

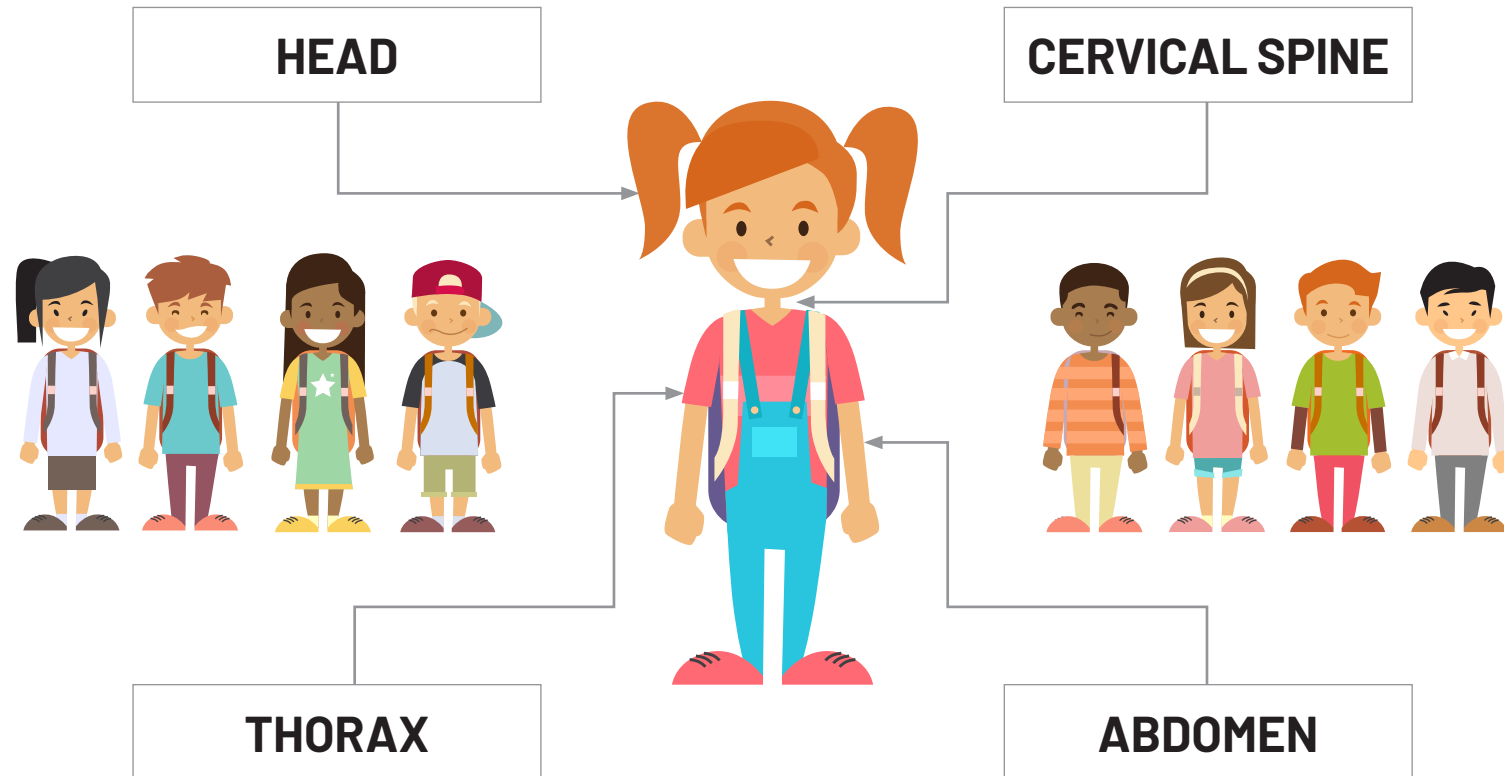
# BEST PRACTICES IN PEDIATRIC TRAUMA IMAGING



**EIIC**  
EMSC Innovation and  
Improvement Center

The EMSC Innovation and Improvement Center is supported by the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services (HHS) as part of an award (U07MC37471) totaling \$2.5M with 0 percent financed with nongovernmental sources. The contents are those of the author(s) and do not necessarily represent the official views of, nor an endorsement by, HRSA, HHS or the U.S. government. For more information, visit [HRSA.gov](https://www.hrsa.gov).

# Imaging in Stable Pediatric Trauma



## Identification of patients requiring transfer to Pediatric Trauma Center early

- For patients who have an identified indication for transfer, do not delay transfer to Pediatric Trauma Center (PTC) while awaiting CT
- Discuss with PTC if CT scans should be obtained while waiting for transport
- CT of thorax, abdomen/pelvis must be with IV contrast
- Utilize pediatric-specific dosing for all imaging studies

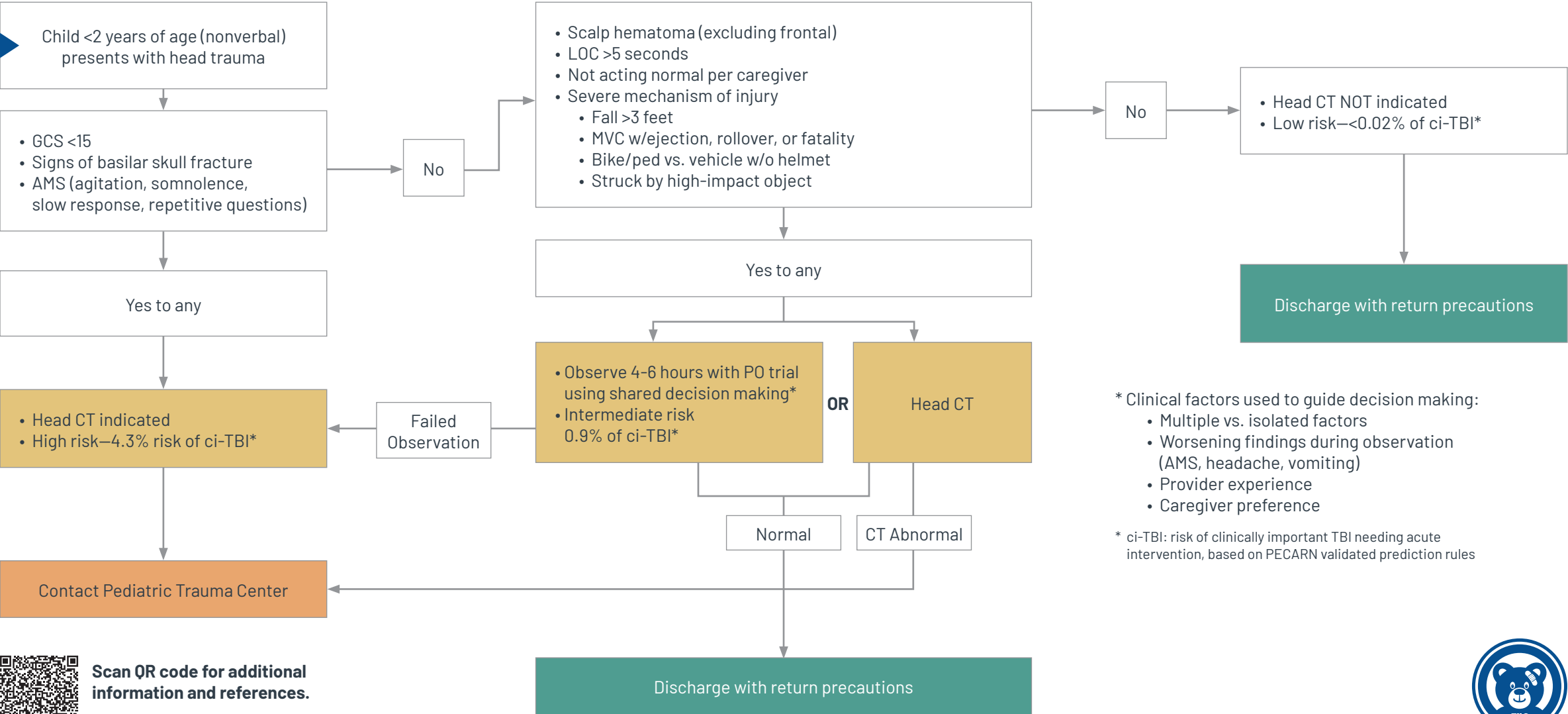
**Routine whole body CT (WBCT) should NOT be routinely undertaken in pediatric trauma patients.**



# Pediatric Head Trauma Screening

for children under two years old (nonverbal) with blunt head trauma

<2 Years



Scan QR code for additional information and references.

Algorithm is not intended for suspected child physical abuse.

\* Clinical factors used to guide decision making:

- Multiple vs. isolated factors
- Worsening findings during observation (AMS, headache, vomiting)
- Provider experience
- Caregiver preference

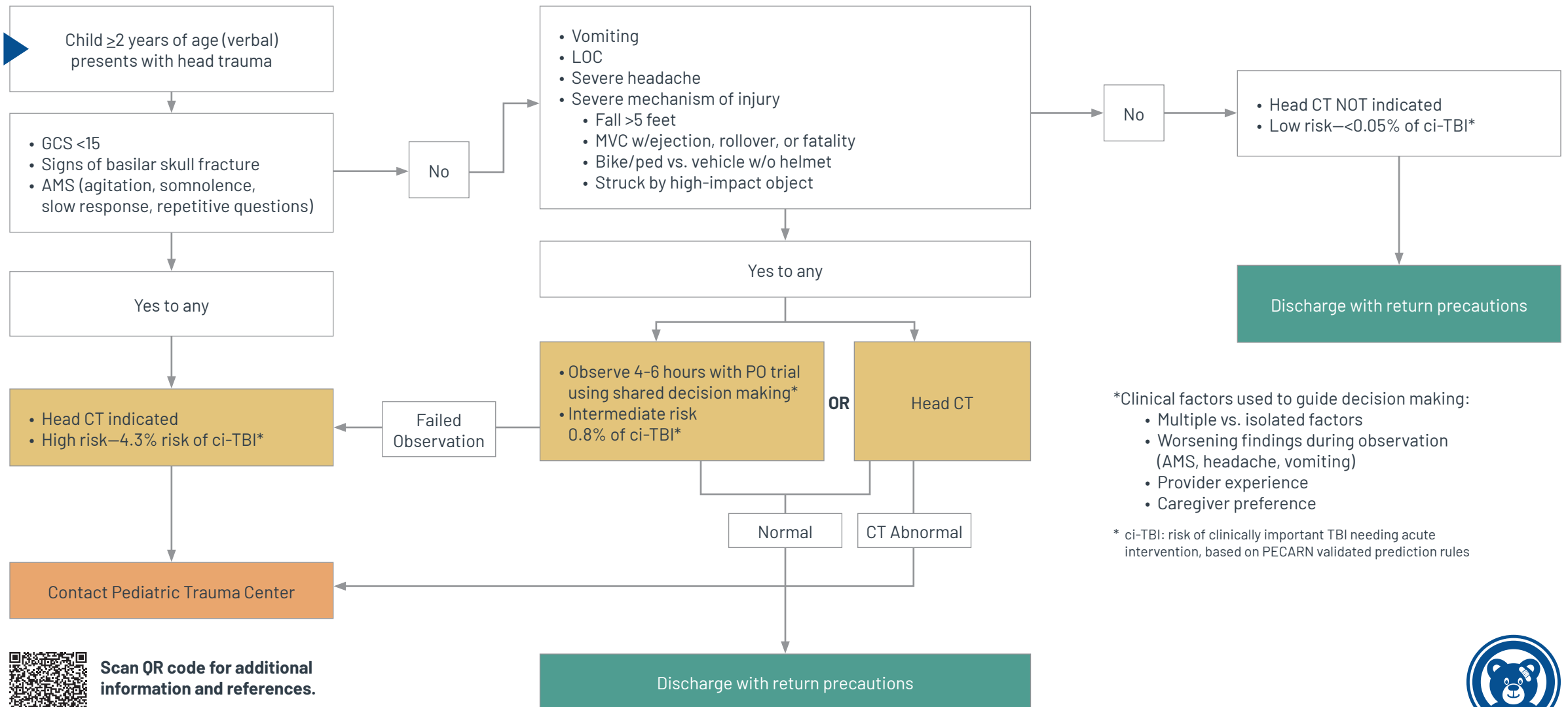
\* ci-TBI: risk of clinically important TBI needing acute intervention, based on PECARN validated prediction rules



# Pediatric Head Trauma Screening

for children two years and older (verbal) with blunt head trauma

≥2 Years



\*Clinical factors used to guide decision making:

- Multiple vs. isolated factors
- Worsening findings during observation (AMS, headache, vomiting)
- Provider experience
- Caregiver preference

\* ci-TBI: risk of clinically important TBI needing acute intervention, based on PECARN validated prediction rules

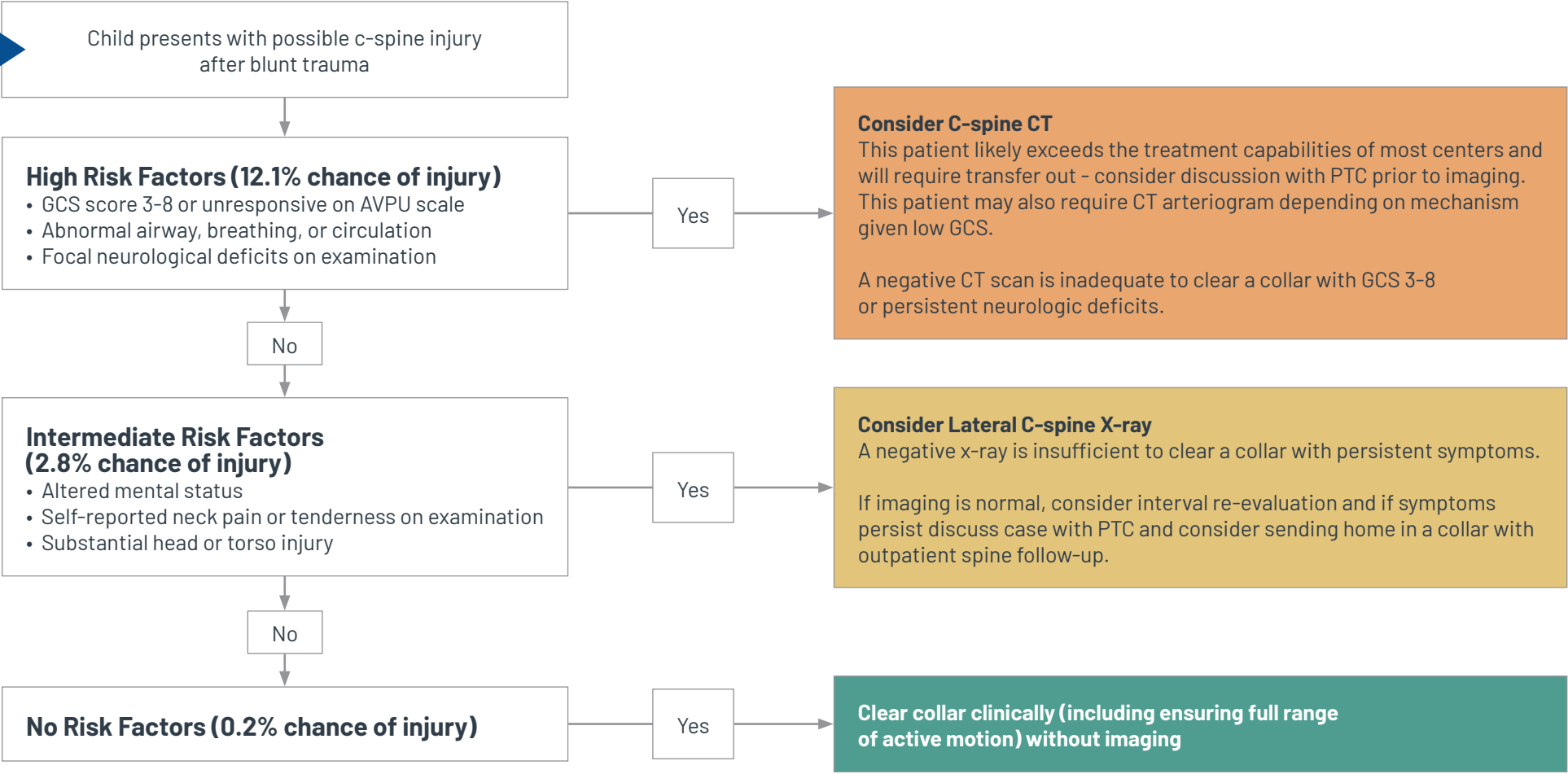


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# Pediatric Cervical Spine Injury Screening



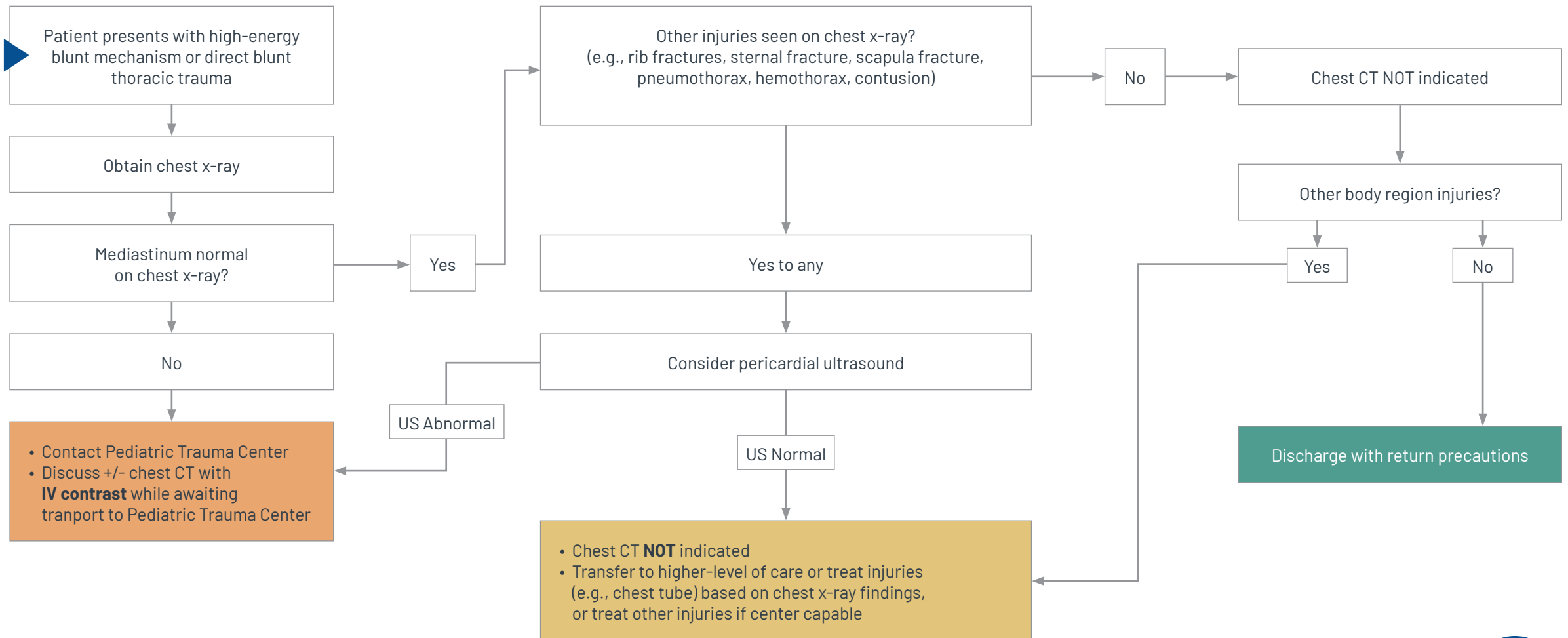
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# Pediatric Blunt Thoracic Trauma Screening

for patients with high-energy blunt mechanism or direct blunt abdominal trauma



Scan QR code for additional information and references.

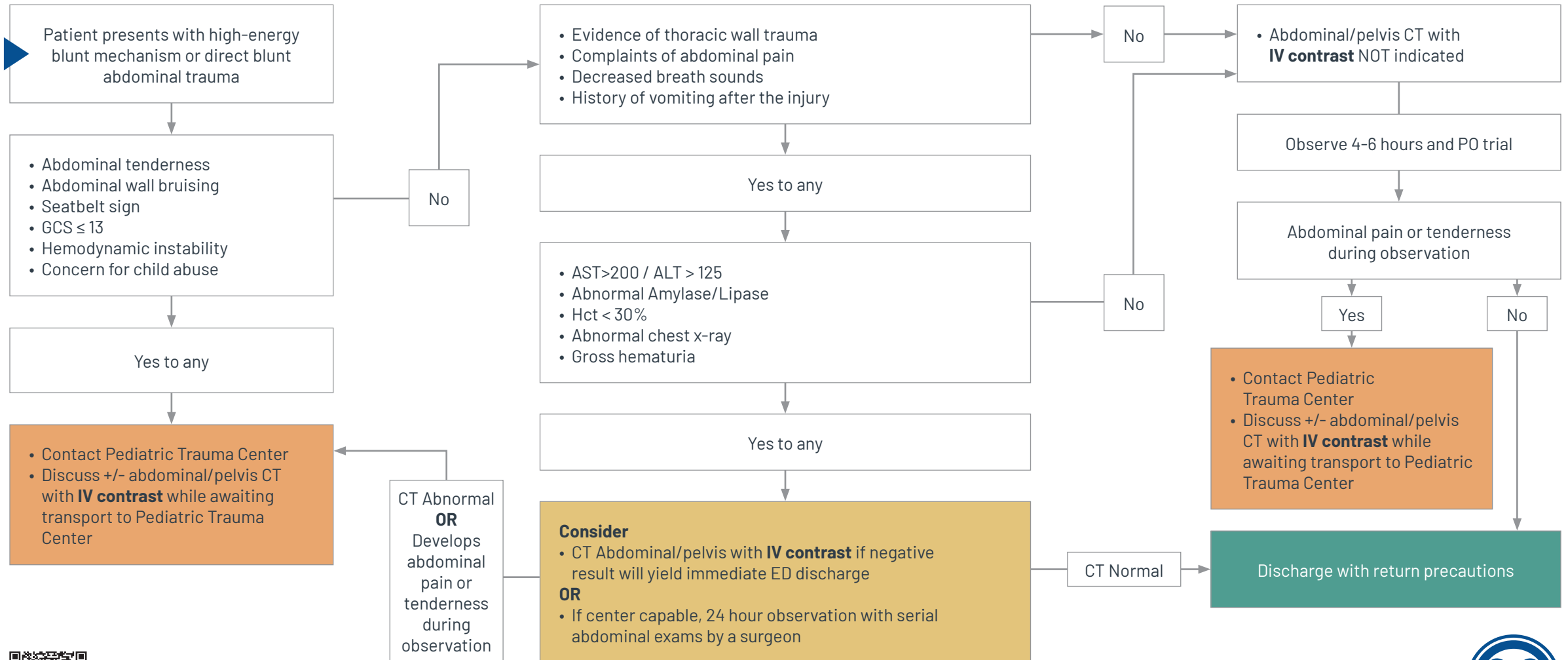
Algorithm is not intended for suspected child physical abuse.





# Pediatric Blunt Abdominal Trauma Screening

for patients with high-energy blunt mechanism or direct blunt abdominal trauma



Scan QR code for additional information and references.

Algorithm is not intended for suspected child physical abuse.

• FAST is unreliable in hemodynamically normal children and should not be used to rule out intra-abdominal injury or lead to an abdominal/pelvis CT with IV contrast in an asymptomatic child.

