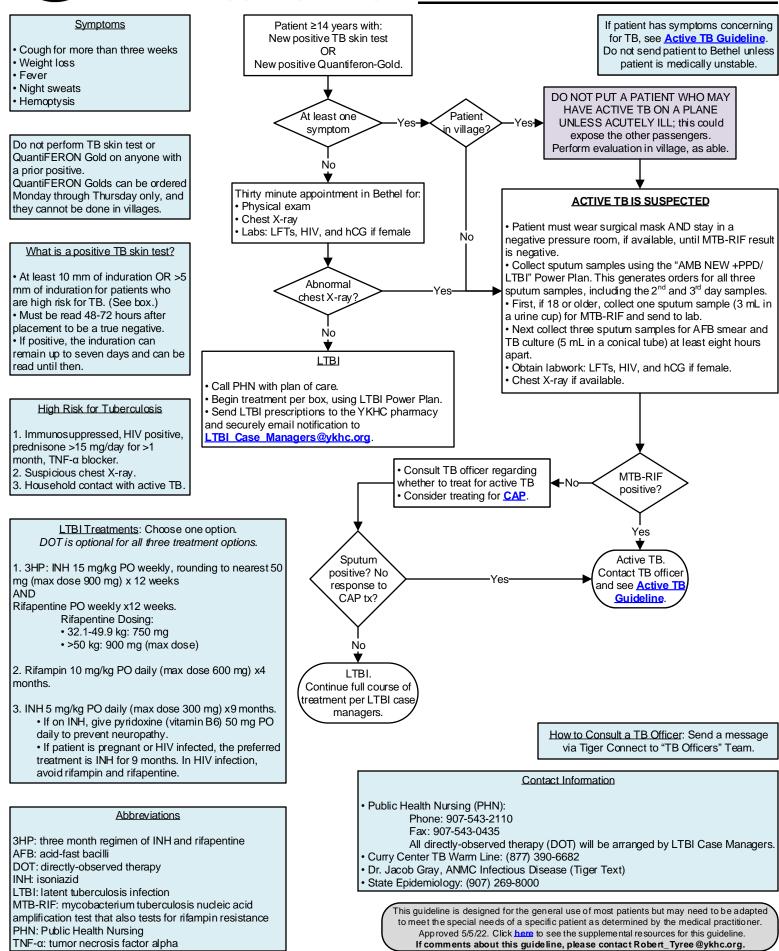
• Curry Center TB Warm Line: (877) 390-6682

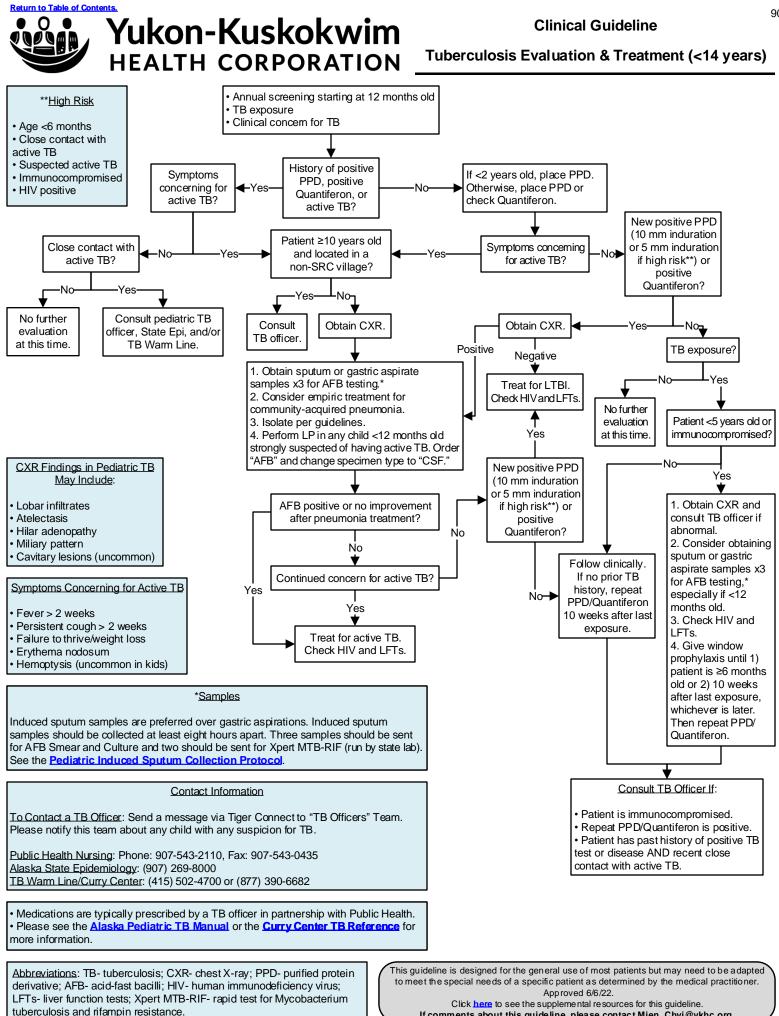
State Epidemiology: (907) 269-8000

Dr. Jacob Gray, ANMC Infectious Disease (Tiger Text)



Clinical Guideline Tuberculosis, Latent (≥14 years)





If comments about this guideline, please contact Mien_Chyi@ykhc.org.





Induced Sputum Collection Protocol

This protocol has been designed to maximize efficacy, use the least invasive measures that are still effective, and minimize hospital length of stay. *Please follow these steps to optimize sample quality.*

 \Box 1. **Premedicate** with albuterol 2.5 mg/3mL (0.083%) solution – 3 mL via nebulizer to induce bronchodilation, facilitate delivery of hypertonic saline, and help prevent bronchospasm during delivery of hypertonic saline. May substitute MDI with mask and spacer. **DO NOT COMBINE with hypertonic saline**.

□ 2. Administer 5 mL of 3% hypertonic saline solution via nebulizer **over a period of at least 10 minutes**. Prolonged administration has been shown to yield better samples.

□ 3. If patient has copious nasal secretions, consider nasal suction with olive tip.

□ 4. Obtain sample using mucus specimen trap with suction catheter appropriate for patient size. Measure from tip of nose to the tragus to cricoid cartilage for depth of catheter insertion and obtain sample via suction of the nasopharynx. The goal is to induce a gag and then a cough. Sample is expected to be blood- tinged.

(Note: This process may induce a vagal response. The patient should be sitting up with feet supported or lying down, NOT standing. If vasovagal syncope does occur, immediately place the patient supine with the legs elevated.)

□ 5. Place specimen in appropriate collection container for desired test.

a. For rule-out pulmonary tuberculosis:

i. Collect three induced sputum samples **at least 8 hours apart** – one must be first morning sample (fasting goal 6-8 hours). Send for Acid Fast Bacilli Smear and Culture. Sample must be in an AFB container (conical with orange top), with a minimum volume of 2 mL (although 5 mL is preferable); sterile water may not be added to dilute sample.

ii. Two samples should also be sent for Xpert MTB-RIF. This test requires 3-5 mL of mucous in a sterile specimen cup. **DO NOT DILUTE**, or "saline wash" nares during suction for this specimen.

iii. AFB and Xpert may be obtained at the same time; if quantity not sufficient for both tests, prioritize the AFB.

b. Standard sputum cultures do not have a minimum volume and can be placed in a sterile specimen cup.

□ 6. Label with full name of collector and date and time of the collection. This should be written **below the barcode**, NOT beside it. **If not labelled correctly, state lab will reject specimen.**

□ 7. Collect specimen in RAVEN. Confirm the correct accession number and deselect any additional (future) accession numbers. *Ensure the collector ID, date, and time entered into RAVEN are an exact match to the written label.*

Contraindications to collecting an induced sputum: oxygen saturation of <92% despite supplemental oxygen therapy, inability to protect the airway, severe bronchospasm, or designation as inappropriate by the clinician for another reason (eg., midface trauma). After exclusion or resolution of these conditions, sputum induction can be considered.

Special considerations:

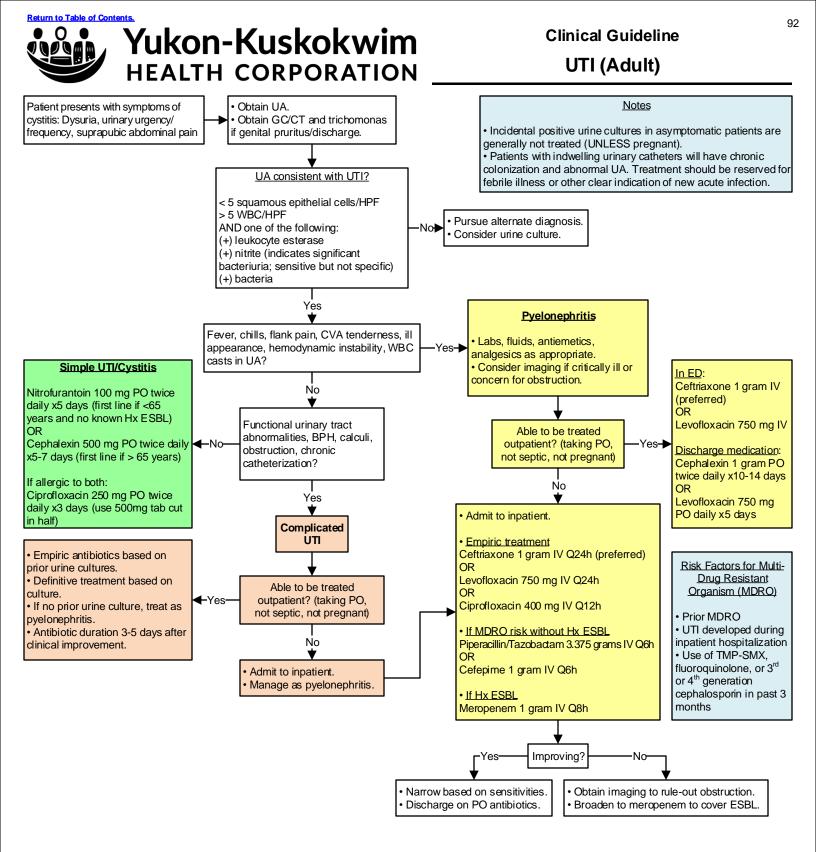
This procedure can also be used for patients who are able to follow instructions but do not have a productive cough. In these cases, suction may or may not be necessary.

While there are no contraindications due to age, for infants younger than 6 months, the sensitivity of induced sputum samples is lower than that of gastric aspirates. Thus, three first morning gastric aspirates collected 24 hours apart or a single first morning gastric aspirate followed by 2-3 induced sputum samples eight hours apart may be preferable. Please consult a pediatric TB officer to discuss this plan.

NOTE: Gastric aspirate samples cannot be sent for sputum culture or Xpert MTB-RIF.

Young infants with CPT1A-AV may need dextrose-containing mIVF while NPO. Very young infants may not tolerate fasting intervals of 6-8 hours; consider allowing breastmilk up to 4 hours pre-procedure and/or clear liquids up to 2 hours pre-procedure.

This protocol is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 12/9/22. Click here to see the supplemental resources for this resource. If comments about this protocol, please contact Kimberly_Tader@ykhc.org.

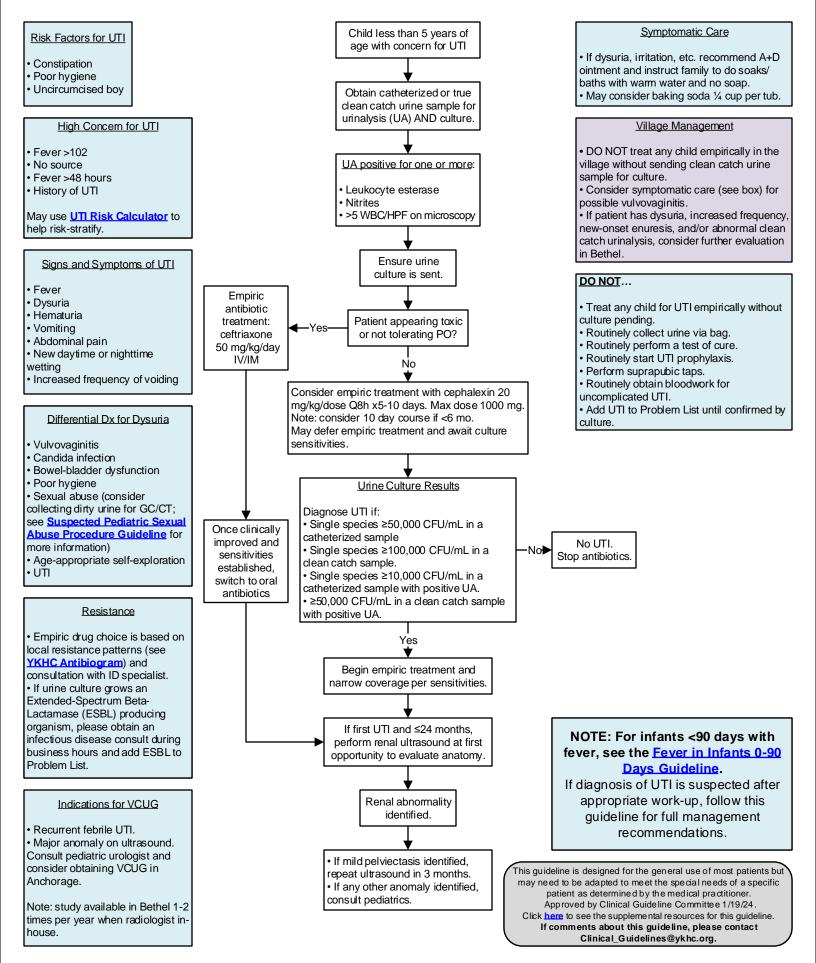


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If comments about this guideline, please contact Kaia_Pearson@ykhc.org.

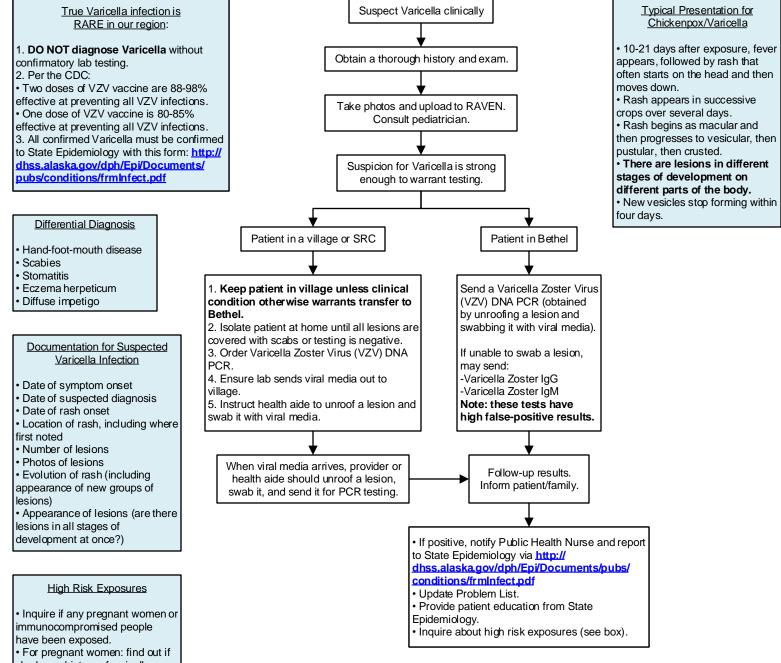


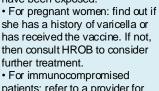
Clinical Guideline UTI (3 months – 5 years)





Clinical Guideline Varicella, Suspected





patients: refer to a provider for evaluation.

Note: Unconfirmed cases must still receive the vaccine. There is no increased harm in vaccination if the patient had varicella in the past.

> This guideline is designed for the general use of most patients but may need to be a dapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 1/19/24. Click here to see the supplemental resources for this guideline. If comments about this guideline, please contact Leslie_Herrmann@ykhc.org.



Clinical Resource

PAMC/YKHC Post-NICU Caffeine Protocol

IF ANY CONCERN FOR APNEA, please consult a pediatrician immediately to determine need for further evaluation, transfer, medevac, etc.

Recommendations on Management of Caffeine After NICU Discharge

- Recommended dose of caffeine is 12 mg/kg PO daily.
- Patient should be seen in Bethel by a pediatric provider within one week of returning to the region.

• Dose should be weight-adjusted every 1-2 weeks. This can occur in outpatient clinic with a pediatric provider or a pediatric consult, in an SRC with a pediatric consult, or in a village by RMT to Chronic Peds.

Stop the caffeine when the baby is 42 weeks corrected gestational age.
Discontinuation of caffeine may be delayed for another week so as not to

coincide with immunizations, recent URI, or planned anesthesia (as all of these events can cause re-emergence of intermittent hypoxia with periodic breathing).

When a Baby is Discharged from the NICU on Caffeine

• Update the Problem List with the plan, including the target dose, how often to weight-adjust, and the expected end date (when 42 weeks corrected gestational age will be).

• Write a prescription for the caffeine. Include the target dose. Under "eRx Note to Pharmacy," state "do not fill until family calls for refills."

Assess caffeine dose at every encounter.

Rationale

• In the past, premature infants were given caffeine until about 34 weeks post-menstrual age. Some needed caffeine past this point and went home on caffeine and an apnea monitor.

• Recent studies have shown that many preterm infants who have been taken off caffeine will go on to have intermittent hypoxia and subclinical apnea and bradycardia events after discharge from the hospital.

• Evidence is also building that prolonged use of caffeine results in better neurodevelopmental outcomes.

• As of January 2019, caffeine has been continued in preterm infants after discharge from the PAMC NICU.

• The PAMC NICU stopped the routine use of apnea monitors for babies discharged on caffeine due to sub-optimal monitor technology and frequent frustration among parents and providers. They prefer to emphasize the importance of giving caffeine rather than use of apnea monitors.

Source

Adapted from letter from Alaska Neonatology Associates, Inc., Pediatrix Medical Group, an affiliate of MEDNAX. 1/10/2019 Providence Alaska Medical Center (PAMC) Neonatal Intensive Care Unit (NICU)

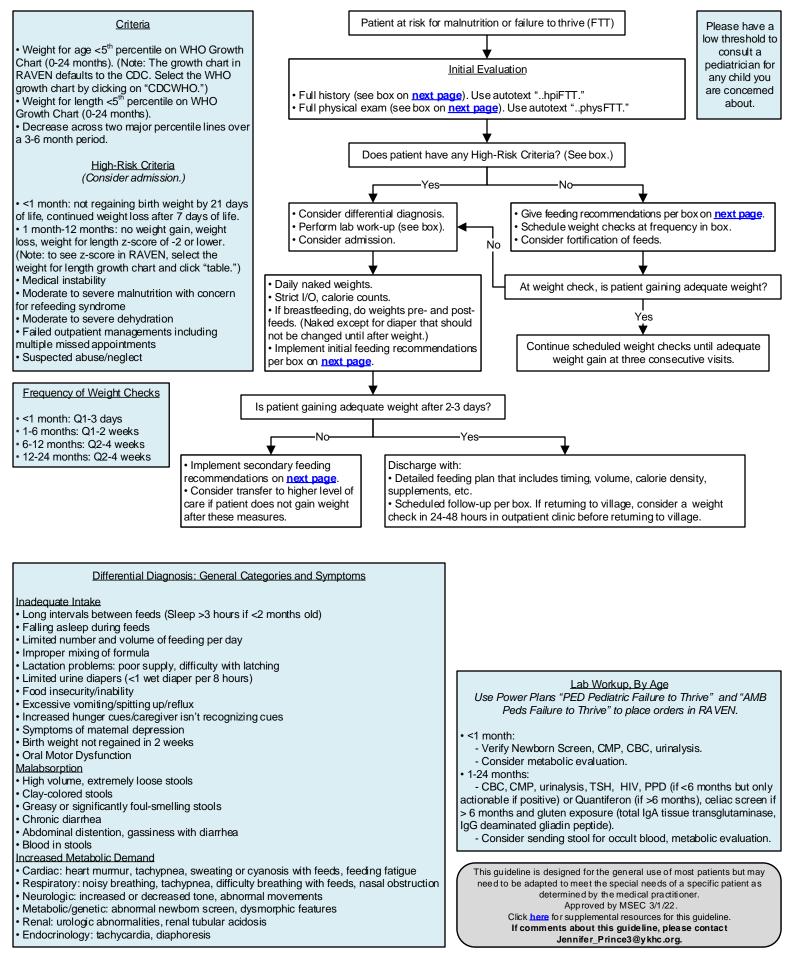
This resource is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 1/11/23. If comments about this resource, please contact Leslie_Herrmann@ykhc.org.

95



Clinical Guideline

Failure to Thrive in Children <24 Months







Failure to Thrive in Children <24 Months

<u>History</u> Use autotext "hpiFTT" to document in RAVEN.	<u>Physical</u> Use autotext "physFTT" to document in RAVEN.	
 Reflux Coughing, choking, gagging, or any respiratory symptoms with feeds Spitting up/vomiting 	Abnormal movements Caloric Needs by Age	J
Analyzing francisco and all an anti-state francisco de		

- Spitting up - Arching, fussiness, or discomfort with feeds

Social

- Who feeds the baby? Who lives at home? Is there a feeding schedule?
- If bottle fed, are there concerns about obtaining enough formula?

Elimination

- Number of wet and stool diapers per 24 hours
- Stool appearance (consistency, color, any orange/red crystal/powder, any blood or mucus)

Please see ANMC's Preterm Nutrition Resource for more information, including recipes for mixing high caloric density formula.

Initial Feeding Recommendations

Breastmilk/Formula

- Minimum Intake Recommendations:
- Term Infant: 108 kcal/kg/day = 162 mL/kg/day of 20 kcal/oz formula/breast milk - Preterm Infant: 110-130 kcal/kg/day = 177 mL/kg/day of 22 kcal/oz preterm formula
- Feeding Frequency:
- <3 months: Q3h or ≥8 feeds/day. No more than 3 hours between feeds.
- ≥3 months: Q3h during day with ≥6 feeds/day
- Wake the baby to feed if necessary.

For Solids

- Infant must be taking at least 24 oz/day of formula or breastmilk.
- Limit any other fluids like water or juice.
- By 12 months, goal 4-6 servings of >4 tablespoons per day.

Secondary Feeding Recommendations

 If patient is able to tolerate goal feed volume, increase volume by 10% to max 180 mL/ kg/day OR increase caloric density by 2 kcal/ounce to max 24 kcal/ounce. Allow at least 24 hours to assess tolerance to any changes.

- If patient is taking solids and >9 months, consider increasing calories in solids.

• If patient is not able to consistently and safely take enough by mouth to gain weight, consider NG feeds.

This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by MSEC 3/1/22. Click here for supplemental resources for this guideline. If comments about this guideline, please contact Jennifer_Prince3@ykhc.org.

If preterm, use corrected age.

• <37 weeks: 110 -130 kcal/kg/day

12-24 months: 75-95 kcal/kg/day

7-12 months: 98 kcal/kg/day

Age (corrected)

4 weeks-2 months

2-4 weeks

2-3 months

3-4 months

4-5 months

5-6 months

6-8 months

8-10 months

10-12 months

12-15 months

15-18 months

18-21 months

21-24 months

• 37 weeks-6 months: 108 kcal/kg/day

Average Daily Weight Gain by Age

Median (grams/day)

Boys

34

40

27

21

17

14

11

9

8

4.5-10

4-9

4-9

3.5-9

Girls

29

34

24

20

16

13

11

9

8

4-9.5

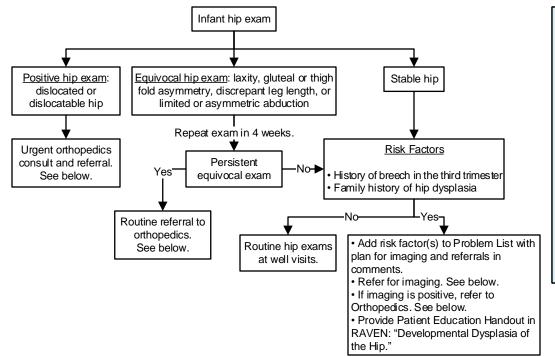
4-9.5

4-9.5

3.5-9



Infant Hip Exam and Surveillance Protocol



. The Barlow test is for laxity of the hip joint. It should be performed gently with no posterior force. If positive, you will feel laxity or the hip will sublux or dislocate. The Ortolani test is the maneuver to reduce a dislocated hip. If positive, you will feel a clunk. • Per the AAP, "One can think of the Barlow and Ortolani tests as a continuous smooth gentle maneuver starting with the hip flexed and adducted, with gentle anterior pressure on the trochanter while the hip is abducted to feel whether the hip is locating into the socket, followed by gently adducting the hip and relieving the anterior pressure on the trochanter while sensing whether the hip slips out the back. The examiner should not attempt to forcefully dislocate the femoral head." See this video for AAP guidance on these exam maneuvers.

Barlow and Ortolani Tests

Orthopedics Consults & Referrals

- 1. Consultation:
 - Beneficiary patients: contact ANMC orthopedic surgeon on call at (907) 563-2662 (*97) or send message through Tiger Connect.
 - Non-beneficiary patients: contact Ken Thomas, MD at Anchorage Fracture & Orthopedics at (907) 563-3145.
- 2. Referral:
 - Place an order for "Refer to Orthopedics External" with brief history. Note the orthopedist who was consulted. Indicate where the referral should be sent.
 - Send a RAVEN Communication to Chronic Peds Case Manager Pool about the referral and level of importance.

Imaging

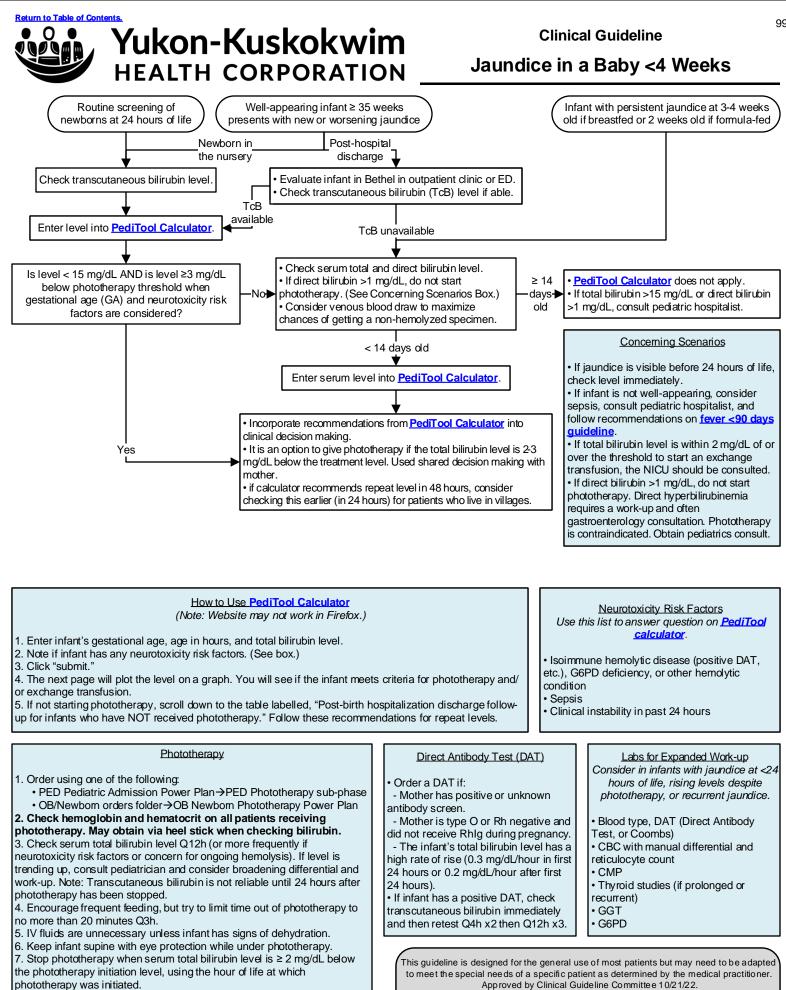
Patient must have either ultrasound or X-ray, as below.

- 1. Hip ultrasound: 6 weeks to 4 months of age.
 - Performed at ANMC for beneficiaries and Alaska Regional Hospital for non-beneficiaries.
 Place order for "Refer to Pediatric Clinic External (MRI / EEG / VFSS / Hip US)" with
 - brief history.
 - If patient is a beneficiary, request follow-up appointment at Southcentral Foundation Team B.
 - If patient is not a beneficiary, request follow-up appointment with a pediatric provider in Bethel.
 Send a RAVEN Communication to Chronic Peds Case Manager Pool about the referral and level of importance.

2. X-ray, AP pelvis: over 4 months of age. (Note: in premature infants, ossification of femoral heads is delayed. May use corrected gestational age of 4 months or later.)

- Performed at YKHC.
- Place an order for "XR Pelvis (Pelvis AP only)" and put in comments "AP view with hips in neutral position to rule-out developmental dysplasia of the hip."
- Send a RAVEN Communication to Chronic Peds Case Manager Pool stating the order was placed and requesting an appointment for this with a pediatric provider in Bethel.

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8. Obtain rebound bilirubin level 6-12 hours after stopping phototherapy if patient required phototherapy in first 48 hours of life, if concern for hemolysis, or if DAT positive.

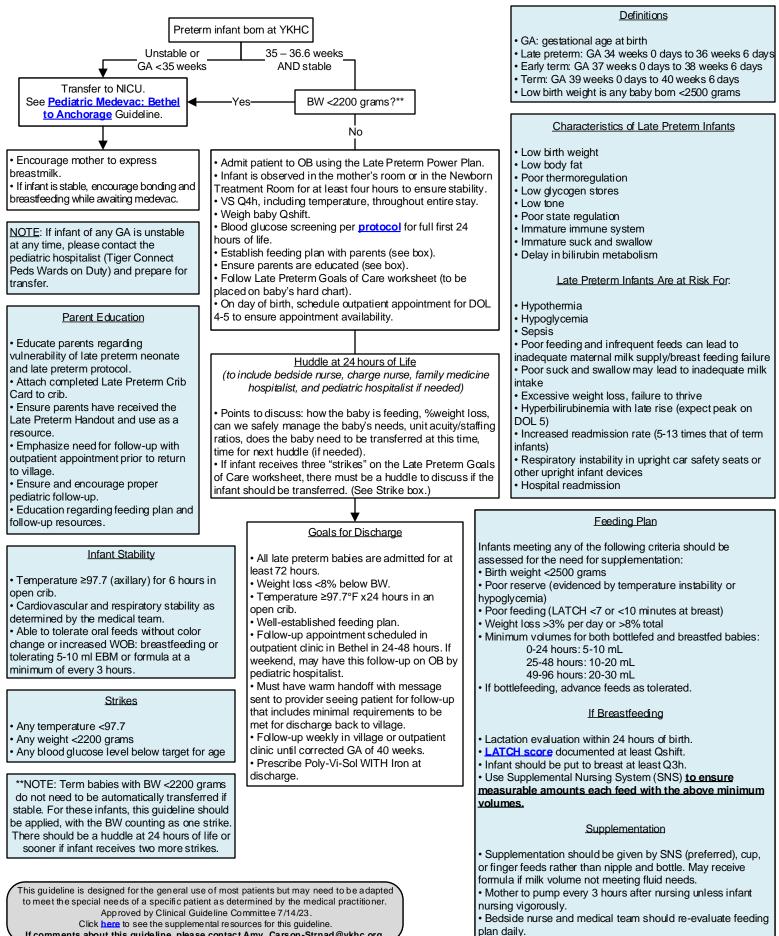
Approved by Clinical Guideline Committee 10/21/22. Click here to see the supplemental resources for this guideline. If comments about this guideline, please contact Justin_Willis@ykhc.org or

Mien_Chyi@ykhc.org.



Yukon-Kuskokwim HEALTH CORPORATION Care of Late Preterm & Low Birth Weight Newborns

100

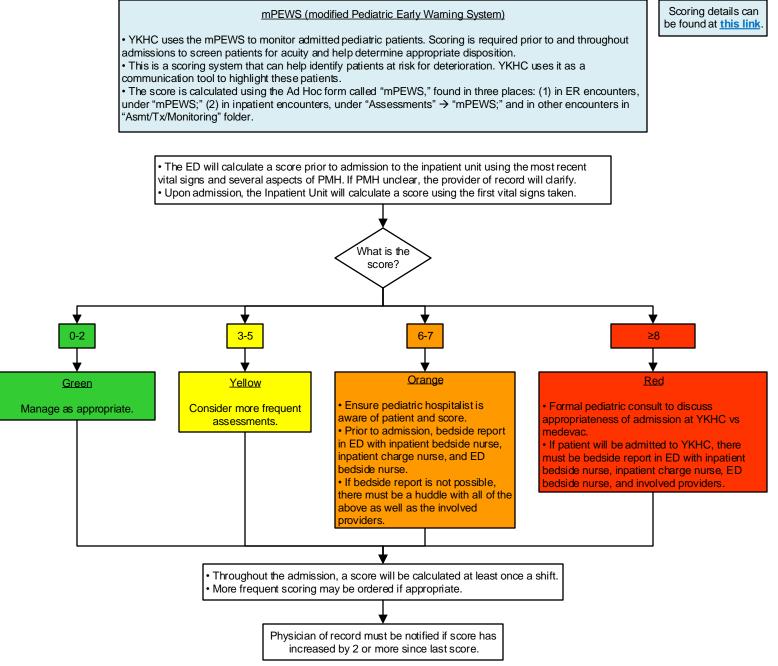


If comments about this guideline, please contact Amy_Carson-Strnad@ykhc.org.





mPEWS Protocol for Pediatric Patients



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101

Return to Table of Contents



Neonatal Nasal CPAP Set-Up Guide

Indications for Use

Neonate with respiratory distress.

- Head circumference ≤39 cm and age ≤2 months.
- Has stabilized on CPAP via NeoPuff.
- Must have a respiratory rate (NO apnea).
- Anticipated prolonged need for CPAP at YKHC due to weather, NNP team unavailable for transport, etc.
- Note: If newborn <26 weeks, discuss with NICU prior to use.

Mask/Bonnet Set-Up

- 1. Measure the head circumference with the tape provided to determine the correct bonnet size.
- 2. Place the bonnet on the baby's head. Make sure to cover the bottom of the ears and the back of neck.
- 3. Mount the mask on the tubing.
- 4. Attach the fixation pillow to the hat, secure the tubes in the grooves, and secure with Velcro.
- 5. Use the fixation straps to hold the mask in place.
- 6. To hold optimal pressure, try to keep the infant's mouth closed. May offer a pacifier with Sweet-Ease.



See the YKHC Neonatal Resuscitation Summary for weight-based drug doses and equipment.

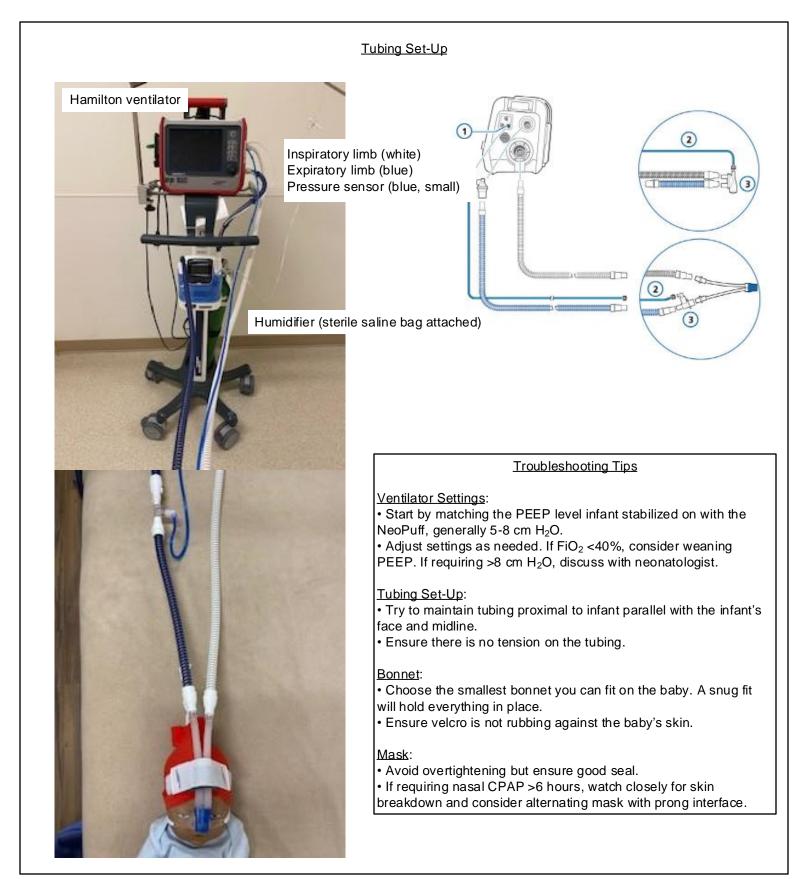
> This resource is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 2/9/24

If comments about this resource, please contact Zoe_Storck@ykhc.org

Note: If using on a nonnewborn, must request NNP/ neonatal transport team to ensure level of support can be maintained during transport.

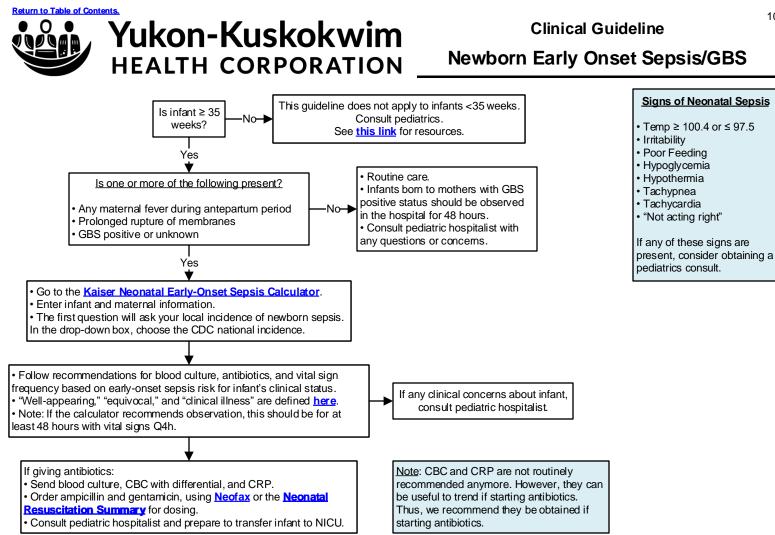


Neonatal Nasal CPAP Set-Up Guide



See the YKHC <u>Neonatal Resuscitation Summary</u> for weight-based drug doses and equipment.

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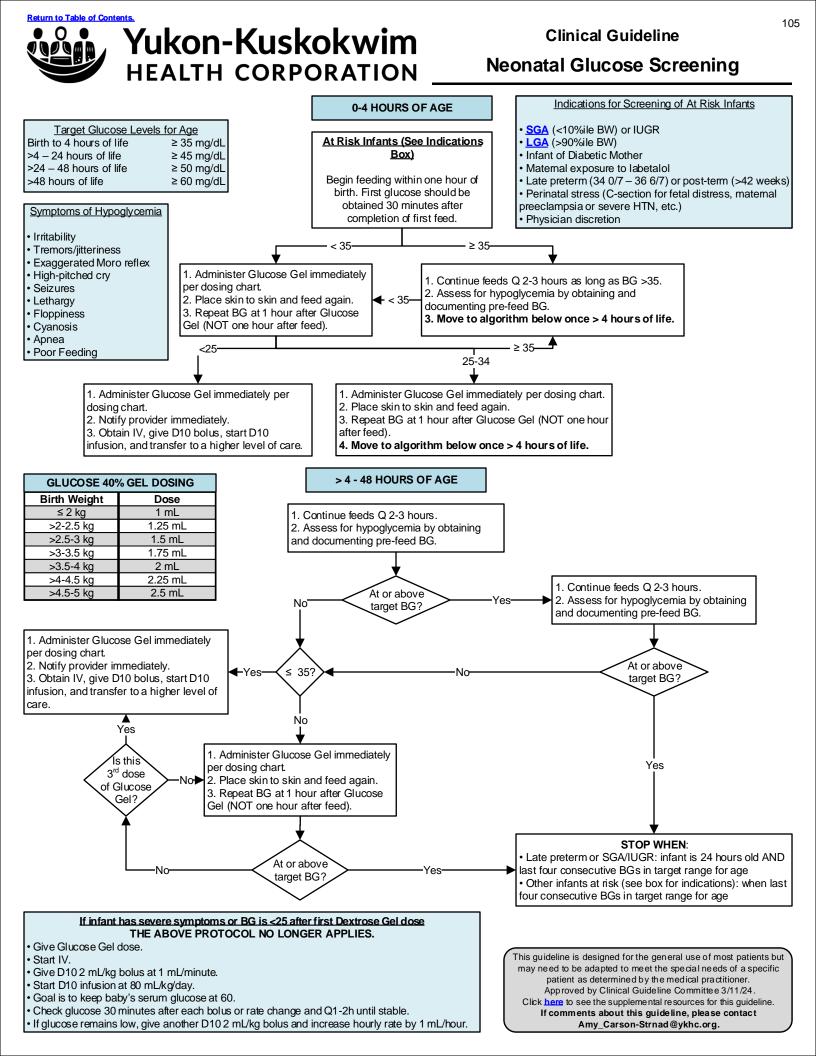
References

 Pediatrics 2019: <u>Management of Infants</u> at Risk for Group B Streptococcal Disease

 Pediatrics 2018: <u>Management of</u> <u>Neonates Born at ≥ 35 0/7 Weeks</u>' <u>Gestation with Suspected or Proven</u> <u>Early-Onset Bacterial Sepsis</u>

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If comments about this guideline, please contact Amy_Carson-Strnad@ykhc.org.



Neonatal Resuscitation Summary

PAMC Transfer center - 907-212-7363 NICU (907) 212-3614 – Ask for attending neonatologist on call. Neonatologist direct line (for emergencies) (907) 212-2068.

GESTATIONAL AGE (weeks)	24	26	28	30	32	34	36	38	40		
ESTIMATED WEIGHT (grams)	700	900	1100	1350	1650	2100	2600	3000	3500		
EQUIPMENT/SUPPLIES: NG/OG Tube - 5 French ♦ UVC <32 weeks - 3.5 French ♦ UVC ≥32 weeks - 5 French											
Laryngoscope Blade	00	00	00	0	0	0	0	0-1	0-1		
ETT Size	2.5	2.5	2.5-3.0	3.0	3.0	3.0-3.5	3.5	3.5-4.0	3.5-4.0		
ETT Depth lip to tip. Place at T2 above the carina.	6.5-7 cm	6.5-7 cm	7 cm	7-7.5 cm	7.5 cm	8 cm	8.5 cm	9 cm	9.5 cm		
Laryngeal mask airway (LMA)	none	none	none	none	Consult NICU.	1	1	1	1		
Needle decompression. See kit and protocol in neonatal code cart.	18 gauge	16 gauge	16 gauge	16 gauge	16 gauge						
UVC insertion. <i>Place just above diaphragm. Add umbilical stump length.</i> May insert UVC 2-4 cm for emergency access.	6.5 cm	6.9 cm	7.2 cm	7.5 cm	8 cm	8.7 cm	9.4 cm	10 cm	10.8 cm		

VITAL SIGNS: Heart Rate 120-160 + Respiratory Rate 30-60 + Mean Blood Pressure = Gestational age in weeks

INITIAL VENTILATOR SETTINGS									
Positive Inspiratory Pressure (PIP) cm H ₂ O	16-22	16-22	16-22	16-22	18-24	18-24	18-24	20-28	20-28
Positive End Expiratory Pressure (PEEP) cm H ₂ O	4-6	4-6	4-6	4-6	4-6	5-6	5-6	5-6	5-6
Inspiratory Time (seconds)	0.3-0.35	0.3-0.35	0.3-0.35	0.3-0.35	0.3-0.35	0.3-0.35	0.35-0.4	0.35-0.4	0.35-0.4
Respiratory Rate (breaths per minute)	30-45	30-45	30-45	30-45	20-40	20-40	20-40	20-40	20-40
Saturation Goal after 10 Minutes	88-95%	88-95%	88-95%	88-95%	88-95%	88-95%	88-95%	95-98%	95-98%

MEDICATIONS									
Epinephrine IV/IO 0.1 mg/mL 0.2 mL/kg. May repeat every 3 minutes for asystole.	0.14 mL	0.18 mL	0.22 mL	0.27 mL	0.33 mL	0.4 mL	0.5 mL	0.6 mL	0.7 mL
Epinephrine ET ONLY 0.1 mg/mL 1 mL/kg. <i>May repeat every 3 minutes for asystole.</i>	0.7 mL	0.9 mL	1.1 mL	1.3 mL	1.6 mL	2.1 mL	2.6 mL	3 mL	3.5 mL
Curosurf (poractant alfa 80 mg/mL) 2.5 mL/kg as a single dose. Give Curosurf <26 weeks OR 26-29 weeks requiring \geq 40% FiO ₂ OR >29 weeks with CXR-proven RDS. See guideline for more details.	1.8 mL	2.2 mL	2.8 mL	3.4 mL	4 mL	5.2 mL	6.6 mL	7.6 mL	8.8 mL
FOR HYPOGLYCEMIA: Give D10 bolus 2 mL/kg IV/IO at 1 mL/min. Increase D10 maintenance fluid rate by 1 mL/hour for <2 kg or 2 mL/hour for ≥2 kg.	1.4 mL	1.8 mL	2.2 mL	2.7 mL	3.3 mL	4.2 mL	5.2 mL	6 mL	7 mL
Ampicillin (Dilute to 100 mg/mL) 50 mg/kg IV/IM	35 mg (0.35 mL)	45 mg (0.45 mL)	55 mg (0.55 mL)	68 mg (0.68 mL)	83 mg (0.83 mL)	105 mg (1.05 mL)	130 mg (1.3 mL)	150 mg (1.5 mL)	175 mg (1.75 mL)
Gentamicin (2 mg/mL) 5 mg/kg IV as one-time dose. May give IM. DO NOT USE IN VILLAGE.	3.5 mg (1.75 mL)	4.5 mg (2.25 mL)	5.5 mg (2.75 mL)	6.8 mg (3.4 mL)	8.2 mg (4.1 mL)	10.4 mg (5.2 mL)	13 mg (6.5 mL)	15 mg (7.5 mL)	17.6 mg (8.8 mL)
Volume Expanders: NS or albumin 10 mL/kg IV/IO. Give over 15-30 minutes; give faster if unstable; give slower for extreme premies.	7 mL	9 mL	11 mL	13.5 mL	16.5 mL	21 mL	26 mL	30 mL	35 mL
D10 Maintenance Fluids: <750 grams give 90-100 mL/kg/24 hours ♦ ≥750 grams give 80 mL/kg/24 hours. Goal blood glucose is 50-110 mg/dL.	3 mL/hour	3 mL/hour	3.7 mL/hour	4.5 mL/hour	5.5 mL/hour	7 mL/hour	8.7 mL/hour	10 mL/hour	12 mL/hour
Phenobarbital (130 mg/mL) 10 mg/kg IV/IO/IM/PR. May give additional 10 mg/kg dose.	7 mg (0.05 mL)	9 mg (0.07 mL)	11 mg (0.08 mL)	13.5 mg (0.1 mL)	16.5 mg (0.13 mL)	21 mg (0.16 mL)	26 mg (0.2 mL)	30 mg (0.23 mL)	35 mg (0.27 mL)



Neonatal Drug Preparation & Rapid Sequence Intubation Drugs

Epinephrine 0.1 mg/mL

- This is the pre-filled syringe concentration.
- Draw up doses by inserting needle through the thick rubber stopper.
- Flush with 3 mL of NS regardless of weight or gestational age.

Ampicillin 100 mg/mL

Products needed:

- Ampicillin 500 mg vial
- Sterile water for injection, 10 mL vial

How to mix:

- 1. Reconstitute 500 mg vial with 4.8 mL sterile water for injection. This will result in a 100 mg/mL final concentration.
- 2. The Neonatal Resuscitation Summary (page 1) lists the total dose and volume draw up dose from vial.
- 3. Dose must be used within 1 hour of reconstitution.

Administration:

- Doses less than 500 mg can be injected via slow IV push over 3 to 5 minutes.
- Not compatible with D10W.
- Administer before gentamicin do not administer at the same time.

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Gentamicin 2 mg/mL

Product needed:

• Gentamicin 100 mg/50 mL pre-mixed bag.

DO NOT ADMINISTER THE BAG – the dose will be administered via syringe pump.

The Neonatal Resuscitation Summary (page 1) lists the total dose and volume – draw up this volume from the bag and **immediately dispose of the bag**.

Administration:

- Administer after ampicillin do not administer at the same time.
- Administer via syringe pump over 30 minutes.
- Compatible with D10W.

GESTATIONAL AGE (weeks)	24	26	28	30	32	34	36	38	40
ESTIMATED WEIGHT (grams)	700	900	1100	1350	1650	2100	2600	3000	3500
Atropine (0.1 mg/mL) – 0.02 mg/kg	0.01 mg	0.02 mg	0.02 mg	0.03 mg	0.03 mg	0.04 mg	0.05 mg	0.06 mg	0.07 mg
	(0.1 mL)	(0.2 mL)	(0.2 mL)	(0.3 mL)	(0.3 mL)	(0.4 mL)	(0.5 mL)	(0.6 mL)	(0.7 mL)
Fentanyl (**10 mcg/mL**) – 1 mcg/kg (May repeat dose once.) Push slowly over 3-5 minutes. Have dose of rocuronium drawn up in case of chest wall rigidity.	0.7 mcg (0.07 mL)	0.9 mcg (0.09 mL)	1.1 mcg (0.11 mL)	1.4 mcg (0.14 mL)	1.7 mcg (0.17 mL)	2.1 mcg (0.21 mL)	2.6 mcg (0.26 mL)	3 mcg (0.3 mL)	3.5 mcg (0.35 mL)
Rocuronium (10 mg/mL) – 0.6 mg/kg	0.4 mg	0.5 mg	0.7 mg	0.8 mg	1 mg	1.3 mg	1.6 mg	1.8 mg	2.1 mg
Do not routinely use. Reserve for difficult airways.	(0.04 mL)	(0.05 mL)	(0.07 mL)	(0.08 mL)	(0.1 mL)	(0.13 mL)	(0.16 mL)	(0.18 mL)	(0.21 mL)
Naloxone (0.4 mg/mL) – 0.1 mg/kg	0.07 mg	0.09 mg	0.11 mg	0.14 mg	0.16 mg	0.2 mg	0.26 mg	0.3 mg	0.35 mg
	(0.18 mL)	(0.23 mL)	(0.28 mL)	(0.35 mL)	(0.4 mL)	(0.5 mL)	(0.65 mL)	(0.75 mL)	(0.9 mL)

Fentanyl 10 mcg/mL

Products needed:

- Fentanyl 50 mcg/mL, 2 mL vial
- Preservative-free normal saline

How to mix:

- 1. Draw up 1 mL of fentanyl 50 mcg/mL.
- 2. Add to 4 mL of normal saline.

Administration:

Inject via slow IV push over 3 to 5 minutes.

• If chest wall rigidity develops, give dose of rocuronium or naloxone.

RSI Drug Notes

- Drug Locations:
 - Atropine and naloxone located in neonatal code cart.
 - Fentanyl 50 mcg/mL and rocuronium located in OB Pyxis.

• May flush with 0.5-1 mL of NS if needed.

Reviewed and updated by YKHC Pediatrics, OB Nursing, and Pharmacy in conjunction with Providence Alaska Medical Center NICU Staff. Approved by Clinical Guideline Committee 8/23/23.





Attach the oxygen tubing to a 15 L flow meter. Set blender to 21% and consider increasing depending on clinical status. Set the flow meter to 10 L.

Occlude both the mask and the hole. Set the PIP: Turn the knob labeled Peak Inspiratory Pressure until the arrow

on the dial points to **20**.

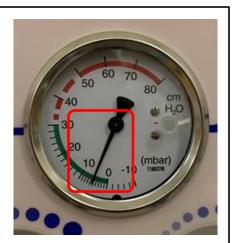


NECOCUFF MICHAEL MI

Occlude only the mask. <u>Set the PEEP</u>: Turn the PEEP knob until the arrow on the dial points to **5**.

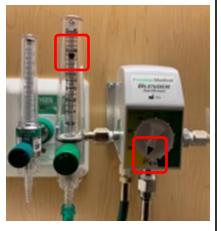




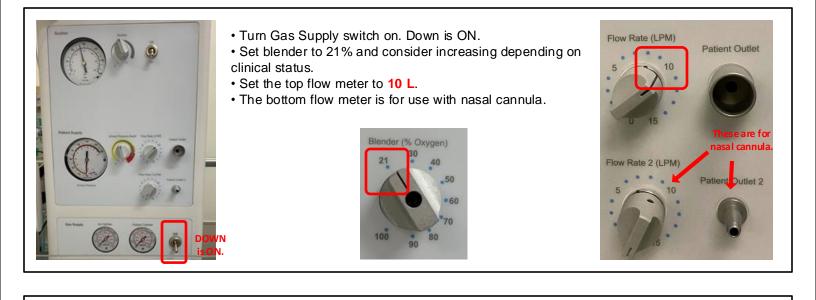


Troubleshooting: If you cannot achieve the desired pressures, try changing the liters on the flow meter or turning the Max Pressure Relief knob located under the flap.

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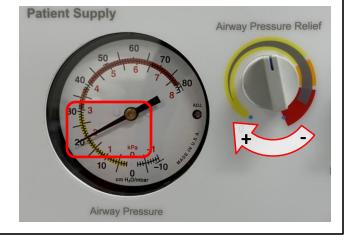






- Occlude both the mask and the hole.
- <u>Set the PIP</u>: Turn the knob labeled Airway Pressure Relief until the arrow on the dial points to **20**.





- Occlude only the mask.
- <u>Set the PEEP</u>: Turn the PEEP knob until the arrow on the dial points to **5**.



Troubleshooting: If you cannot achieve the desired pressures, try changing the liters on the flow meter.

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Clinical Resource

Surfactant Administration Protocol

Indications for Curosurf®

- GA<26 weeks.
- GA 26-29 weeks with supplemental oxygen requirement ≥ 40%.
- GA>29 weeks with CXR-proven RDS.
- Consider in severe meconium aspiration after consultation with neonatologist.

Curosurf® Storage

- Curosurf[®] is stored at 36-46°F.
- If warmed and not opened or used, may be returned to refrigerated storage one time.
 Curosurf[®] is located in the OB medication refrigerator. If going on a medevac, ask the nurses to get the Curosurf[®]. It can be stored in a pink thermal bag that is kept next to it in the refrigerator.

Reference:

See this <u>YouTube video</u> for a demonstration of the Y catheter. Please instill as single dose in supine position to decrease chance of inadvertent loss of ETT placement/position.

Troubleshooting

If ETT cap is stuck, cut the tube as high as possible and then place the Y cap. This will change the number of the desired depth.
If having trouble switching caps prior to intubation, hold ETT up to warmer to soften the plastic.

Prior to procedure, discuss with neonatologist. Consider using medications for Rapid Sequence Intubation
If planning to use paralytic, discuss with neonatologist.

\	
Preparation of C	urosurf®
 Warm to room temperature and gently invert. Do not shake the choose Curosurf[®] dose using the <u>Neonatal Resuscitation</u> weight is known, calculate dose to be 2.5 mL/kg. Draw up total Curosurf[®] dose using a 20 gauge or larger the dose. This helps the surfactant get pushed out of the cathered provide the surfactant get pushed out of the cathered provide the surfactant get pushed out of the cathered provide the surfactant get pushed out of the cathered provide the surfactant get pushed out of the cathered provide the surfactant get pushed out of the cathered provide the surfactant get pushed out of the cathered provide the surfactant get pushed out of the cathered provide the surfactant get pushed out of the surfactant get pushed provide the surfactant get push	needle. Draw up 1-2 mL of air into syringe after
↓	
Preparation of Equipme	ent and Patient
 Prior to intubation, if possible, check the ETT cap and ma Make sure you have the correct size Y cap for the ETT si. Check fit of Y cap on ETT. Attach catheter and feed it dow for the number or color that will tell you the depth of the cat in reference box for demonstration of how to achieve desired 	ze. wn the tube until it is at the tip of the ETT. Look theter at this point. If time, review YouTube video

- Intubate patient with ETT cap on tube.
 Verify placement and secure tube.
- · Perform CXR to verify tube placement and rule-out pneumothorax.

Administration of Curosurf®

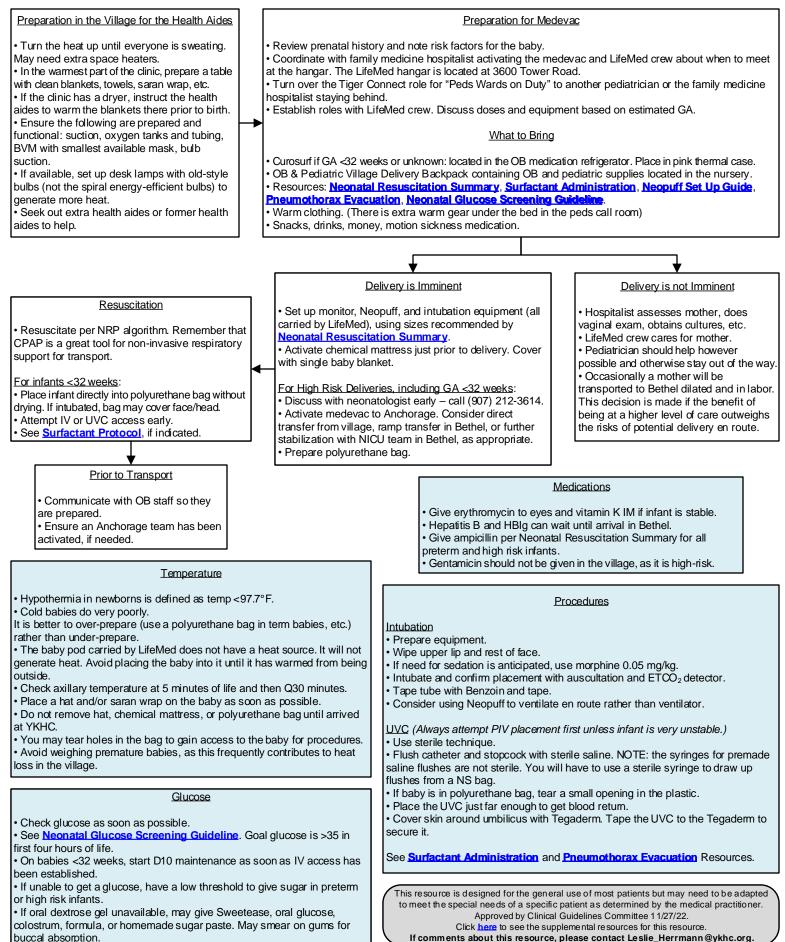
- Infant should be supine.
- Disconnect Neopuff, bag, or ventilator.
- Remove ETT cap and replace with Y cap. This will change the number of the desired depth.
- Attach the Neopuff or anesthesia bag to the larger port on the Y cap.
- Attach the catheter to the smaller port on the Y cap and advance it until it is at the desired depth.
- Inject the syringe of Curosurf® through the catheter.
- Pull the catheter all the way out but leave attached.
- Bag the baby at a rate of 40-60 breaths/minute for one minute.
- Allow the baby to recover.
- Resume ventilation.
- Do not suction for one hour after administration unless required for obstruction.
- Adjust pressure on Neopuff as lung compliance improves.

This resource is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 3/11/24. Click here to see the supplemental resources for this resource. If comments about this resource, please contact Amy_Carson-Strnad@ykhc.org.



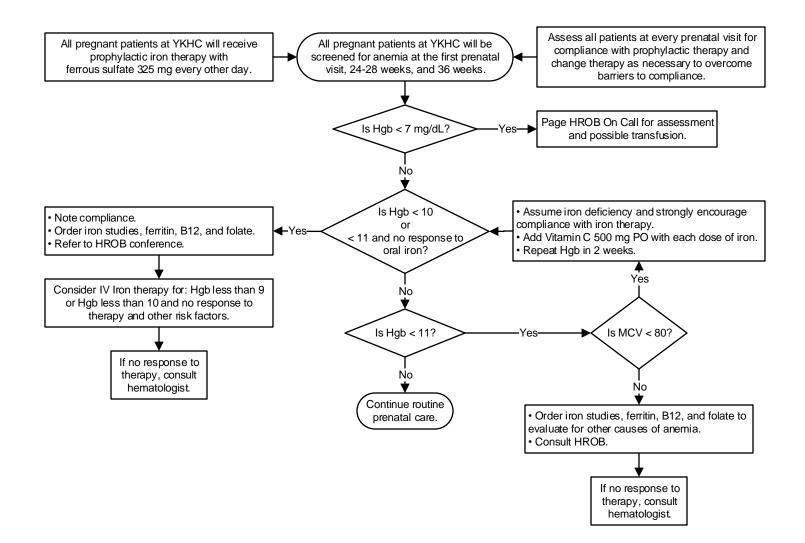
Return to Table of Contents. Yukon-Kuskokwim HEALTH CORPORATION

Village Deliveries (Pediatrics)



If comments about this resource, please contact Leslie_Herrmann@ykhc.org.





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Soft Marker	Aneuploidy Evaluation	Antenatal Management	Follow-up Imaging	
Echogenic intracardiac focus	 cfDNA or quad screen negative: none No previous screening: counseling for noninvasive testing for aneuploidy 	Routine care	N/A	
Echogenic bowel	 cfDNA or quad screen negative: none No previous screening: counseling for noninvasive testing for aneuploidy 	Evaluation for cystic fibrosis, congenital viral infection, intra- amniotic bleeding	Third-trimester ultrasound examination for reassessment and evaluation of growth	
Choroid plexus cyst	 cfDNA or quad screen negative: none No previous screening: counseling for noninvasive testing for aneuploidy 	Routine care	N/A	
Single umbilical artery	cfDNA or quad screen negative or no previous screening: none	Consideration for weekly antenatal surveillance beginning at 36 0/7 week of gestation	Third-trimester ultrasound examination for evaluation of growth	
Urinary tract dilation	 cfDNA or quad screen negative: none No previous screening: counseling for noninvasive testing for aneuploidy 	Evaluation for persistence, with frequency of evaluation dependent on initial findings	Third-trimester ultrasound examination to determine whether postnatal pediatric urology or nephrology follow-up is needed	
Shortened humerus, femur, or both	 cfDNA or quad screen negative: none No previous screening: counseling for noninvasive testing for aneuploidy 	Evaluation for skeletal dysplasias	Third-trimester ultrasound examination for reassessment and evaluation of growth	
Thickened nuchal fold	 cfDNA negative: none Quad screen negative: counseling for no further testing vs noninvasive vs invasive testing for aneuploidy No previous screening: counseling for noninvasive vs invasive testing for aneuploidy 	Routine care	N/A	
Absent or hypoplastic nasal bone	 cfDNA negative: none Quad screen negative: counseling for no further testing vs noninvasive vs invasive testing for aneuploidy No previous screening: counseling for noninvasive vs invasive testing for aneuploidy 	Routine care	N/A	

Abbreviations

cfDNA: cell-free DNA – order in RAVEN as MaterniT21

CF: cystic fibrosis

Quad screen: order in RAVEN as AFP Maternal (Quad Screen)

Contact

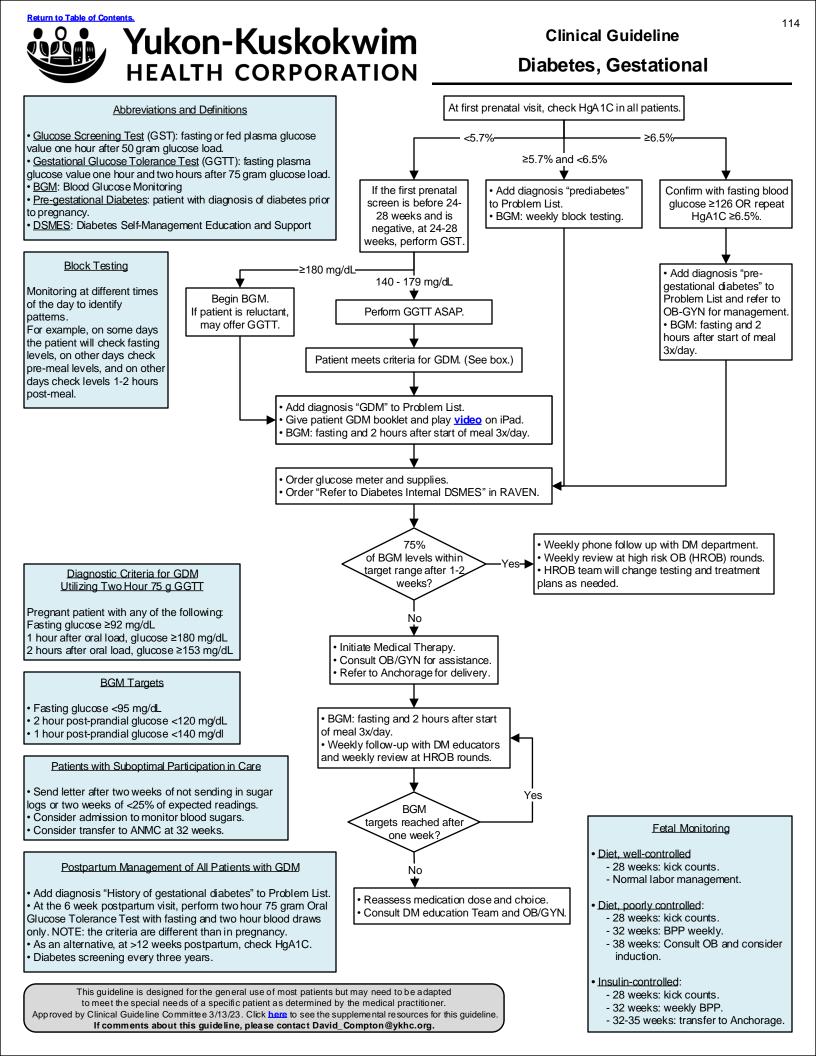
MFM: Send referral through RAVEN via "Refer to Obstetrics External – Perinatology."

For non-beneficiaries, place this order AND send a message to Women's Health Case Manager to ensure it is sent to the correct place.

Source

Society for Maternal-Fetal Medicine. SMFM Consult Series #57: Evaluation and management of isolated soft ultrasound markers for aneuploidy in the second trimester. Am J Obstet Gynecol 2021.

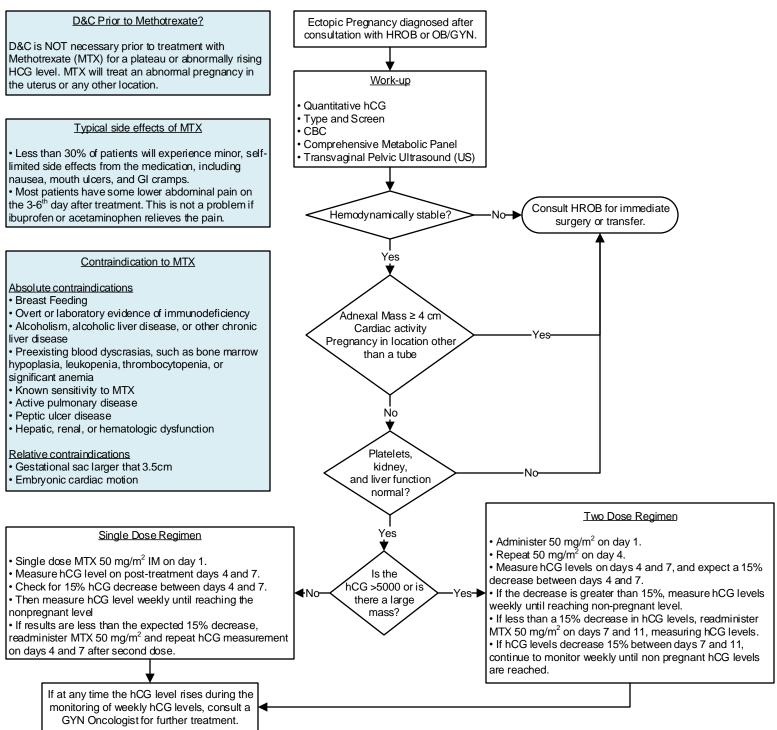
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Clinical Guideline

Ectopic Pregnancy Treatment



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result in a liveborn baby.

definite pregnancy failure.

are nonviable.

a volk sac.

volk sac.

embryo.

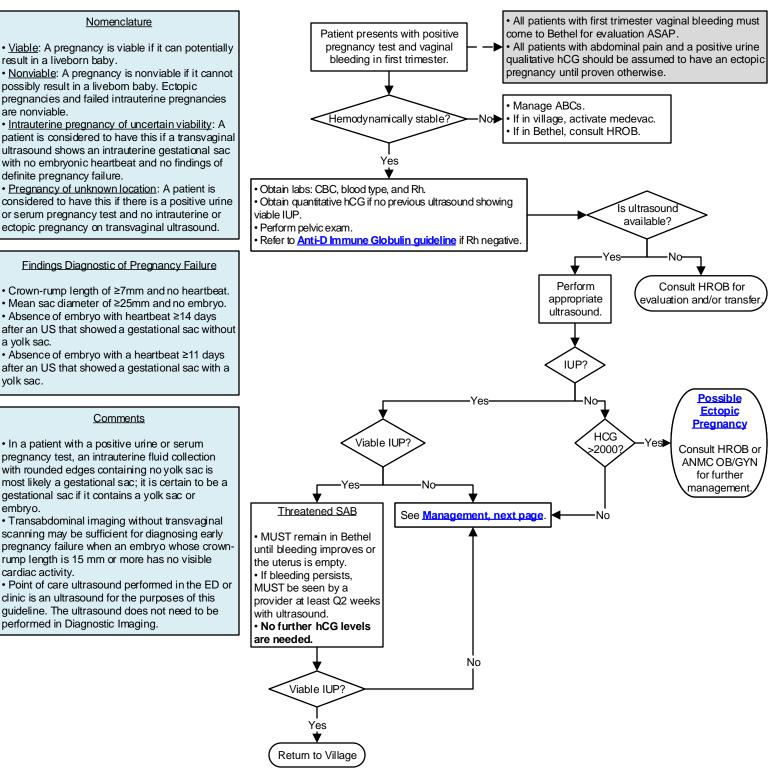
cardiac activity.

Comments

Yukon-Kuskokwim HEALTH CORPORATION

Clinical Guideline

First Trimester Bleeding: Evaluation



This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Click here to see the supplemental resources for this guideline. Approved by Clinical Guideline Committee 3/13/23. If comments about this guideline, please contact David_Compton@ykhc.org.



Clinical Guideline

First Trimester Bleeding: Management

Nomenclature

• Viable: A pregnancy is viable if it can potentially result in a liveborn baby.

• Nonviable: A pregnancy is nonviable if it cannot possibly result in a liveborn baby. Ectopic pregnancies and failed intrauterine pregnancies are nonviable.

 Intrauterine pregnancy of uncertain viability: A patient is considered to have this if a transvaginal ultrasound shows an intrauterine gestational sac with no embryonic heartbeat and no findings of definite pregnancy failure.

• Pregnancy of unknown location: A patient is considered to have this if there is a positive urine or serum pregnancy test and no intrauterine or ectopic pregnancy on transvaginal ultrasound.

Findings Diagnostic of Pregnancy Failure

Crown-rump length of \geq 7mm and no heartbeat.

• Mean sac diameter of ≥25mm and no embryo.

 Absence of embryo with heartbeat ≥14 days after an US that showed a gestational sac without a yolk sac. • Absence of embryo with a heartbeat ≥11 days after an US that showed a gestational sac with a yolk sac. • Falling hCG level.

Comments

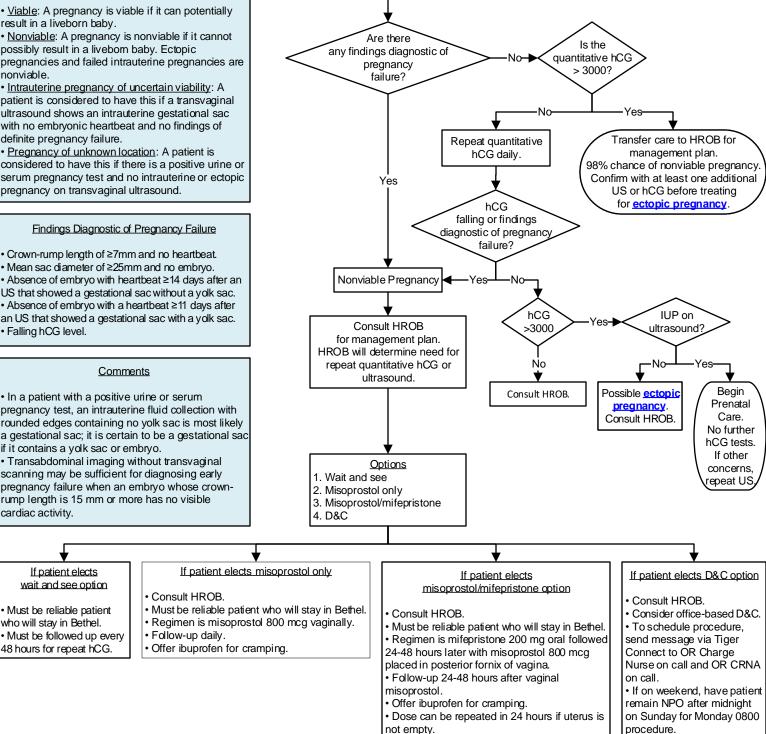
 In a patient with a positive urine or serum pregnancy test, an intrauterine fluid collection with rounded edges containing no yolk sac is most likely a gestational sac; it is certain to be a gestational sac if it contains a yolk sac or embryo.

 Transabdominal imaging without transvaginal scanning may be sufficient for diagnosing early pregnancy failure when an embryo whose crownrump length is 15 mm or more has no visible cardiac activity.

If patient elects

wait and see option

who will stay in Bethel.



Pregnancy of uncertain viability or unknown location

Following hCG to negative

 Contact GYN CM at 543-6557 or send communication in RAVEN to Women's Health Case Manager Pool. CM will follow hCG levels in consultation with HROB.

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Please give out this patient education handout, which explains these treatment options.





Group B Streptococcus (GBS) – Maternal

Maternal GBS Prophylaxis

Use the GBS App

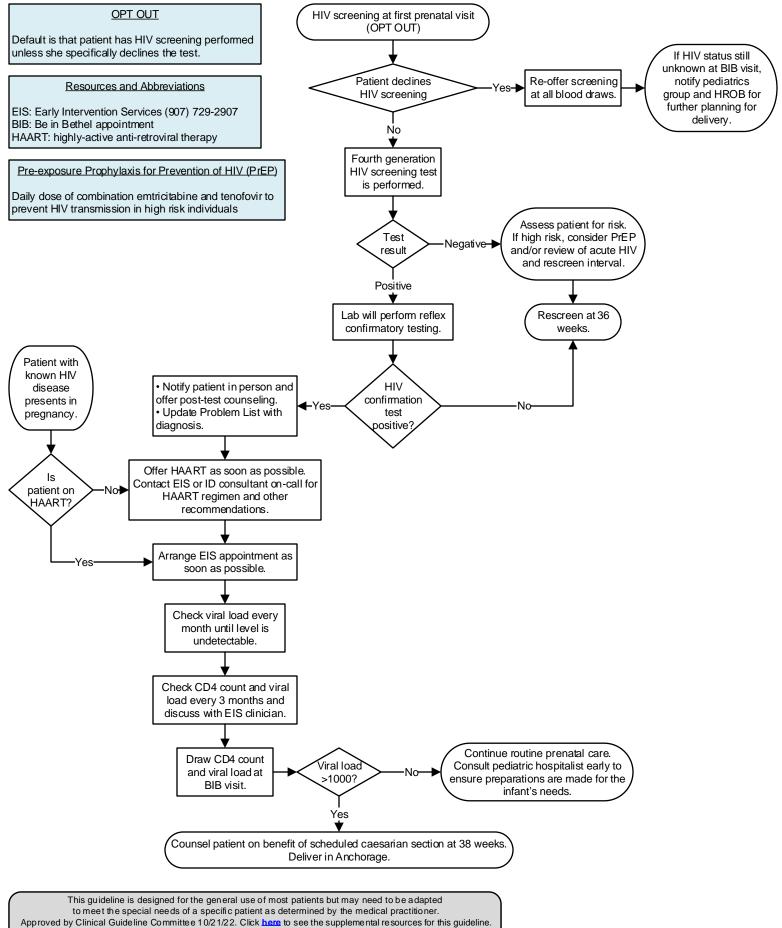
to determine need for prophylaxis and antibiotic of choice for GBS prevention Web version: <u>https://www2a.cdc.gov/vaccines/m/gbs3/gbs.html</u>

> or Download for your smartphone.

Please note: YKHC does not use the neonatal option available here. Please see the <u>Newborn Early-Onset</u> <u>Sepsis/GBS guideline</u> for more details.



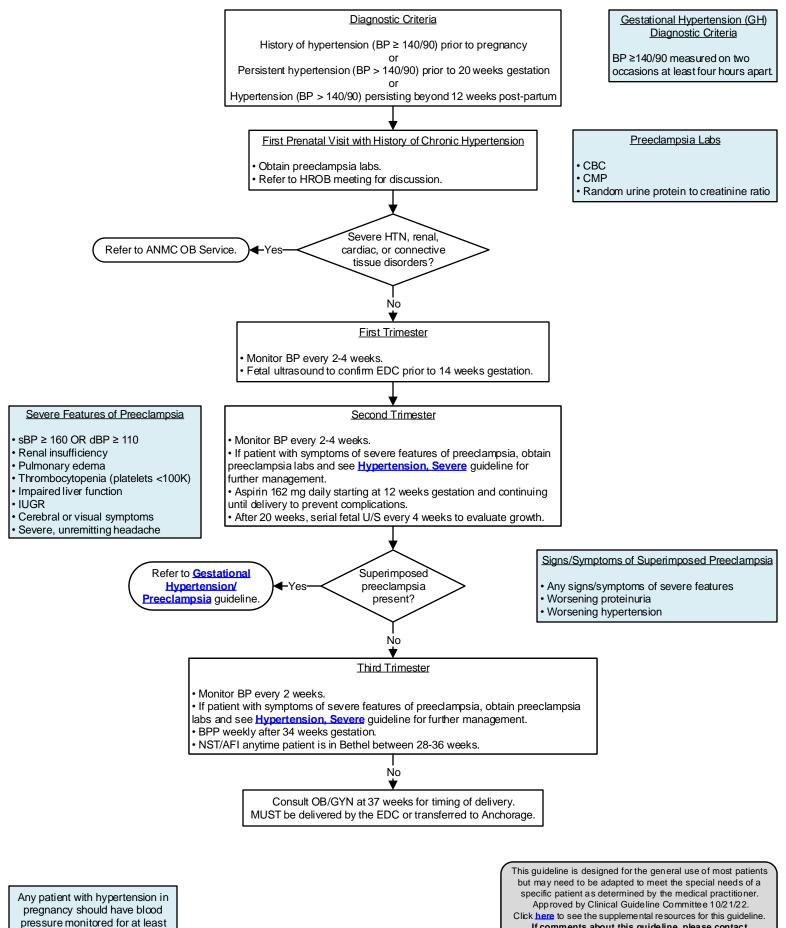
HIV Prenatal Screening and Care



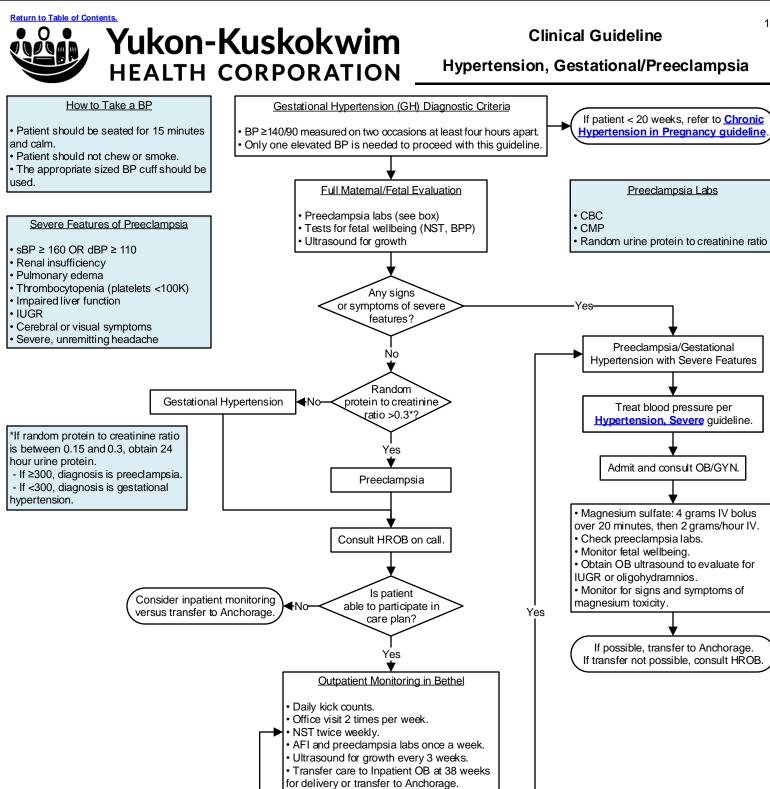


Clinical Guideline

Hypertension in Pregnancy, Chronic



If comments about this guideline, please contact David_Compton@ykhc.org.

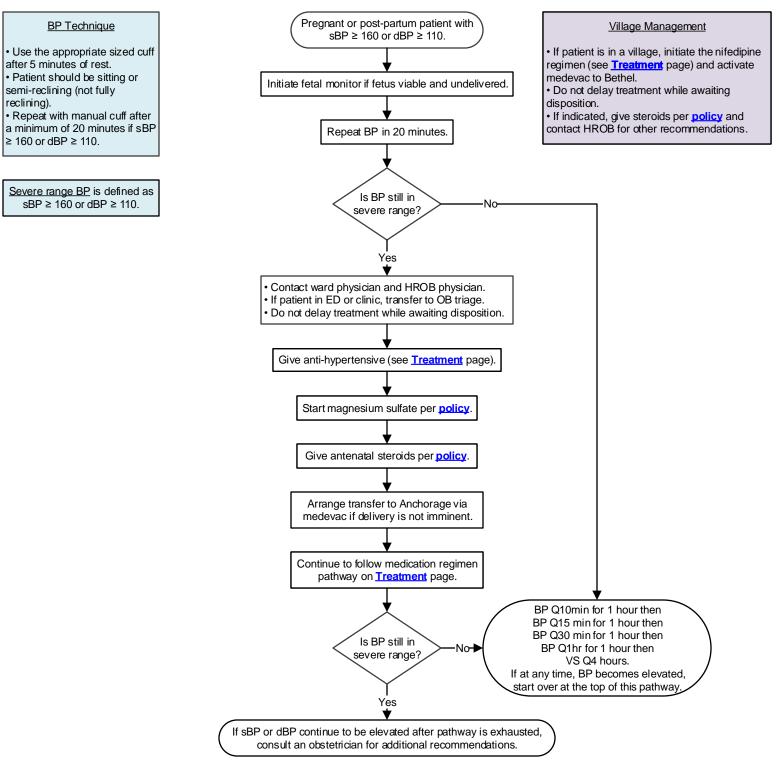


Any signs or symptoms of severe features?

No

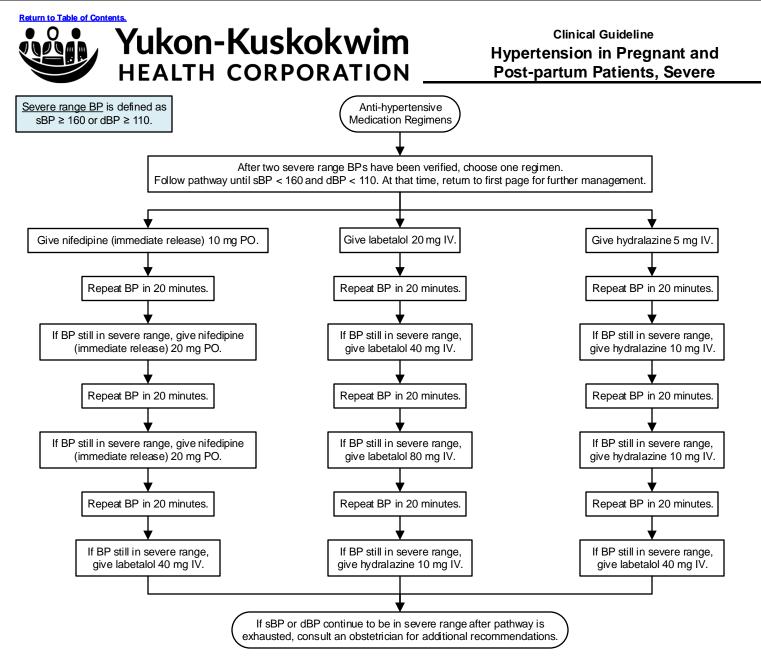
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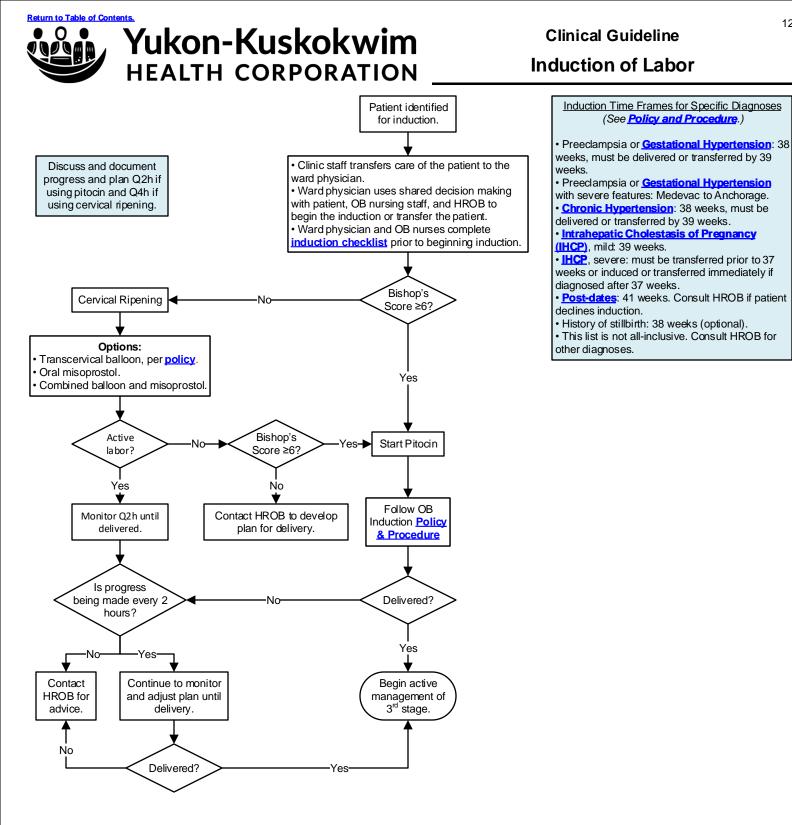
122



Village Management

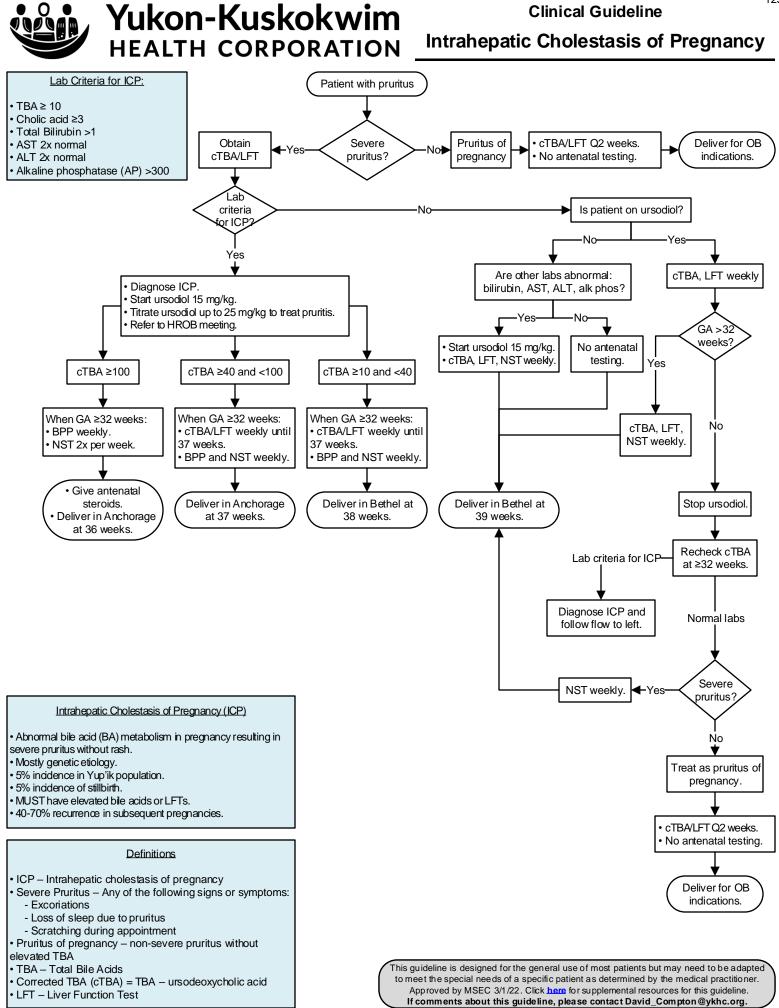
- If patient is in a village, initiate the nifedipine
- regimen and activate medevac to Bethel.
- Do not delay treatment while awaiting disposition.
- If indicated, give steroids per policy and contact
- HROB for other recommendations.

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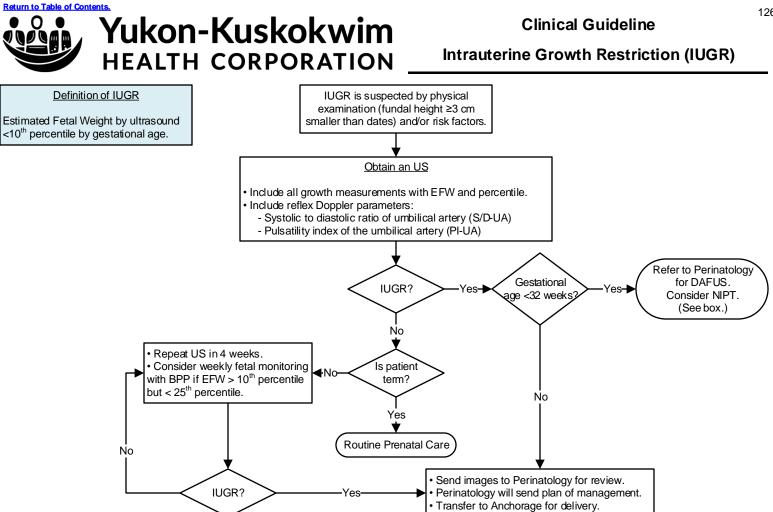
Bishops Score					
Score	Dilatation	Effacement	Station	Position	Consistency
0	closed	0 - 30%	-3	posterior	firm
1	1-2 cm	40 - 50%	-2	mid-position	medium
2	3-4 cm	60 - 70%	-1,0	anterior	soft
3	5+ cm	80+%	+1,+2		

This guideline is designed for the general use of most patients but may need to be a dapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved 6/6/22. Click here to see the supplemental resources for this guideline. If comments about this guideline, please contact Ellen_Hodges@ykhc.org.



Return to Table of Contents.

125



Non-invasive Prenatal Testing (NIPT)

Non-invasive prenatal testing is a way to detect fetal chromosome abnormalities from a maternal blood draw. Our current test is InformaSeq from LabCorp.

Risk Factors for Intrauterine Growth Restriction

Maternal Medical Conditions

- Hypertension
- Renal disease
- Restrictive lung disease
- Diabetes (with microvascular disease)
- Cyanotic heart disease
- Antiphospholipid syndrome
- Auto-immune disease

Other Factors

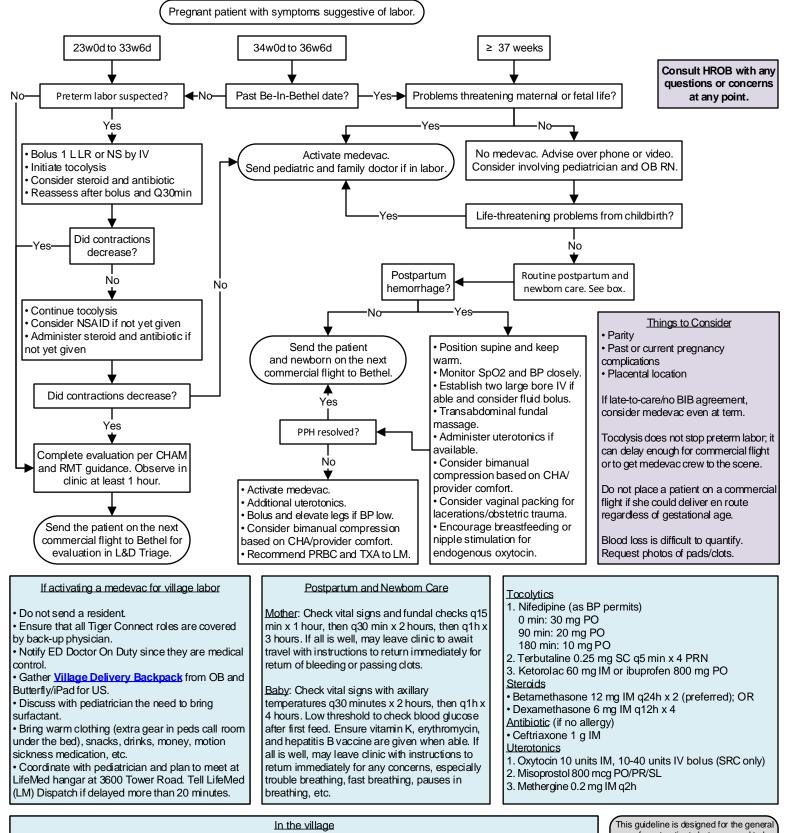
- · Smoking and substance use and abuse
- Severe malnutrition
- Primary placental disease Multiple gestation
- Infections (viral, protozoal)
- Genetic disorders Exposure to teratogens

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Clinical Guideline

Labor Patient in Village



• Help the crew, follow their instructions, and expect to carry equipment.

• Assess fundal height and Leopold maneuvers; consider dating accuracy versus polyhydramnios if size greater than dates.

• If EGA<34 weeks, perform a sterile speculum exam, obtain FFN, swab for GBS and GC/CT, and obtain urine sample for culture.

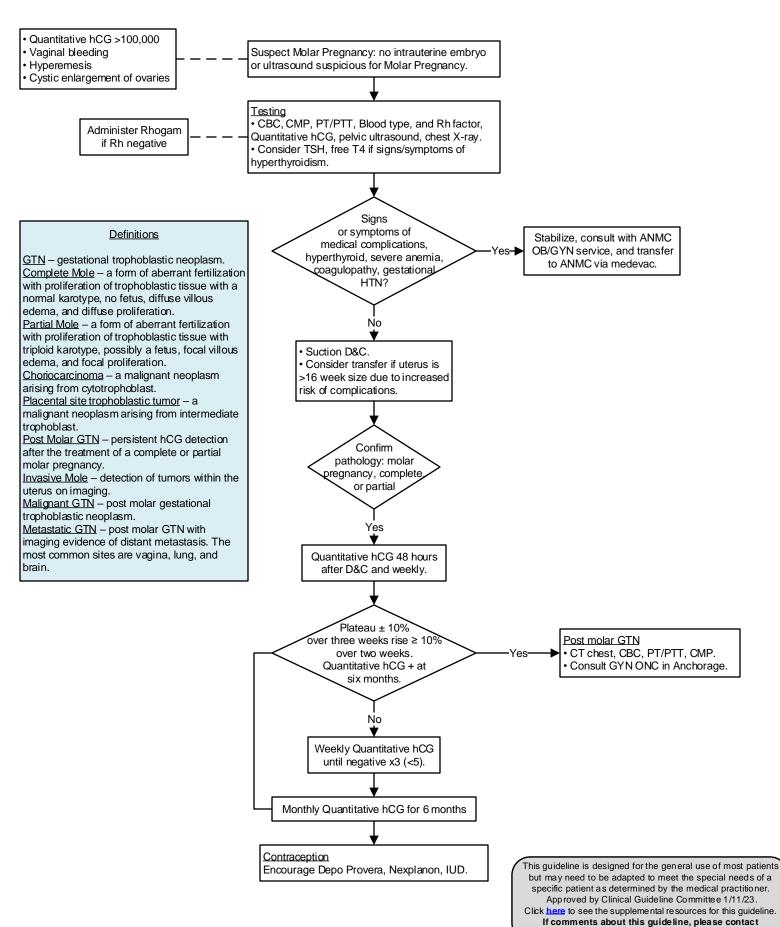
- If low risk for placenta previa (e.g., not noted on prior formal or Butterfly POCUS), check cervix after obtaining cultures.
- Make decision about disposition based on cervical exam, possible complications, and risk/benefit of travel.
- Discuss with HROB if any uncertainty about plan.

Notify OB charge RN of plan as soon as possible from village clinic or Subregional Center (SRC) so they can prepare.
 If village delivery is anticipated, see <u>Village Deliveries (Pediatrics) Resource</u> for newborn care and preparation.

This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Guideline Committee 8/23/23. Click here to see the supplemental resources for this guideline. If comments about this guideline, please contact William_Guerin@ykhc.org.



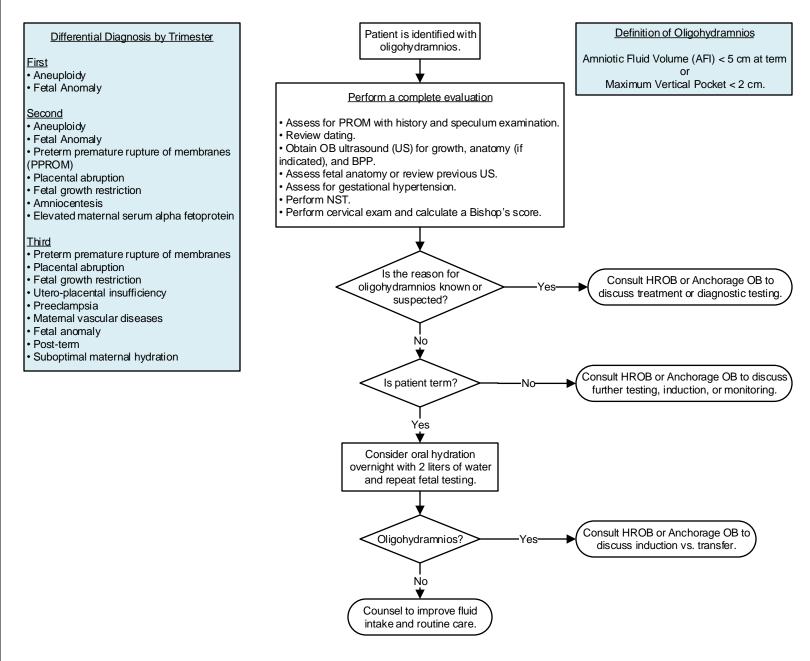
David_Compton@ykhc.org.



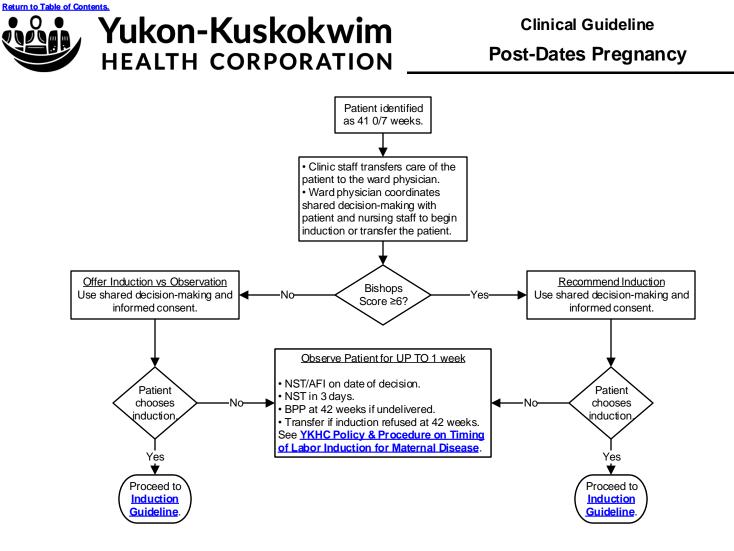
128



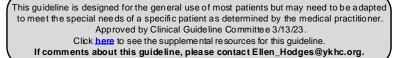
Clinical Guideline Oligohydramnios

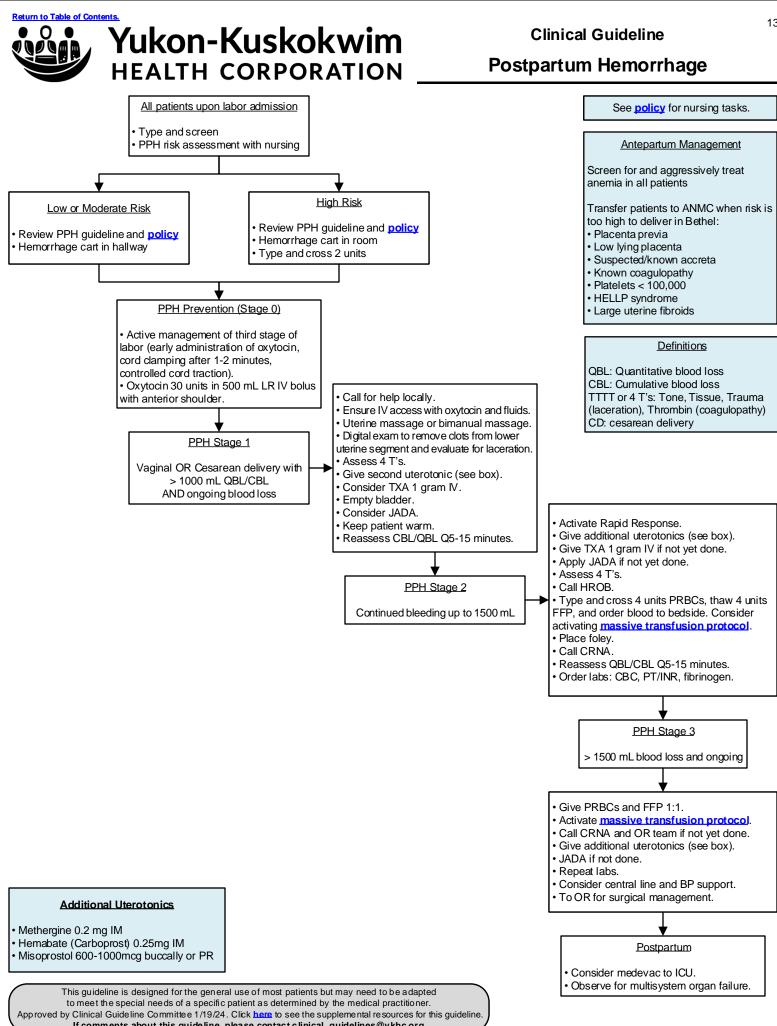


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	Bishop Score					
	<u>Score</u> 0	Dilatation closed	Effacement 0 – 30%	Station -3	Position posterior	<u>Consistency</u> firm
L	1	1 – 2 cm	40 - 50%	-2	mid-position	medium
L	2	3 – 4 cm	60 – 70%	-1, 0	anterior	soft
l	3	>5 cm	>80%	+1, +2		





If comments about this guideline, please contact clinical_guidelines@ykhc.org.

Return to Table of Contents.

n

Yukon-Kuskokwim HEALTH CORPORATION

BASICS

- Review the chart EVERY visit for incomplete lab or other required testing.
- Review the Problem List EVERY visit for needed testing or intervention items.
- Patient should see a Bethel provider or CHA/P monthly from first visit to 32 weeks.
- Patient should see a Bethel provider or CHA/P every two weeks after 32 weeks and then weekly at 36 weeks.
- If there is any question of EDC, see guideline or refer to HROB meeting for decision.

First Prenatal

NURSING/CASE MANAGER

- Order First Trimester Transvaginal OB Ultrasound (>6 weeks) for dating.
 Patient to initiate paperwork:
 - Residential Information Sheet.
 - Pregnancy Verification Sheet use LMP if no EDC from ultrasound.
 - · Quad screen consent form.
 - FAS & Drug Assessment Screening questionnaire.
 - 36 Week BIB/Medevac Policy.
- Review TB screening status patient MUST HAVE a negative Quantiferon or PPD prior to 36 weeks to stay at Prematernal Home. Place PPD if needed.
 Labs: urinalysis, urine culture, blood type and screen, HBsAg, Hepatitis C antibody, CBC, Rubella titer, HIV testing, treponemal testing, HgA1c, 25-OH vitamin D.
- Set up room for pelvic to do PAP (only do a PAP if it is due), GC/CT and trichomonas (with verbal consent).
- Routine patient handouts: WIC handout.

PROVIDER

- Prenatal H&P and Prenatal Education.
- Chart review.
- Offer flu vaccine October through the end of the flu season.
- Discuss and sign BIB/Medevac Policy contract.
- Update the Problem List and include EDC and gravida/para in one problem.
- Refer to HROB meeting if needed.
- Ask about S/Sx of IHCP; if present, add bile acids and LFTs to lab draw.

PATIENT

- · Go to the Medicaid office to file for Medicaid.
- Go to the WIC office to file for WIC.

15-21 Weeks

If desired, quad screen must be drawn between 15 and 21 weeks gestation.
Review TB status.

20 Weeks

- Ultrasound to screen for anomalies: US OB anatomy and cervical length.
 - Only one is needed no matter where it is done.
 - Aim for 20 weeks.
 - $^\circ$ If anatomy is incomplete, order US OB follow-up for the next visit to complete the anatomy exam.

24-28 Weeks

NURSING

- Labs: GST, CBC.
- Tdap after 24 weeks.
- GST 50 g:
 - If result >140 mg/dL, schedule 2 hour GTT ASAP.
- If the result >179, no GTT; refer directly to diabetes education.
- Attempt to keep the patient until the results of the GST are back.
 Review TB status. Draw Quantiferon if failed to have PPD read.

PROVIDER

- After 28 weeks, ask about preeclampsia symptoms.
- After 24 weeks, ask about preterm labor symptoms and IHCP symptoms.
 Back pain.
 - Sudden increase in vaginal discharge.
 - Pelvic pressure.
 - · Cramps/contractions.
- · Educate patient on fetal movement count.

36 Weeks/BIB Date

• Labs: CBC, treponemal testing, HIV testing, GBS culture, GC/CT and trichomonas.

- Review TB status. Draw Quantiferon if status unknown.
- Schedule appointments to be seen each week by Bethel provider through 41 weeks.
- Complete Prematernal Home/Medical Clearance paperwork.
- Ask about any symptoms of:
 - Rupture of membranes.
 - Preeclampsia.
 - □ Labor.
 - Itching.

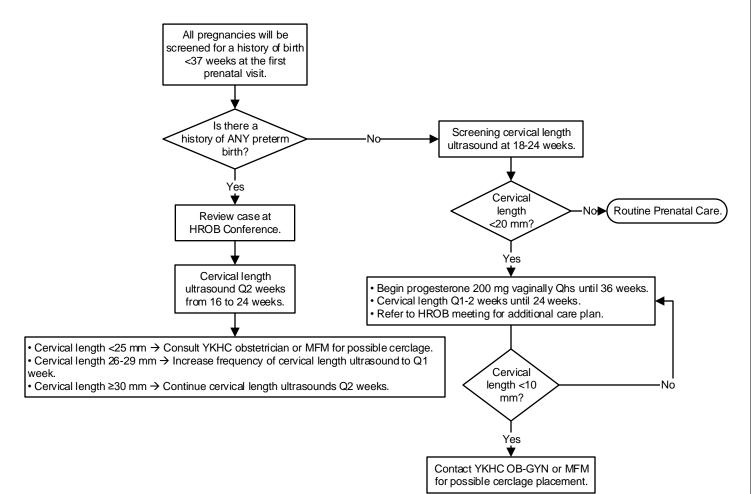
This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by MSEC 7/6/21.

Click here to see the supplemental resources for this protocol. If comments about this guideline, please contact Ellen_Hodges@ykhc.org.





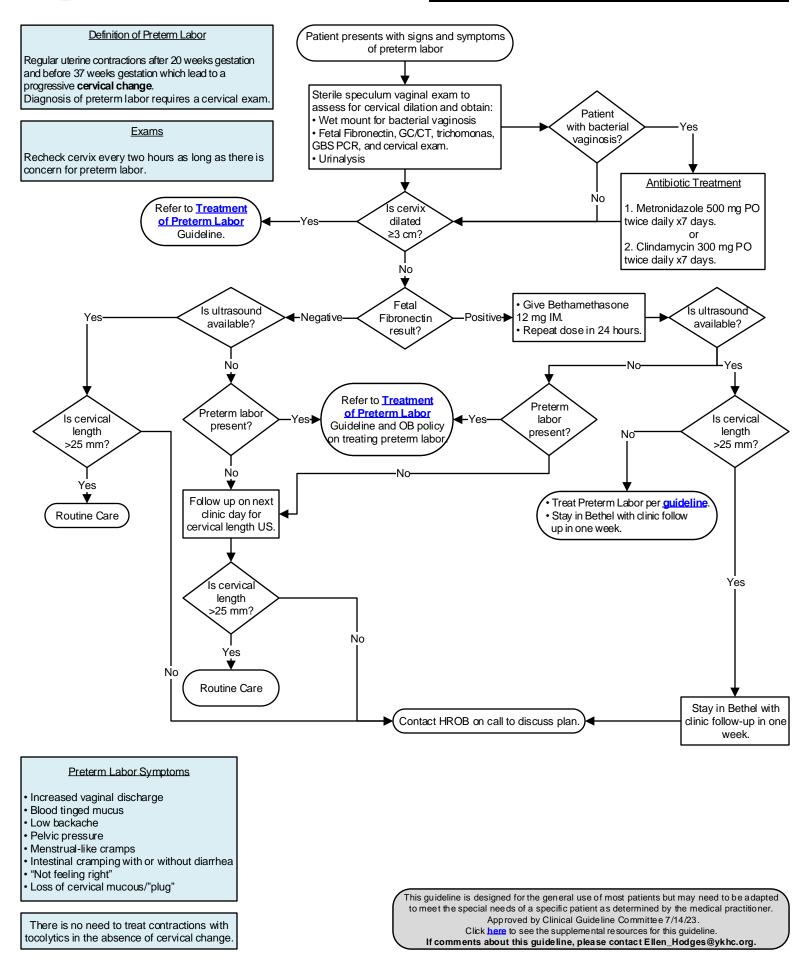
Preterm Labor: Screening and Prevention



This guideline is designed for the general use of most patients but may need to be a dapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 7/14/23. Click here to see the supplemental resources for this guideline. If comments about this guideline, please contact Ellen_Hodges@ykhc.org.



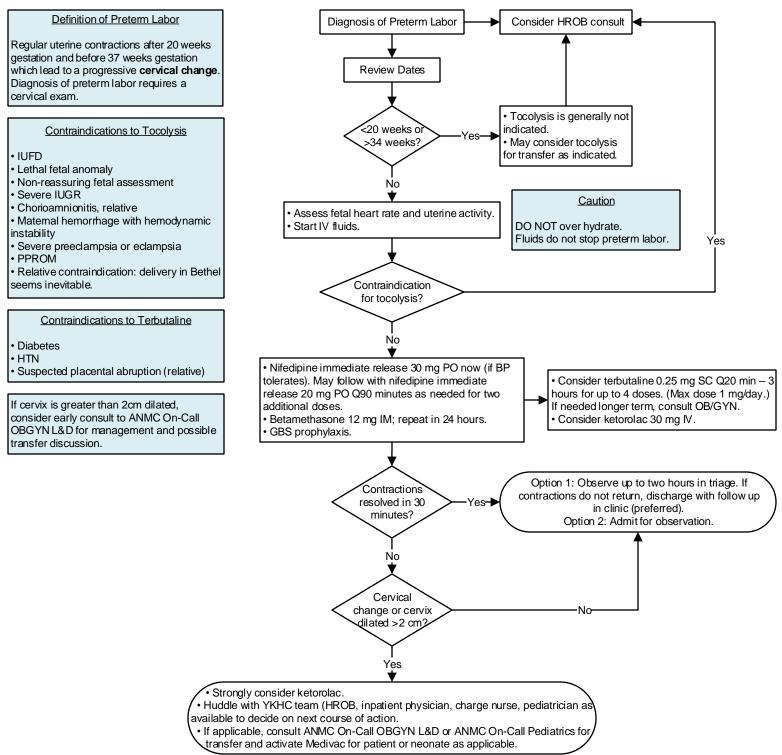
Clinical Guideline Preterm Labor: Evaluation



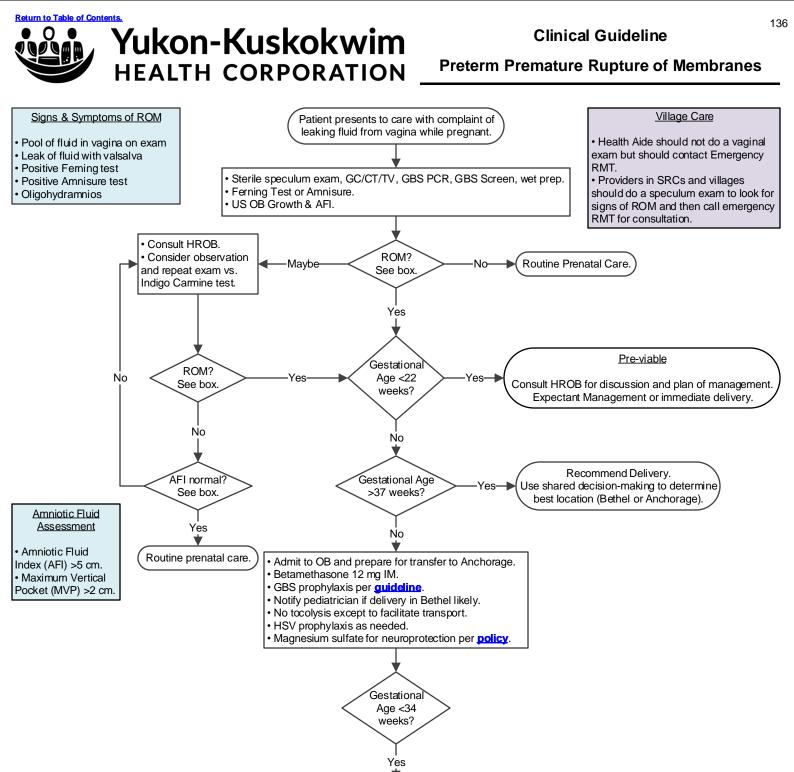


Clinical Guideline

Preterm Labor: Treatment



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Ampicillin 2 grams IV Q6h x48h followed by 250 mg 3xD x3 days. AND Azithromycin 500 mg IV daily x2 days, then 500 mg PO daily x3 days. If allergic to penicillin, give only azithromycin.

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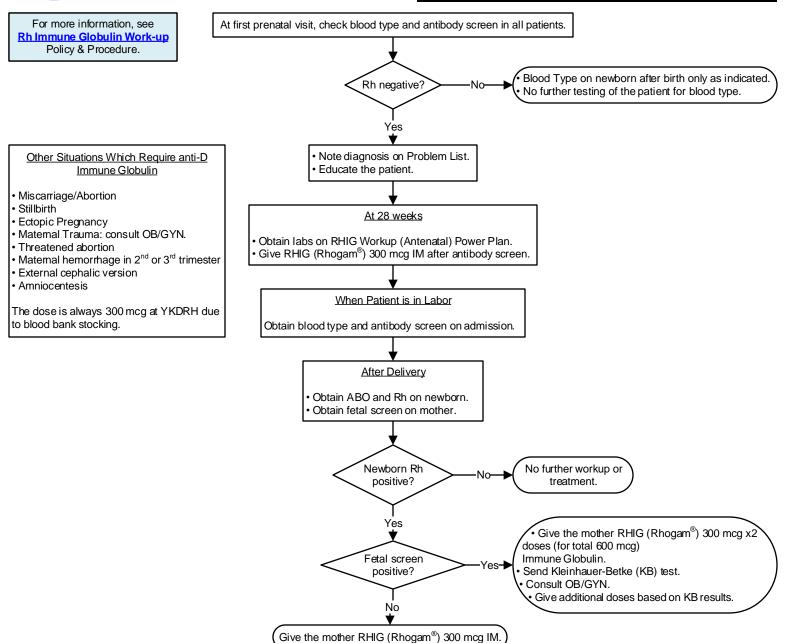
If comments about this guideline, please contact David_Compton@ykhc.org.

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С

Clinical Guideline

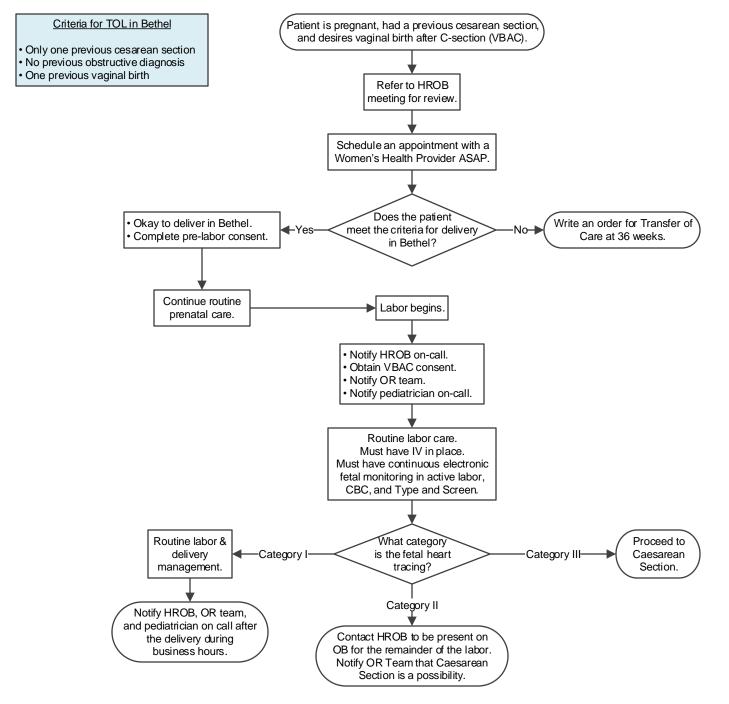
Rhogam[®]



This guideline is designed for the general use of most patients but may need to be a dapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guidelines Committee 11/27/22. Click here to see the supplemental resources for this guideline If comments about this guideline, please contact David_Compton@ykhc.org.



Vaginal Birth after Caesarean Section



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Clinical Guideline

Amoxicillin Allergy Trials (Pediatric)



 Only 4-9% of those...labeled [penicillin-allergic] are currently allergic. It is important to identify those who are not allergic, because children mislabeled as penicillin-allergic have more medical visits, receive more antibiotic prescriptions, and have longer hospitalizations with more antibiotic-related complications.¹

• Up to 10% of children develop rashes while receiving antibiotics. Most are diagnosed...as allergic to the implicated antibiotic, and most continue to avoid the suspect antibiotic in favor of alternatives, which may be less effective, more toxic, and more expensive.²

• Do not label a patient as allergic to penicillin/ amoxicillin unless he or she has true hives, anaphylaxis, or a life-threatening reaction. Please include photos of rashes in RAVEN.

Children labelled as allergic to penicillin/amoxicillin often carry that label for the rest of their lives.
Please consult a pediatrician with any questions.

Anaphylaxis

• Acute onset – several minutes to hours from exposure.

 Generalized hives, pruritis or flushing, swelling of lips/tongue/uvula, and at least one of the following:

Dyspnea, bronchospasm, stridor Hypotension

Evidence of hypoperfusion of endorgans

Persistent crampy abdominal pain, and/or vomiting or diarrhea

Hives vs Viral Rash

 True hives are raised, <u>itchy</u>, larger than dime-sized, come and go, move around the body, and change shape and size. True hives are uncomfortable. Ask if the rash bothered the child.

• Keep in mind that many parents refer to any rash as "hives." Get a

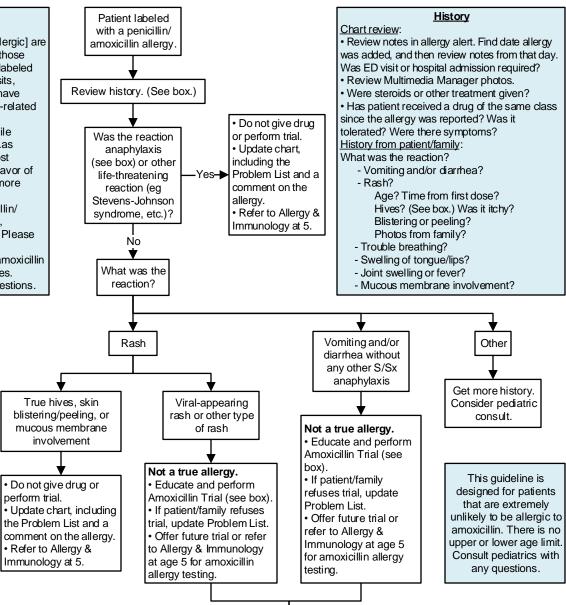
description every time.
A viral exanthem is typically diffuse, fine, pinpoint red dots and can be dense, coalesced, larger raised lesions. The rash typically covers the face and chest but can cover the whole body. The rash typically worsens and takes days to clear.

NOTE: If amoxicillin is needed to treat a life threatening infection, consult Allergy & Immunology to discuss possible desensitization. Alaska Asthma, Allergy, & Immunology can be reached at (907) 562-6228.

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References 1. Kelso JM. "Provocation challenges to evaluate amoxicillin atlergy in children." JAMA Pediatrics 2016;170(6):e160282.

 Mill C, et al. "Assessing the diagnostic properties of a graded oral provocation challenge for the diagnosis of immediate and nonimmediate reactions to amoxicillin in children." JAMA Pediatrics. 2016;170(6):e160033.



Amoxicillin Trial Procedure²

Use AMB Amoxicillin Trial Power Plan.

1. Obtain VS. Perform physical exam, including lung exam. Have appropriate dose of EpiPen or epinephrine. Epinephrine (1 mg/mL): 0.01 mg/kg (or 0.01 mL/kg) IM Q5-15 minutes.

Per AAP recommendations:

- 7.5-25 kg: use EpiPen Jr (0.15 mg)
- ≥ 25 kg: use EpiPen (0.3 mg)

2. Calculate weight-based dose of amoxicillin. Give patient 10% of that dose.

- 3. Place patient in nearby room and instruct caregiver to notify staff of any changes in status.
- 4. If no reaction by 20 minutes, give patient remaining 90% of weight-based dose of amoxicillin.

5. Observe another 60 minutes. If no reaction, check VS and physical exam. If all stable, discharge home with regular course of drug.

6. Give patient and family amoxicillin trial education sheet.

7. Update allergy alert in RAVEN. Click the allergy in the banner. Right click over the drug name and choose "cancel." On the "reason" drop-down menu, choose "OK on Retrial."

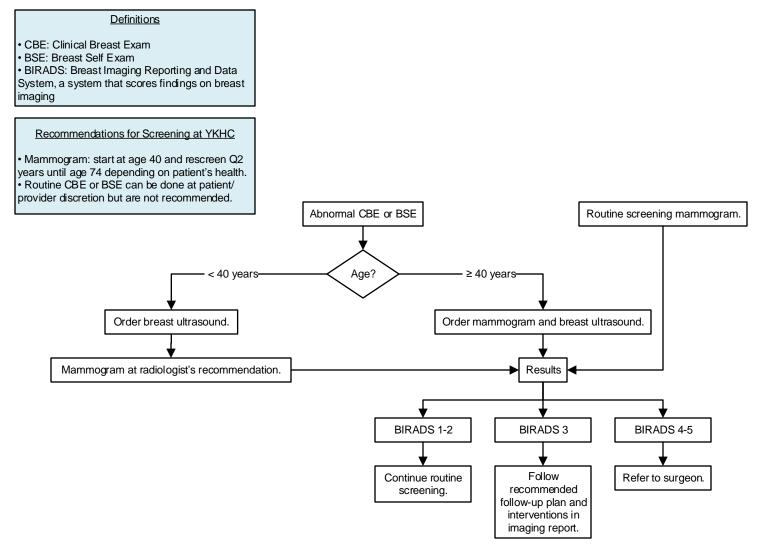
Notes:

• If patient is on a beta-blocker, stop this for 24 hours prior to procedure, if possible. Beta-blockers can interfere with treatment for anaphylaxis, if it occurs.

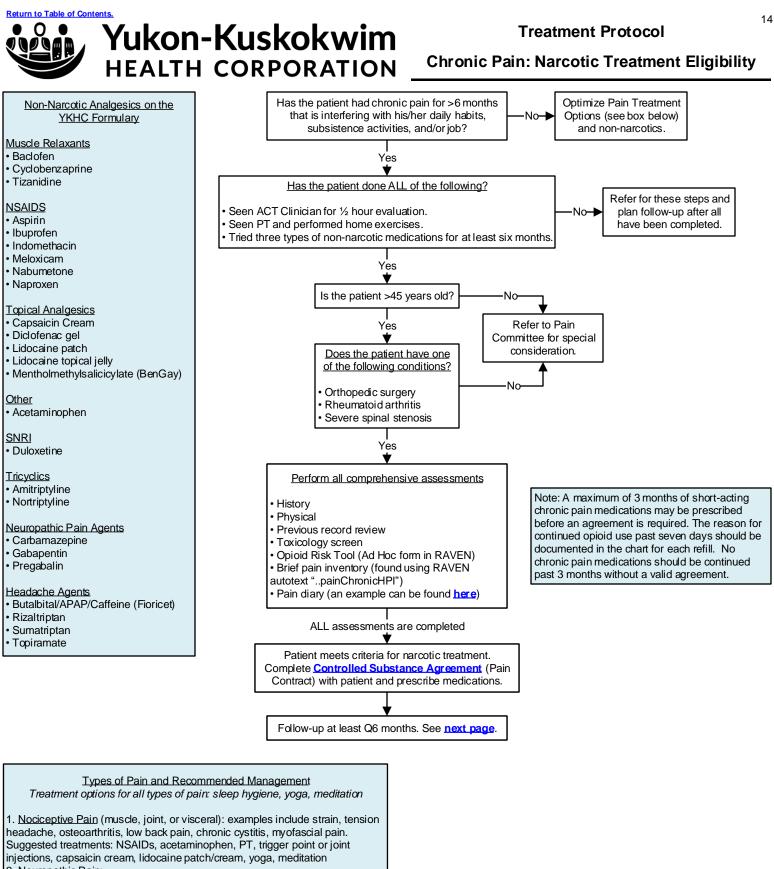
• Ensure that patients with asthma have optimal control prior to this procedure.

This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 8/23/23. Click here to see the supplemental resources for this guideline. If comments about this guideline, please contact Leslie_Herrmann@ykhc.org.





This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 1/11/23. If comments about this guideline, please contact David_Compton@ykhc.org.



- 2. Neuropathic Pain:
- Suggested treatments: NSAIDs, antidepressants (first-line TCAs, duloxetine), gabapentin

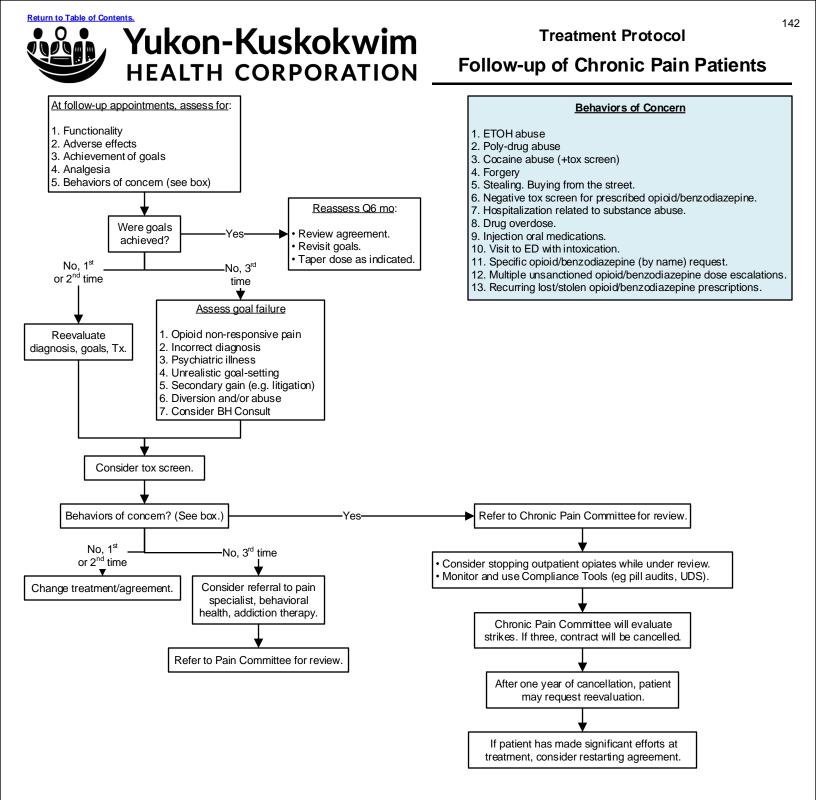
Management for specific conditions:

- · Nerve compression: EMG, MRI, referral to surgeon
- Nerve damage: EMG
- Nerve traction: EMG, PT, yoga, meditation
- · Migraine: sumatriptan, rizatriptan, beta-blockers, etc.
- Reflex sympathetic dystrophy: lidocaine patch
- 3. Idiopathic Pain: examples include fibromyalgia

Suggested treatments: exercise, antidepressants (including duloxetine), yoga, meditation, sleep hygiene

This protocol is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by MSEC 2/1/22.

If comments about this guideline, please contact Heidi_Salisbury@ykhc.org.

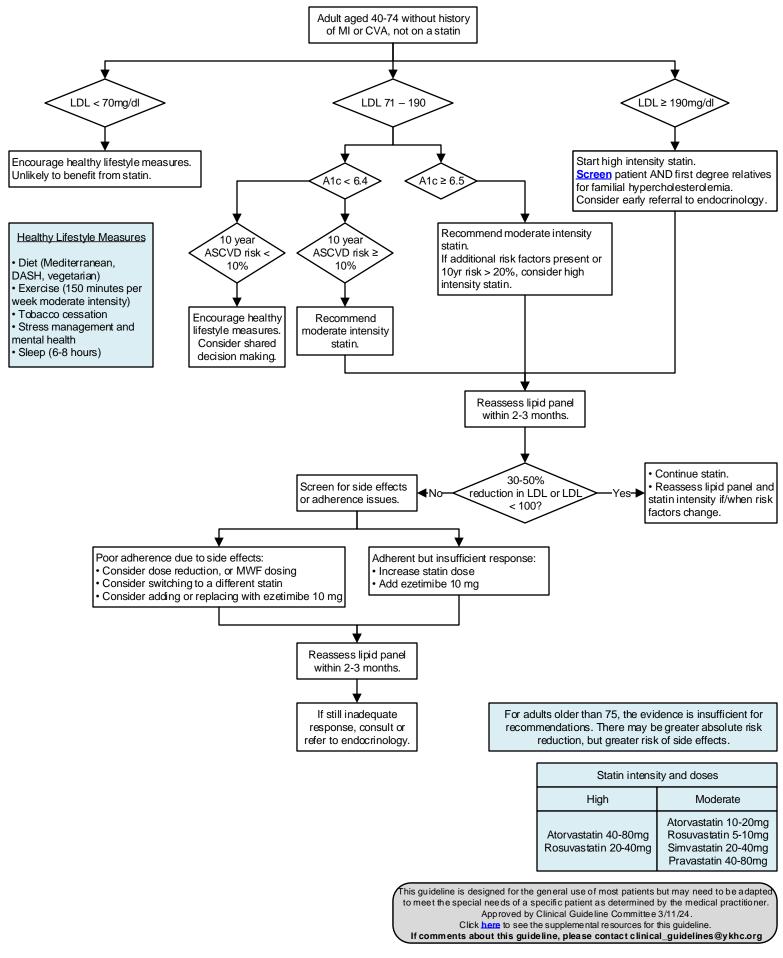


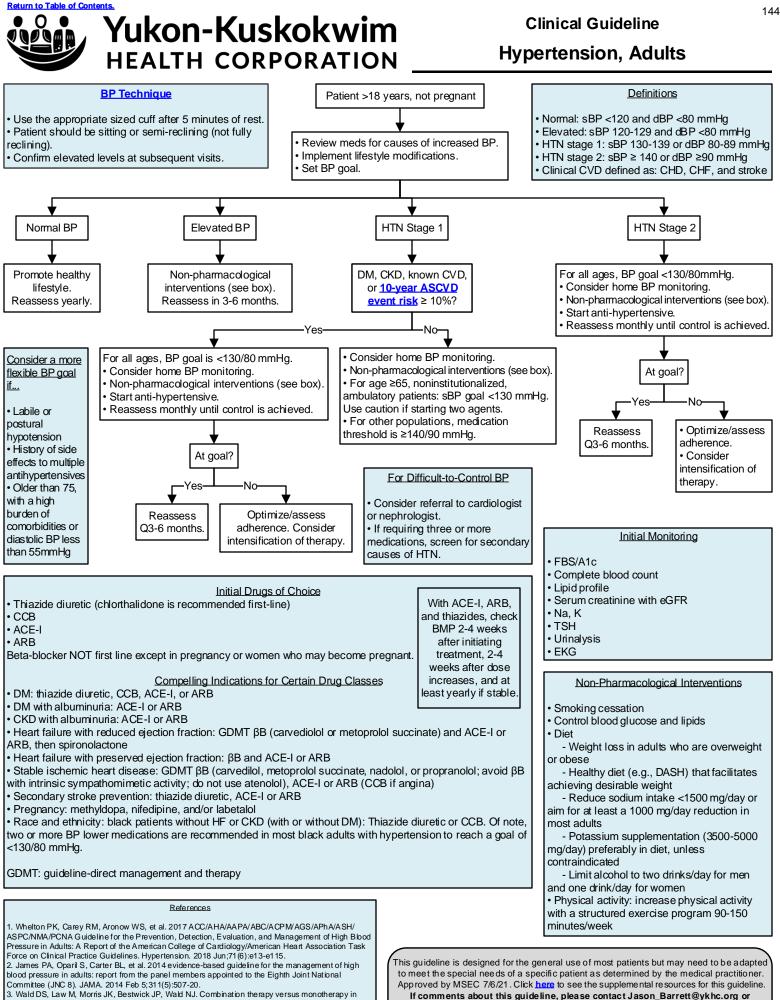
For terminal cancer patients (with life expectancy less than or equal to 6 months) who have previously demonstrated good compliance with Chronic Medication agreement, documentation of titration for pain control as appropriate is acceptable without requiring new agreement. Continue to monitor for achievement of goals/behaviors of concern.

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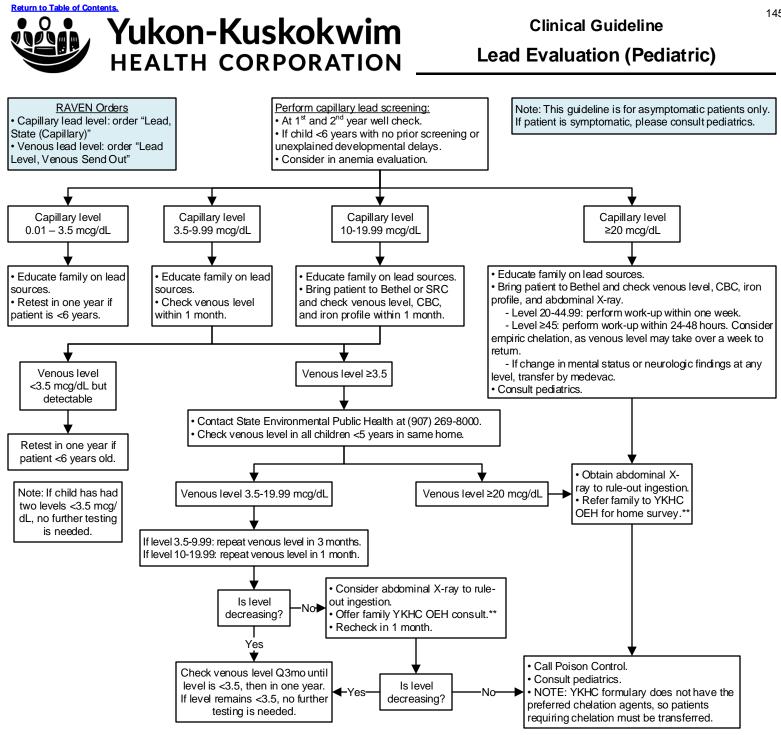
Clinical Guideline Hyperlipidemia





Marsha_Dunkley@ykhc.org.

 Wald DS, Law M, Morris JK, Bestwick JP, Wald NJ. Combination therapy versus monotherapy in reducing blood pressure: meta-analysis on 11,000 participants from 42 trials. Am J Med. 2009 Mar;122(3):290-300.



Common Sources of Lead in Alaska

- Mining lead, zinc, silver, or gold ore
- Lead paint in homes or buildings built before 1978
- Firearms and ammunition
- Shooting ranges
- Game meat shot with lead ammunition
- Fishing weights
- Leaded aviation gas
- Marine paint
- Soldering, welding, or craft-making
- Pica or "mouthing" (eating dirt)
- Imported household objects
- Lead or brass pipes/faucets
- Batteries and automobile repair sites

**To consult YK Office of Environmental Health (OEH), call 543-6420 with patient's name and DOB, lead levels, and parent's contact information.

OEH can review environmental risk factors with family and offer a home visit if appropriate.

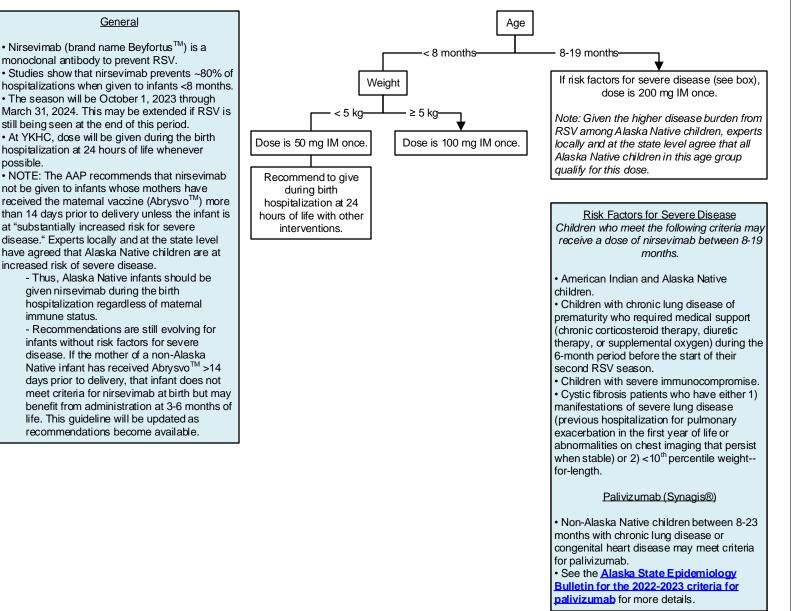
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possible.

Yukon-Kuskokwim HEALTH CORPORATION

Nirsevimab 2023-2024 Season



References and Resources

Alaska State Epidemiology Bulletin for Nirsevimab

 Alaska State Epidemiology Bulletin for RSVPreF Vaccine (Abrysvo) AAP FAQ for Nirsevimab

This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 10/20/23. Click here to see the supplemental resources for this guideline. If comments about this guideline, please contact Leslie_Herrmann@ykhc.org.



Clinical Guideline

Primary Care for Ex-Premies - Checklist

Initial Visit

□ Review NICU/Nursery course and summarize highlights in note. Update Problem List. Make patient CPP.

□ Enter birth weight and gestational age so that RAVEN Growth Chart will correct for gestational age. (Go to Growth Chart \rightarrow Enter New \rightarrow Measurement \rightarrow Preterm Growth Chart: Change date to DOB, enter gestational age at birth, and enter birth weight.)

□ Check height and weight. Do not discharge to village if insufficient weight gain (at least 25 grams per day for 45 consecutive days), temperature <97.7, or rising bilirubin level.

Check bilirubin level if appearing jaundiced. Follow Jaundice in a Baby <4 weeks guideline and peditools.org.

□ Ensure infant is receiving fortified formula (ie Neosure) if discharged from the NICU on it. Infant should remain on this formula until 6 months corrected gestational age. Ensure that family has formula delivery set up from home health company. Contact Pediatric Case Managers if not.

□ Place order: "Refer to Family, Infant, Toddler Program."

□ If bom <34 weeks, place order: "Refer to Child Family Developmental Services External", CFDS Sub-Specialty drop down "NICU Graduate Clinic."

□ Place referrals for any subspecialists per NICU/nursery discharge summary and prescriptions for all medications.

Check POC hemoglobin. If less than NICU discharge hemoglobin, consult a pediatrician.

□ Write Vitamin D prescription with 11 refills and ensure receiving 800 IU Vitamin D supplementation. (Polyvi-sol with iron has 400 IU of Vitamin D per mL)

□ Write iron prescription with 11 refills and ensure receiving iron supplementation (Poly-vi-sol or iron polysaccharide). Needs 2 mg/kg iron supplementation for first year of life. (Note: Poly-vi-sol with iron contains 11 mg of iron per mL.)

All Subsequent Visits until Child is 24 Months Old

□ Review and update Problem List.

□ Assess growth based on corrected gestational age. Consult pediatrics if: there is a need to increase/decrease feeding calories, head circumference growth >1.25 cm/week, or infant is crossing major percentile lines.

□ Check POC hemoglobin at all well visits to monitor for anemia of prematurity. Needs at least 2 mg/kg iron supplementation for first year of life. (Note: Poly-vi-sol with iron contains 11 mg/mL of iron.)

□ Review feeding, sleep, and development in detail. Ensure meeting developmental milestones for corrected age.

□ Check on FIT involvement. If family has not been contacted by FIT, reach out to Peds Wards on Duty, who will contact the FIT liaison.

Give all vaccines per routine schedule based on chronologic age.

Administer ASQ at <u>9 months</u>, <u>18 months</u>, and <u>24 months</u> chronologic age.

□ At 9 months chronological age, ensure infant is scheduled with Audiology. (All former premature infants should have their hearing screened at 9-12 months.)

 \Box Administer MCHAT-R at 18 months and 24 months chronologic age. If score of \geq 3 (fail), schedule with pediatrics.

□ Ensure specialty appointments/referrals have been made.

□ If on caffeine, alter dose based on Caffeine Protocol, Post-NICU Discharge Resource.

Ensure infant has received nirsevimab (Beyfortus). If unavailable, send email to YKHCSynagis @ykhc.org so infant may be screened for palivizumab (Synagis).

□ Ensure receiving Vitamin D 800 IU supplementation for first year of life (Poly-vi-sol with iron has 400 IU of Vitamin D per mL).

Fo consult the pediatrician on call,
send a message through Tiger
Connect to Peds Wards on Duty.

General Information Soy milk formulas should not be given to preterm infants. Physiologic reflux is more common in preterm infants. There is no evidence to support the use of gastric acidity inhibitors. H₂ blockers and PPIs are associated with gastroenteritis, pneumonia, and bone fractures. Catch up growth of premature infants occurs for head first (3-8 months), then weight, then length. Recommend every member of the household is up to date on pertussis vaccine, COVID, and seasonal influenza vaccines to protect these high-risk infants. Criteria for Referral to Child Family Developmental Services (CFDS) Birth to Three High Risk Clinic This is a specialty clinic in Anchorage that follows high-risk infants. • Birth weight (BW) <1500 grams. • Gestational age <34 weeks. Cardiorespiratory depression at birth • Apgar score <5 at 5 minutes Prolonged hypoxia, acidemia, hypoglycemia, or hypotension requiring pressors. Persistent apnea requiring medication. • Oxygen support for >28 days and Xray findings consistent with chronic lung disease. Extracorporeal membrane oxygenation (ECMO) · Persistent pulmonary hypertension of the newborn (PPHN) Seizure activity Intracranial pathology, including intracranial hemorrhage, periventricular leukomalacia, cerebral thrombosis, cerebral infarction, or any developmental/central nervous system (CNS) abnormality Other neurological insult, including hypoxic ischemic encephalopathy (HIE), kernicterus, sepsis, CNS infection Confirmed prenatal exposures to alcohol, methamphetamines, opiates, or Suboxone. Please see the <u>Care of Late Preterm</u>

Please see the <u>Care of Late Preterm</u> <u>Newborns</u> guideline for information about late preterm babies who were cared for at YKDRH and were not admitted to a NICU.

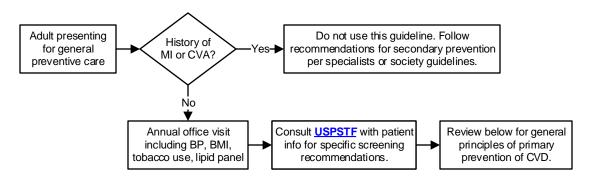
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Yukon-Kuskokwim HEALTH CORPORATION

Primary Prevention of Cardiovascular Disease



Aspirin	Age 40-59	Calculate <u>10 yr ASCVD risk</u> . If risk > 10%, recommend shared decision making. Evidence supports a moderate likelihood that aspirin will prevent non-fatal MI or CVA. There is no evidence of impact on mortality or colorectal cancer. There is increased risk of bleeding (GI, hemorrhagic stroke), of uncertain degree.
	Age > 60, or 40-59 with < 10% ASCVD risk	Recommend against initiation of aspirin for primary prevention.

		Recommend statin. There is evidence of moderate mortality benefit. Refer to hyperlipidemia guideline for dosing options.
Statins	Age 40-75 with 1+ risk factor and 10 yr ASCVD risk 7.5 – 10%	Recommend shared decision making. There is evidence of a small mortality benefit and not more than a small risk of harm. Refer to hyperlipidemia guideline for dosing options.
	Age > 76 with no hx CVD and not already taking statin	Inadequate evidence to make recommendation. Inadequate evidence of benefits and harms in this age group.
	LDL > 190	These patients are excluded from above recommendations. Refer to hyperlipidemia guideline.

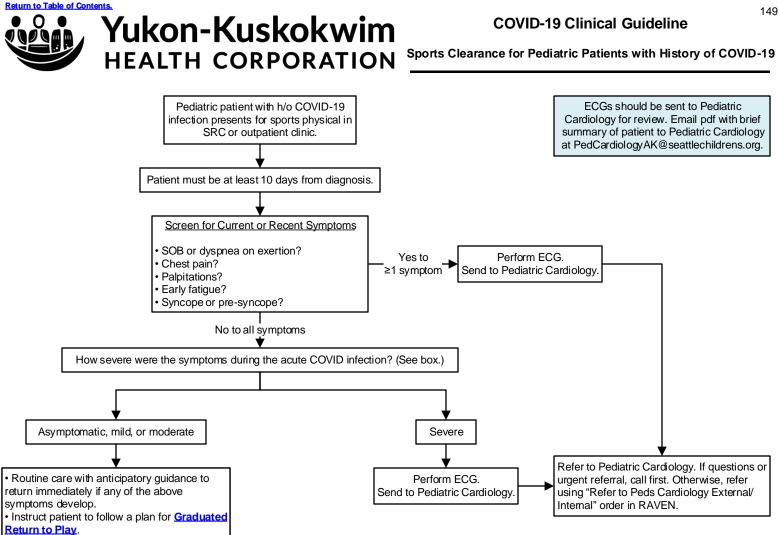
Hypertension	Annual screening for all adults > 40 and adults 18-40 with increased risk (obesity, Black persons, prior high normal BPs, tobacco use, others.) USPSTF reports insufficient evidence to recommend cutoff at 130/80 vs 140/90. Recommend confirming with ambulatory BP monitoring if possible. Can refer to this <u>State of Alaska program</u> for home BP cuff. See hypertension guideline for medication recommendations.
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Tobacco cessation	All adults who use tobacco	Strong recommendation with strong certainty to encourage cessation. "Refer to Nicotine Control- Internal." There is convincing evidence to support to use of NRT, bupropion sustained release, and varenicicline. There is convincing evidence to support combining two types of NRT (e.g. gum/lozenge + patch) or combining NRT with bupropion. There is insufficient evidence of benefit for e-cigarettes.
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UDESITV	Adults with Bivil > 30 on	USPSTF recommends referral to multicomponent behavioral intervention for weight loss. At YK, consider: referral to Diabetes nutrition counseling if diabetic, referral to <u>State of Alaska program</u> , or regular clinic visits for discussion of safe and sustainable programs, goal setting, and follow through.
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	PCOS family history dietary	Screen with A1c every 3 yrs if value remains normal (< 5.7). There is moderate certainty evidence of moderate mortality and morbidity benefit. If A1c > 5.7, refer to Diabetes guideline .
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Symptom Severity Classification for this Guideline

Mild: no fever, <3 days of symptoms Moderate: prolonged fevers and bedrest, hospitalization not required, no abnormal cardiac testing throughout course

 Severe: hospitalized, abnormal cardiac testing, or MIS-C

Note: Providers may use their clinical judgment and perform an ECG if cardiac concerns not addressed by this guideline.

Phone Numbers

Seattle Children's Pediatric Cardiology of Alaska (located in Anchorage): • Phone: (907) 339-1945 Fax: (907) 339-1994

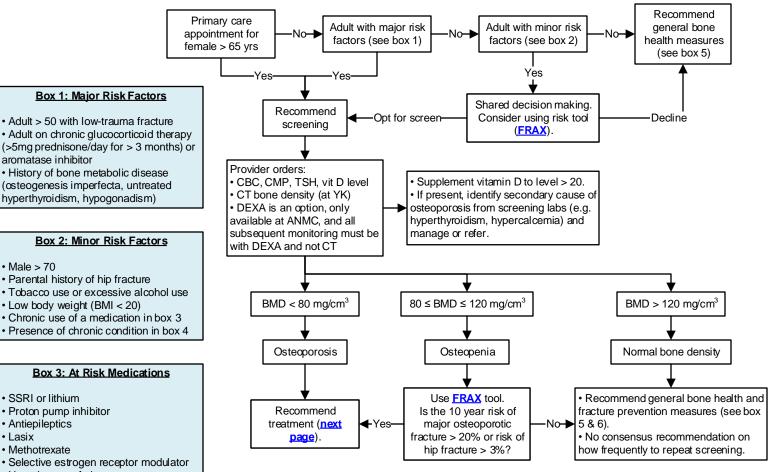
This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 9/25/23. Click here to see the supplemental resources for this guideline. If comments about this guideline, please contact Leslie_Herrmann@ykhc.org



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Yukon-Kuskokwim HEALTH CORPORATION

Clinical Guideline Osteoporosis Screening



Heparin or warfarin

Box 4: At Risk Conditions

- DM type 1
- Premature menopause (age < 40)
- Chronic liver disease
- Chronic malnutrition or malabsorption
- Rheumatoid arthritis

Box 5: Promote Bone Health

• Ensure adequate intake of calcium and vitamin D, either through diet or supplementation.

Recon	nmended	Calcium	Intake
•	~		

Age	<u>Sex</u>	RDA mg/day		
19-50	M+F	1000		
51-70	М	1000		
51-70	F	1200		
>70	M+F	1200		
Recomm	ended Vit	amin D Intake		
Age	ended Vit	amin D Intake RDA IU/day		
Age	<u>Sex</u>	RDA IU/day		

 Recommend at least 90 minutes weight bearing exercise per week

• Maintain healthy weight. Avoid tobacco or excess alcohol.

Box 6: Prevent Fractures

Home safety review (loose rugs/cords, grab

- bars in bathroom, adequate lighting, etc)
- Prescribe walker or cane if appropriate
- Address polypharmacy, deprescribe if appropriate (diuretics, beta blockers,
- sedatives)
- Screen for visual and hearing impairment
- Consider PT referral

References

- ANMC Osteoporosis Guideline
- USPSTE
- American College of Radiology

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If comments about this guideline, please contact clinical_guidelines@ykhc.org.



Clinical Guideline Osteoporosis Treatment

Patient meets any of the following criteria for osteoporosis treatment:

History of fragility fracture (low mechanism injury with

fracture to hip, spine, or forearm)Bone density testing consistent with osteoporosis

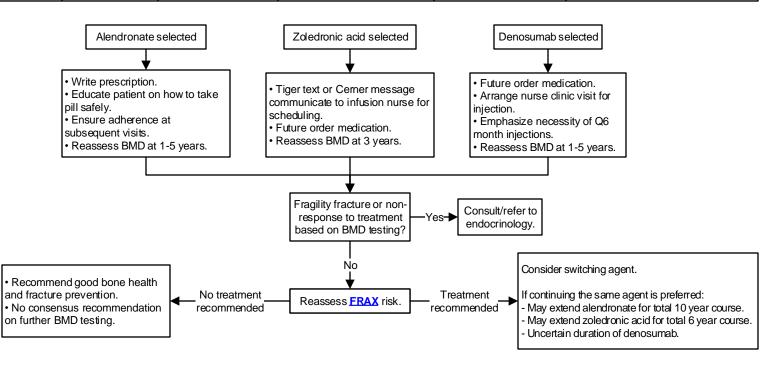
Bone density testing consistent with osteopolosis

high FRAX risk

 Calcium and vitamin D repletion are ensured?
 Secondary causes of osteoporosis have been considered?

 Discussion of treatment options, risks and benefits (see table). If Zoledronic Acid or Denosumab chosen, complete worksheet on page 3.

Agent	Route of administration	Frequency and duration	Efficacy	Contraindications	Adverse effects
Alendronate	PO (first thing in the morning on empty stomach with glass of plain water, then sit upright x 30 min)	Daily or weekly for 3-5 years. Followed by 2 year break.	 Reduces risk of serious fracture by 20-70% over 10 years. Number needed to treat is between 17 and 100. 	 CrCl < 35 ml/min Severe esophagitis or esophageal dysmotility (not just GERD) Inability to sit upright x 30 min 	 Osteonecrosis of the jaw estimated risk 1-5 in 10,000. Severe esophagitis. Atypical femur fracture. Note: in RCTs there was no significant difference in adverse effects vs placebo.
Zoledronic acid	IV infusion Annually for 3 year followed by 2 year break		Same as alendronate, but may be enhanced by increased adherence	CrCl < 35ml/min	 Same as alendronate Potential difficulty/delay in emergency dental care Infusion reaction
Denosumab	Subcutaneous injection	Every 6 months, discontinuation must be immediately followed by bisphosphonate	Same as bisphosphonates.	Inability to complete Q6 month visits.	ONJ estimated risk 3 in 1,000 Rapid bone density loss upon discontinuation if not followed immediately by bisphosphonate



References

• American Society of Endocrinologists

American Society of Endocrinologisi

American College of Physicians

AAOMS Position Paper on MRONJ 2022

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Informed Consent Worksheet

Osteoporosis Treatment Options and Consent I am considering taking either Zoledronic Acid (Reclast) or Denosumab (Prolia) to lower my risk of serious fracture. My provider has discussed the following risks, benefits, and alternatives with me.					
Purpose of treatment	 Reduce risk of serious fracture such as hip, pelvis, or spine fracture. Elders living in the YK Delta might have a higher risk of fracture than others in the US. This might be a 3-4 percent risk over ten years, or a 1 in 25 chance. Serious fractures can lead to long hospital stays, loss of independence, need for nursing homes, and even increased risk of death. 				
Benefits of treatment	 All of the available medicines at YK are effective at preventing fractures. All of the medicines could lower the risk of serious fracture by between 20 and 70 percent. This might reduce a person's risk of serious fracture from 3-4 percent to as low as 1 percent. 				
Risks of treatment	 The medicine isn't effective for me and I have a serious fracture anyway. Osteonecrosis of the jaw. This means exposed jaw bone that is painful or infected, and could result in multiple surgeries or chronic pain. This is most likely to happen after a pulled tooth or dental procedure. But it can happen spontaneously. The risk of that side effect could be between 0.01% (1 in 10,000) and 0.3% (1 in 300). The risk can be lowered by regular dental care and good oral hygiene. Other rare side effects: atypical femur fracture, esophagitis, allergic/infusion reaction If the medicine is not taken exactly as the provider instructs, it may not be effective. One of the medicines (Denosumab) will actually increase the risk of fracture if not taken every 6 months. 				
Alternatives to treatment	 Alendronate This is the same type of medicine as Zoledronic Acid. It is taken as a pill once a week and the person must take it first thing in the morning on empty stomach with glass of plain water, then sit upright for 30 minutes. It is about as effective as Zoledronic Acid, if people can remember to take it correctly. It also has a risk of osteonecrosis of the jaw, but if there are dental problems it is easier to stop this medicine than Zoledronic Acid. It is very important for all adults to stay active, get at least 90 minutes of weight bearing physical activity per week, consume enough calcium and vitamin D, and leam about preventing falls in the home.				

I would like to start treatment for osteoporosis with Zoledronic Acid or Denosumab. I understand the purpose, benefits, risks, and alternatives that my provider reviewed with me.

Please choose one:

[] I would like to start the treatment right away. This may have more benefit preventing fractures sooner, but also more risk if I have a dental emergency. [] I would like to see a dentist before starting treatment. I understand this may result in a delay before I can start the medicine.

Patient Signature: ____

Printed Name: ____

Date and Time: ____

All patients should be verbally referred and encouraged to see a dentist even if they want to immediately start treatment. Dental takes walk in patients every day. Providers are also welcome to consult with a dentist before counseling a patient on their dental risks. This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by MSEC 11/7/23. Click here to see the supplemental resources for this guideline. If comments about this guide line, please contact clinical_guidelines@ykhc.org.



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Yukon-Kuskokwim HEALTH CORPORATION

Pre-Anesthesia Management

Age	Hb/Hct	Coags	Lytes	BUN/Cr	Glucose	LFTs	EKG	CXR	T&S
30 months – 59 years	No routine testir	ng needed in this a	age group.		•				
60 – 74 years							Х		
Disease	Hb/Hct	Coags	Lytes	BUN/Cr	Glucose	LFTs	EKG	CXR	T&S
Hypertension			Х				х		
Card – moderate	x		Х	X			Х		
Smoker > 20 years	x								
Malignancy	x								
Lymphoma	X (CBC)							Х	
Hepatic	X	Х	Х			Х			
Renal	X	Х	Х	X					
Bleeding	X (CBC)	Х							
Diabetes			Х	Х	X		Х		
Expected blood loss	X								Х

Medication	Hb/Hct	Coags	Lytes	BUN/Cr	Glucose	LFTs	EKG	CXR	T&S
Diuretic			X	x					
Antihypertensive			X	X			Х		
Cardiac medication			X	X			Х		
Steroid			Х		X				
Anticoagulant	Х	Х							

<u>Other</u>

Urine hCG: obtain within 48 hours of surgery in women of childbearing age (13-50).

Drug Levels: draw level on all patients on digoxin or phenytoin.

CXR: obtain if recent change in sputum quality or color, pneumonia in past three months, chronic home oxygen use, planned intrahoracic surgery, or if exam reveals rales, rhonchi, or wheezes.

Surgical Risk Screening for Elective Procedures (including endoscopy)

1. Patients who are not to be scheduled at YKHC:

- a. Patients with BMI > 45.
 - b. Severe obstructive sleep apnea.
 - c. Patients with pending cardiology, pulmonology, or sleep study referrals.
 - d. Patients younger than 30 months.
 - e. Patients older than 75 years.

f. Medically unstable patients (for example, uncontrolled diabetes mellitus, uncontrolled hypertension, etc.).

2. Preventative antibiotic therapy will be administered within one hour prior to skin incision per protocol pre-operatively based on procedure type and patient's allergies unless otherwise ordered by physician.

3. DVT/VTE prevention methods will be implemented using SCIP Mechanical Prophylaxis Protocol unless contraindicated or otherwise documented in orders by physician.

Diabetes Management

1. Oral agents: Discontinue SGLT2 inhibitors 3-4 days prior to surgery. Discontinue all other oral agents the evening prior to surgery, except Metformin can be taken. No oral agents except Metformin the morning of surgery.

2. For patients who take insulin, consult pharmacy.

- For patients who take long acting insulin in the moming, take 50% dose of NPH insulin or 75% dose of long-acting insulin (lantus) the moming of surgery. For patients who take long acting insulin at night, take 75% dose of NPH or lantus the night before surgery.
- For patients who take short acting insulin (regular, aspart), stop this insulin when fasting begins.
- 3. Consume apple or cranberry juice up to two hours prior to arrival to surgery if insulin was given.
- 4. For insulin pumps, set to basal rate and continue throughout pre-operative period.
- 5. Upon arrival to Holding Area, obtain glucose level. Anesthesia will treat results.

Please send a message via Tiger Connect to "OR CRNA on call" with any questions about patient selection, etc. This protocol is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved 6/6/22. If comments about this protocol, please contact Jennifer_Lent@ykhc.org.

153

See YKHC Policy & Procedure on Patient Selection Criteria for Ambulatory Surgery.





NPO Guidelines

1. All patients are to be NPO after midnight the night before the procedure. Additionally, patients undergoing endoscopy or with delayed gastric emptying will receive more extensive NPO instructions.

2. Patient may brush his/her teeth but should not swallow toothpaste.

3. Gum and candy of any type are not allowed.

4. All patients will be allowed to eat a full, regular diet (solids) up to eight hours prior to surgery. Patients going to the OR at 0730 who were NPO after midnight are considered to meet this standard.

	Estimat	ed Energy Requirements for Various Activities, Based on Duke Activity Status Index*
1 MET	Can you	
		take care of yourself?
		eat, dress, or use the toilet?*
		walk indoors around the house?
		walk one or two blocks on level ground at 2-3 mph (3.2-4.8 kph)?
< 4 METs	Can you	
		do light work around the house, such as dusting or washing dishes?
≥ 4 METs	Can you	
		climb a flight of stairs or walk up a hill?
		walk on level ground at 4 mph (6.4 kph)?
		run a short distance?
		do heavy work around the house, such as scrubbing floors or lifting or moving furniture?
		participate in moderate recreational activities, such as golf, bowling, dancing, doubles tennis, or throwing a baseball or football?
≥ 10 METs	Can you	
		participate in strenuous sports, such as swimming, singles tennis, football, basketball, or skiing?
MET = metabolic equ	ivalent	
Adapted from J AM Co	Il Cardiol, with pe	ermission from Elsevier.

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Resource

Wound Care Supplies

Dressing	Description	Drainage	When to Use	Frequency of Change	Examples
Polymem	Pink foam	Light to moderate	Burns, lacerations, abscesses, pressure injuries; nearly any superficial or partial-thickness wound. Doesn't stick to wound.	QOD, up to Q7 days	Mar Max Bar Carl
Mepilex	White foam	Light to moderate	Burns that are smaller in size, lacerations, abscesses, pressure injuries, nearly any superficial or partial-thickness wound. Doesn't stick to wound. Silicone backing keeps dressing from sliding	QOD, up to Q7 days	
Adaptic	Impregnated gauze	Light to heavy	Burns, frostbite, abcesses, pressure injuries; nearly any superifical, partial or full-thickness wound. Doesn't stick to wound.	Daily	
Gauze	Woven white material	Light to heavy	Always put Adaptic down first. Gauze will stick to wound if applied directly. Used to absorb drainage.	Daily	
ABD pad	Thick white pad	Heavy	Always put Adaptic down first. ABD will stick to wound if applied directly. Used to absorb drainage.	Daily	
Duoderm	Tan with gel-like backing	Light to moderate	Pressure injuries (Stage I-III)	Q3 days	CDADDRACK Control of the Control And Control of Control Workshow Allowers, Control of Control
Sorbalgon	Tightly woven seaweed	Moderate to heavy	Helps absorb exudate. Cut to fit in cavity wound. Not indicated for tunneling as particles may remain when dressing removed.	Daily	Sorbalgon.
Packing strip	Strips of tightly woven gauze	Light to heavy	Used to fill tunnels, undermining or the wound bed. Pack lightly not tightly. Always document how many pieces used and remove that same number at next dressing change.	Q1-2 days	
Kerlix	Fluffy white roll	Heavy	To secure primary dressing in place vs using tape.	When primary dressing is changed	
Flexicon	Roll with blue line	Light to moderate	To secure primary dressing in place vs using tape.	When primary dressing is changed	

Notes

• Primary dressing is directly in contact with the wound.

Secondary dressing is the outer dressing (Medipore pad, Flexicon, etc.).
Frequency of dressing change will almost always be based on amount of drainage. The goal is to select a dressing that allows for changes every other day or longer.

This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 12/9/22. If comments about this guideline, please contact ClinicalGuidelines@ykhc.org.

155

Return to Table of Contents.

Yukon-Kuskokwim HEALTH CORPORATION

Resource

Wound Care Supplies

Dressing	Description	When to Use	Frequency of Change	Examples
Tegaderm	Clear sheet	Can be used in place of tape for larger wounds. Occlusive.	When primary dressing is changed.	
Medipore pad	Thin white foam with tape border	Can be used to secure Polymem, Mepilex, or Adaptic with gauze.	When primary dressing is changed.	
Cavilon No-Sting Barrier	Wipe or Iollipop	Used around outside of wound to protect skin. Used with moderate to heavily draining wounds or with tape irritation.	Apply every three dressing changes.	Cavinor Barrer Far Barrer Far Bar
Bacitracin	Antibiotic ointment	For wounds with local or systemic infection.	With every dressing change.	Height Stream Barrier (1997)
Santyl	Enzymatic debrider (ointment)	Wounds with adherent slough. Must be able to reach base of wound to be effective (bottom-up debrider).	Daily	enteres Construction Constructi
Duoderm hydrogel	Hydrating ointment	Use over exposed tendon for hydration; use over thick eschar that needs to soften for debridement.	With every dressing change.	
Aquaphor	Clear emmoliant	Burns or frostbite wounds that are epithelializing, healed wounds that itch due to dryness.	Daily (sometimes 2-3x/ day).	Aquaphor market Sector
Calmoseptine	Pink lotion	On skin that itches (intact or with little wounds). Can also be used to protect against moisture from exudate, urine, or stool.	Daily (do not scrub off).	Galinosoptine- William I
Cavilon Barrier Cream	White lotion	Good on perineum to protect against urine and stool.	Daily (do not scrub off).	See 10 Carlon Dealer See 10 See 10 Se
Chlorhexidine	Liquid or scrub	If baterial load is high. Can be used 1-3 times and then stop to prevent cytotoxic effects.	At most 3 consecutive days.	
Interdry	White fabric	Used to wick moisture between skin folds (with or without the presence of yeast). Do not use with creams or powders. Allow a minimum of 2" of fabric exposed outside the skin for moisture evaporation.	Can be used up to 5 days, depending on fabric soiling, odor, amount of moisture.	

<u>Notes</u>

• Primary dressing is directly in contact with the wound.

• Secondary dressing is the outer dressing (Medipore pad, Flexicon, etc.).

• Frequency of dressing change will almost always be based on amount of drainage. The goal is to select a dressing that allows for changes every other day or longer. This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 12/9/22.

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Resource

Return to Table of Contents.

Yukon-Kuskokwim HEALTH CORPORATION

Wound Care Sample Scripts

Wound Type	Sample Wound Care Scripts
Burn	Initial Dressings (when wound drainage is heavy, first 1-2 weeks): Usually changed 1-2x/day. 1. Bacitracin ointment applied to Adaptic then applied to wound 2. Cover with Abdominal pad 3. Secure with Kerlix or Flexicon Once Drainage Slows: Usually changed every 2 days. 1. Cover wounds with just Polymem or Mepilex 2. Secure with Flexicon Aquaphor or similar emollient should be applied to newly healed skin daily to prevent drying out and cracking.
Frostbite	Initial Dressings (when wound drainage is heavy, first 1-2 weeks): Usually changed 1-2x/day. 1. Bacitracin ointment applied to Adaptic then applied to wound. 2. Cover with Abdominal pad. 3. Secure with Kerlix or Flexicon. Once Drainage Slows: Usually changed every two days. 1. Cover wounds with just Polymem or Mepilex. 2. Secure with Flexicon. Aquaphor or similar emollient should be applied to newly healed skin daily to prevent drying out and cracking. Allow blackened areas to remain dry. No ointment application here.
Abscess	Lightly fill wound cavity with Packing Strip (usually ¼" width) or Calcium Alginate (Sorbalgon). <u>If drainage is heavy</u> : <i>Usually changed daily</i> . 1. Cover with Adaptic and ABD pad. 2. Secure with Flexicon. <u>If drainage is light</u> : <i>Usually changed every two days</i> . 1. Cover with Polymem or Mepilex. 2. Make sure all edges are secure (Medipore tape, Medipore pad, Tegaderm or wrap). Discontinue packing once wound bed has filled and cavity no longer exists
Tunneling Abscess	Lightly fill wound tunnel with Packing Strip to base of tunnel. Then fill remaining cavity with more Packing Strip or Calcium Alginate (Sorbalgon). If drainage is heavy: Usually changed daily. 1. Cover with Adaptic and ABD pad. 2. Secure with Flexicon. If drainage is light: Usually changed every two days. 1. Cover with Polymem or Mepilex. 2. Make sure all edges are secure (Medipore tape, Medipore pad, Tegaderm, or wrap). Discontinue packing once tunnel is <2 cm.
Pressure Ulcer	Stage II: Usually changed every 3 days. Cover wound with Tegaderm Hydrocolloid or Duoderm. Stage III and IV Fill wound cavity with Packing strip (usually ¼" width) or Calcium Alginate (Sorbalgon). If drainage is heavy: Usually changed daily. 1. Cover with Adaptic and ABD pad. 2. Secure with Tegaderm transparent film. If drainage is light: Usually changed every three days. Cover with Duoderm or Tegaderm Hydrocolloid
Laceration	If edges are slightly jagged but can nearly come together Apply Steri strips or tissue adhesive. If edges are quite jagged and cannot approximate: Usually changed daily. 1. Apply bacitracin to wound (use <1 week).
Abrasion	If drainage is heavy: Usually changed daily. 1. Cover with Adaptic and gauze. 2. Secure with Medipore pad. If drainage is light: Usually changed every 2-3 days. 1. Cover with Polymem or Mepilex. 2. Make sure all edges are secure (Medipore pad, Tegaderm, Medipore tape, or wrap).

<u>Notes</u>

• Any wound that is draining heavily will likely need Cavilon No-Sting skin protectant applied around wound to prevent maceration. This can be reapplied every other dressing change.

• All wounds should be cleaned with wound cleanser or saline prior to application of new dressings.

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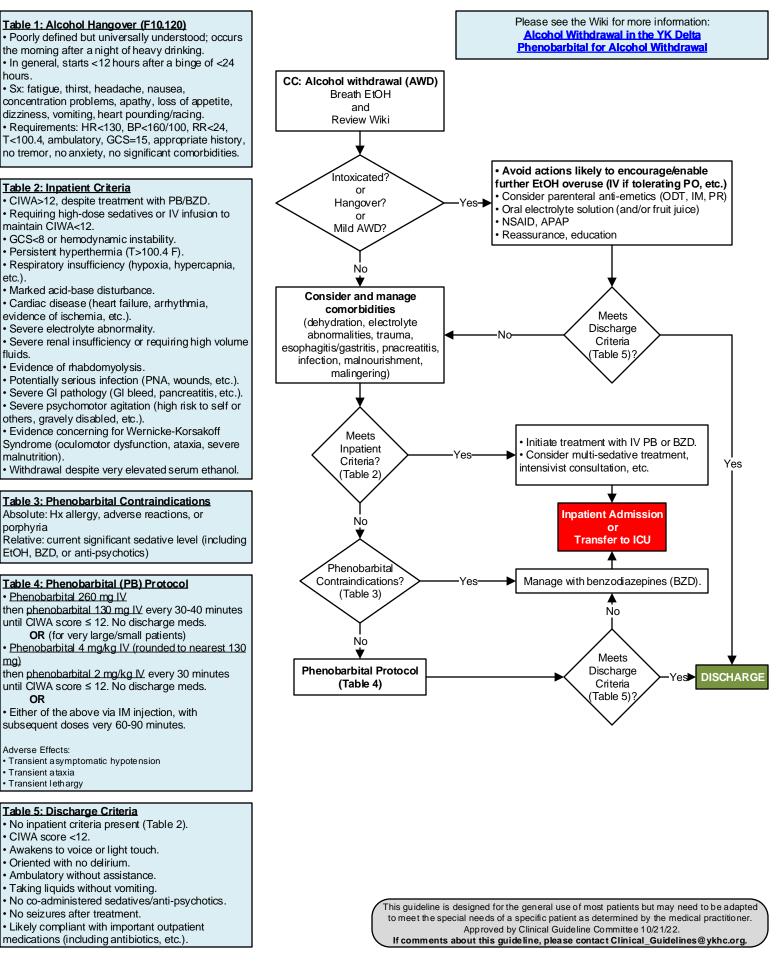
If comments about this guideline, please contact ClinicalGuidelines@ykhc.org.

Return to Table of Contents

Yukon-Kuskokwim HEALTH CORPORATION

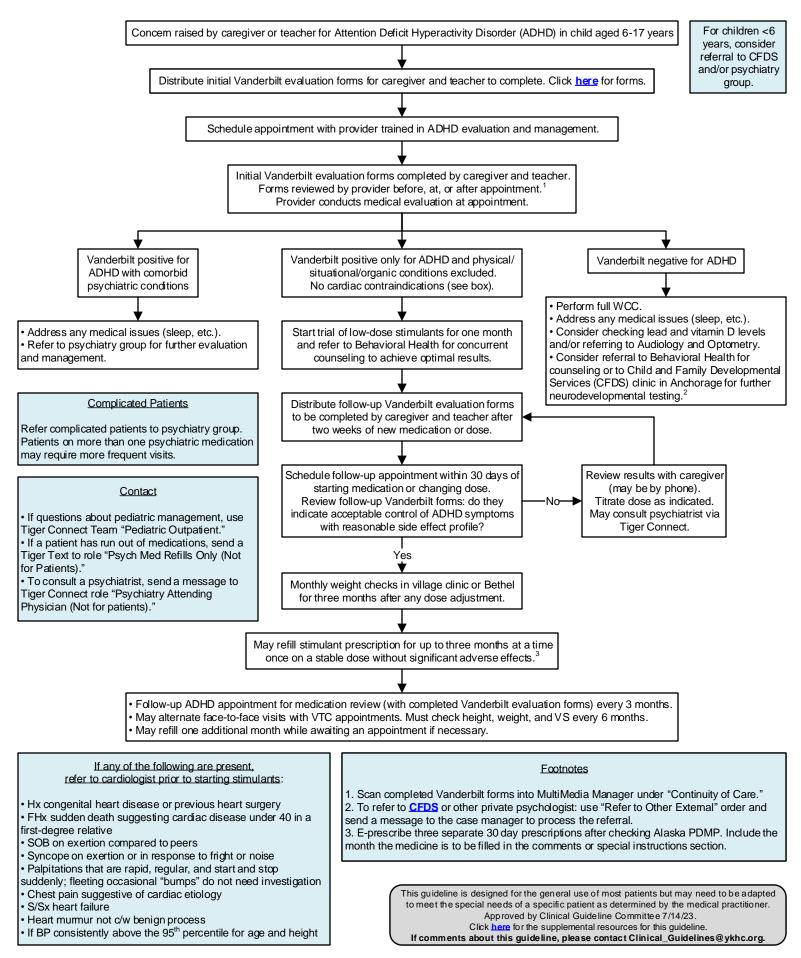
Clinical Guideline

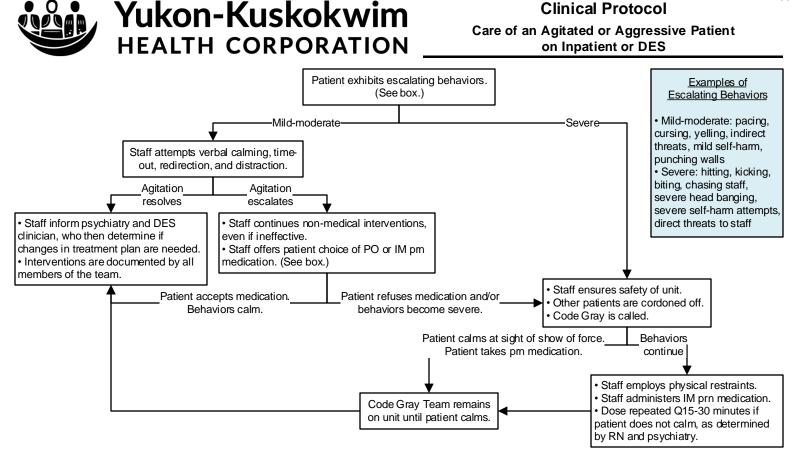
Alcohol Hangover/Withdrawal





Attention Deficit Hyperactivity Disorder (6-17 Years)





Code Gray

Return to Table of Contents.

Code Gray team is activated by pressing button on panel located at the nursing station. This will activate an overhead page on the hospital PA system.
Code Gray team will include all available security personnel, behavioral health clinician, charge nurse (or designee), and if possible another nurse. Medical provider will attend if able. Goal is a minimum of six team members at all Code Gray events.
Charge nurse will determine when patient is calm enough for Code Gray staff to leave unit.

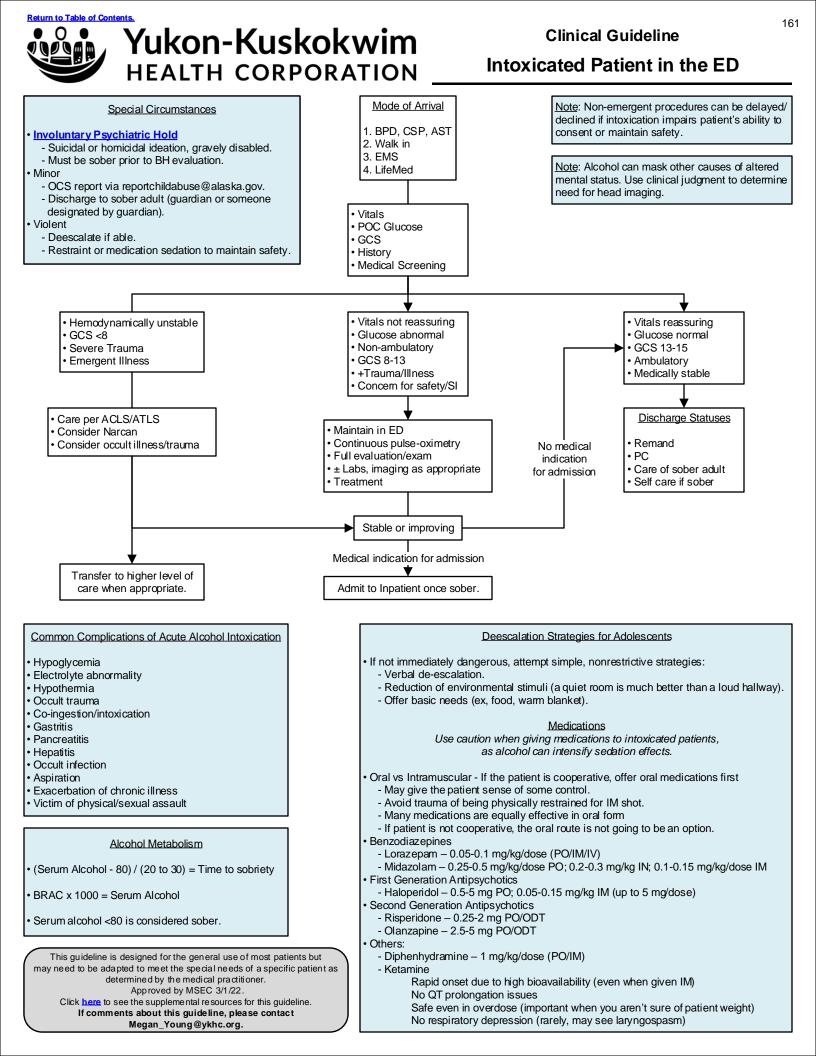
• BH clinician and bedside nurse will document incident in detail, including all interventions attempted, if meds were given, patient response and behaviors, actions if restraint and/or seclusion were applied, and timing of events.

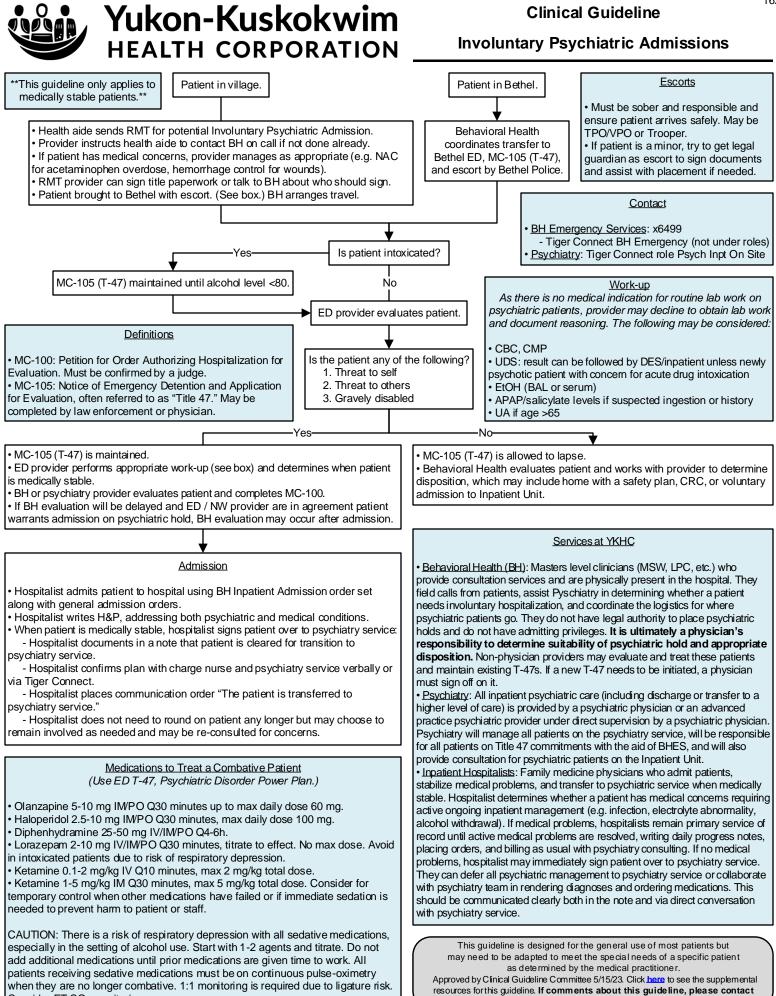
Medications to Treat a Combative Patient (Use "MED Behavioral Health IP Admission" Power Plan.)

Olanzapine 5-10 mg IM/PO Q10-30 minutes *pm* up to max 24 hour dose 60 mg.
Haloperidol 2.5-10 mg IM/PO Q10-30 minutes *pm* up to max 24 hour dose 100 mg.
If multiple classes and/or high doses of medications are used, consider monitoring of vital signs and/or end tidal CO₂ per provider discretion.

• In 24 hours, if a patient receives >30 mg of haloperidol OR >30 mg of olanzapine OR if doses of both add up to >30 mg, notify hospitalist and perform EKG when patient is stable enough to tolerate it.

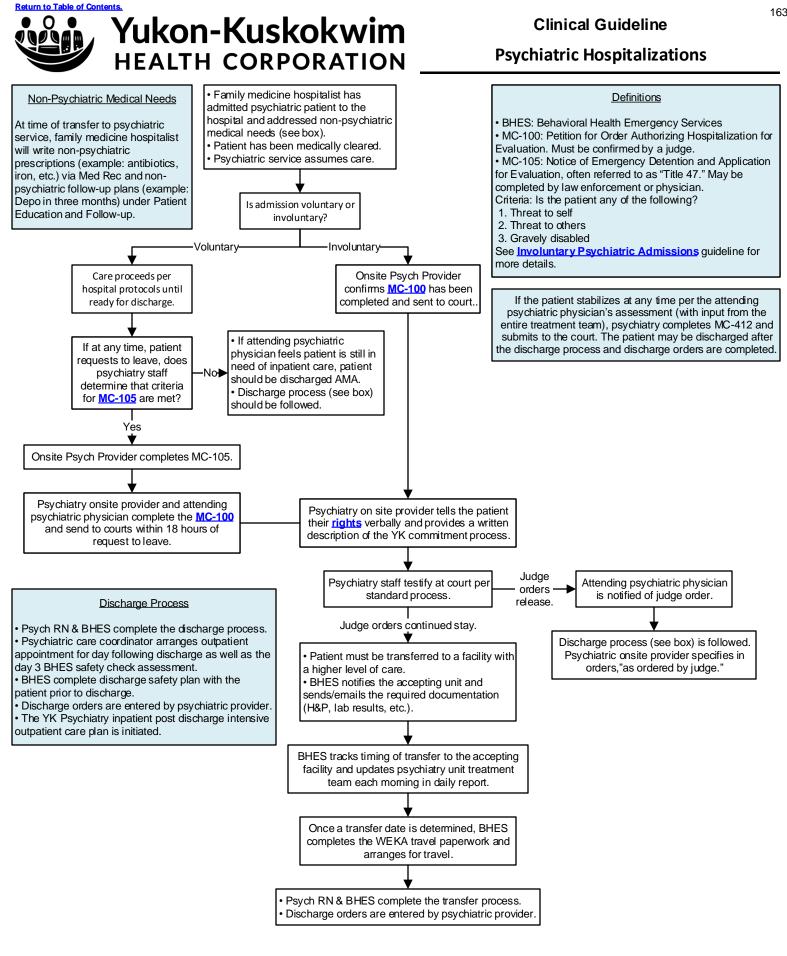
This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committe e 7/14/23. Click here to see the supplemental resources for this guideline. If comments about this guideline, please contact Thomas_Peters on @ykhc.org.





Return to Table of Contents

Consider ET CO₂ monitoring.



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Clinical Resource Checklist for Complex Pediatric Patients Returning to YKHC Region

Has YKHC pediatric group been briefed and asked for feedback on concerns or issues?	□ N/A
Prior to patient returning, has care conference been scheduled with 1-2 pediatricians to represent group/consensus recommendations? Other key participants include: case managers, SRC providers, health aides, and family members.	□ N/A
Where will primary care occur – village, SRC, Bethel, or Anchorage?	□ N/A
□ Does home have electricity, running water, and a refrigerator?	□ N/A
□ Is there a back-up plan in place if electricity goes down?	□ N/A
□ Have family/caregivers received CPR training?	□ N/A
Does the family have needed emergency equipment? Ex: ambu bag (if no CHA available), suction, pulse-oximeter, oxygen, glucometer, etc. Have they received training on how to use this equipment?	□ N/A
Does the family have needed supplies: medications, beds, commodes, syringes, dressings, wheelchair, lotions, etc.?	□ N/A
If the patient is at risk for seizures, has the family received Diastat or intranasal midazolam and received the appropriate training?	□ N/A
□ If the patient has a G-tube, are the caregivers comfortable replacing it? Do they have emergency supplies, including an extra G- tube and Foley catheters in the same French size and smaller sizes?	□ N/A
If the patient has a port, are the caregivers comfortable accessing it? Have they received the appropriate training? Do they have all the supplies needed to access it?	□ N/A
□ Has an Informed Consent to Return to Village been customized for this patient and approved by Risk Management (Linda Weisweaver and Chris Beltzer as of 11/2022)? [See Peds Folder → Informed Consent to Return to Village for template.]	□ N/A
Have the caregivers completed the Informed Consent to Return to Village?	□ N/A
If patient is returning to the village against medical advice, have Risk Management, Clinical Director, and appropriate administrators been made aware?	□ N/A
□ If the patient is DNR/DNI/Comfort Care, have the Expected Home Death Forms been completed? Has the POLST Form been completed? Does family have enough medications needed for comfort care?	□ N/A
□ Have all current and anticipated prescriptions with refills been ordered on the YKHC RAVEN Medication List?	□ N/A
□ Is there a prescription for electrolyte replacement solution (ex: Pedialyte)?	□ N/A
□ Has the YKHC RAVEN Problem List been updated with care plans, follow-up needs, therapeutic parameters, etc.?	□ N/A
□ Has a clinic appointment been scheduled to establish care at YKHC?	□ N/A
□ Have the health aides been notified of the complex needs of this patient?	□ N/A
□ Have the nearest SRC providers been notified of the complex needs of this patient?	□ N/A
□ After the care conference: has a detailed note been placed in the chart summarizing the care conference? Has this note been sent by email to the pediatric group, case managers, and SRC providers?	□ N/A
□ Has family referral to YKHC BH been offered?	□ N/A
□ Have VTC appointments been set up for patient and family?	□ N/A

Resource

Return to Table of Contents.

Yukon-Kuskokwim HEALTH CORPORATION

DME Documentation Requirements

Notes

Case Management will complete a

Wheelchairs are expected to last five

years. If a new one is needed sooner,

Physical Therapy typically stocks

standard manual wheelchairs only.

• Other size wheelchairs (hemi, lightweight, heavy duty, etc.) must be

ordered from Prodigy by the case

Custom wheelchairs (e.g. electric)

require referral to National Seating and

Transport wheelchairs are not covered

by Medicaid or provided by Prodigy, but

can be shopped for online.

Mobility Clinic (at Providence). Talk to

wheelchair packet that includes measurements of the patient and the

household doors.

managers.

case manager.

Medicaid will not pay for it.

Wheelchairs

Standard Manual Wheelchair Criteria

1. The patient cannot use a cane or a walker for mobility and why (include diagnosis).

2. The patient requires a wheelchair to complete mobility-related ADLS (: toileting, feeding, dressing, grooming, bathing, etc.).

3. The patient is able/willing to propel the wheelchair.

OR

A caregiver is present and can propel the wheelchair.

4. The hallways and doorways in the home are adequate in width to allow a wheelchair to pass through.

- 5. Timeframe of need: lifetime or a specified amount of time.
- 6. Size wheelchair needed: 18 inches is standard; 16 inches is narrow; 20 inches is small bariatric.
- 7. Height and weight within the last 30 days.

Hemi Wheelchair

Standard Manual Wheelchair Criteria met AND one of the following:

- a. Lower seat height (17" to 18") required due to short stature.
- b. Patient needs to place feet on the ground for propulsion.

Lightweight Wheelchair

Standard Manual wheelchair criteria met AND both of the following:

- a. Unable to self-propel in standard chair.
- b. Able to self-propel in lightweight chair.

Heavy Duty Wheelchair

Standard manual wheelchair criteria met AND one of the following:

- a. Weight over 250 lb,
- b. Severe spasticity.

Extra Heavy Duty Wheelchair

Standard wheelchair criteria met AND weight over 300 lbs.

Standard Commode Requirements

Patient is physically incapable of utilizing toilet facilities. This would occur in the following situations:

 The patient is confined to a single room (confinement to a single room means the patient is bedridden, cannot walk with a cane or walker, or cannot use or be wheeled in a wheelchair to access the bathroom).

Commode

- b. The patient is confined to one level of the home environment and there is no toilet on that level.
- c. The patient is confined to the home and there are no toilet facilities in the home.
- 2. Height and Weight within 30 days of prescription.

Extra Wide/Heavy Duty Commode Chair

Patient meets standard commode requirements AND weight >300 lbs documented in medical record within 30 days.

Drop-Arm Commode

Patient meets standard commode requirements AND detachable arms feature is necessary to facilitate transferring the patient OR the patient has a body configuration that requires extra width.

Semi Electric Hospital Bed

One or more of the following criteria

a. Medical condition which requires positioning of the body in ways not feasible with an ordinary bed.

- b. Requires positioning of the body in order to alleviate pain.
- c. Requires head of bed to be elevated more than 30 degrees most of the time due to congestive heart failure, chronic pulmonary disease, or problems with aspiration.

d. Requires traction equipment, which can only be attached to a hospital bed.

e. Requires frequent changes in body position and/or has an immediate need for a change in body positions (i.e. a patient has large or multiple pressure ulcers on the trunk or pelvis and needs to be repositioned frequently and is unable to do so without assistance; or the patient has limited strength to move or shift their body).

A commode is NOT covered by Medicare for the following conditions/situations: • Urinary urgency or incontinence. • Slow gait and cannot get to the bathroom in a timely manner. • Patient is able to walk with or without an assistive device, are able to use a

wheelchair in the home, and are able to get to the bathroom.

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The following must be included in a provider note for a patient to receive incontinence supplies:

- 1. Patient is incontinent of feces and urine.
- 2. All incontinence care is provided by a care taker.
- 3. 6-8 briefs daily are needed.
- 4. All attempts at training patient to toilet independently have failed.
- 5. Length of time needed (may be lifetime).
- 6. Prognosis of independent bladder control: Poor/not likely.

<u>Note</u>

If patient is expected to need more than six briefs per day, a separate letter of medical necessity must be drafted by the case managers.

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Documentation Requirements for Pediatric Nutritional Supplements

Documentation Requirements for Pediatric Nutritional Supplements

The following resource is from the Medicaid Certificate of Medical Necessity.

Medicaid, Medicare, and other insurers have specific requirements for medical provider documentation. If those requirements are not met, nutritional supplements will not be covered.

Use the autotext "..nutritional supplement documention."

Documentation Requirements for the Prescription of Nutritional Supplements:

The following objective documentation is required to show the medical necessity of the nutritional supplement being prescribed.

This information needs to appear in the body of the medical provider's chart notes:

- Diagnosis of the patient including ICD-10 code.
- Product being prescribed. (Example: Pediasure)
- Why product is medically necessary.
- Goal or target weight for the patient.
- Total daily caloric requirement.
- Total daily calories obtained from ingestion (oral) foods.
- Total daily calories to be obtained from nutritional supplement.

Documentation Example

Pediasure is medically necessary for this child.

Diagnosis: dysphagia (R13.10), G-tube dependence

Product: Pediasure

Medical Necessity: Patient has severe dysphagia. He is undergoing oral feeding therapy but is unable to take any degree of sufficient calories by mouth and is thus entirely dependent on a G-tube for nutrition. Pediasure will give him the nutrition he needs to survive.

Goal/Target Weight: currently at target weight of XX kg (XXth percentile for age when corrected for prematurity). Target weight along this trajectory in one year will be XX kg.

Total Daily Caloric Requirement: XX calories/day (usually estimate 100-120 cal/kg/day - adjust based on growth)

Total Calories Obtained from Oral Intake: 0 calories/day

Total Daily Calories to be Obtained from Nutritional Supplement: XX calories/day

For resources and information about nutritional supplements in former premature babies, please see the <u>ANMC Guideline on</u> <u>Preterm Infant Nutrition through 2 Years Old</u>.

This resource is designed for the general use of most patients but may need to be a dapted to meet the special needs of a specific patient as determined by the medical practitioner. Approved by Clinical Guideline Committee 11/27/22. If comments about this resource, please contact Tamara_Hill@ykhc.org.