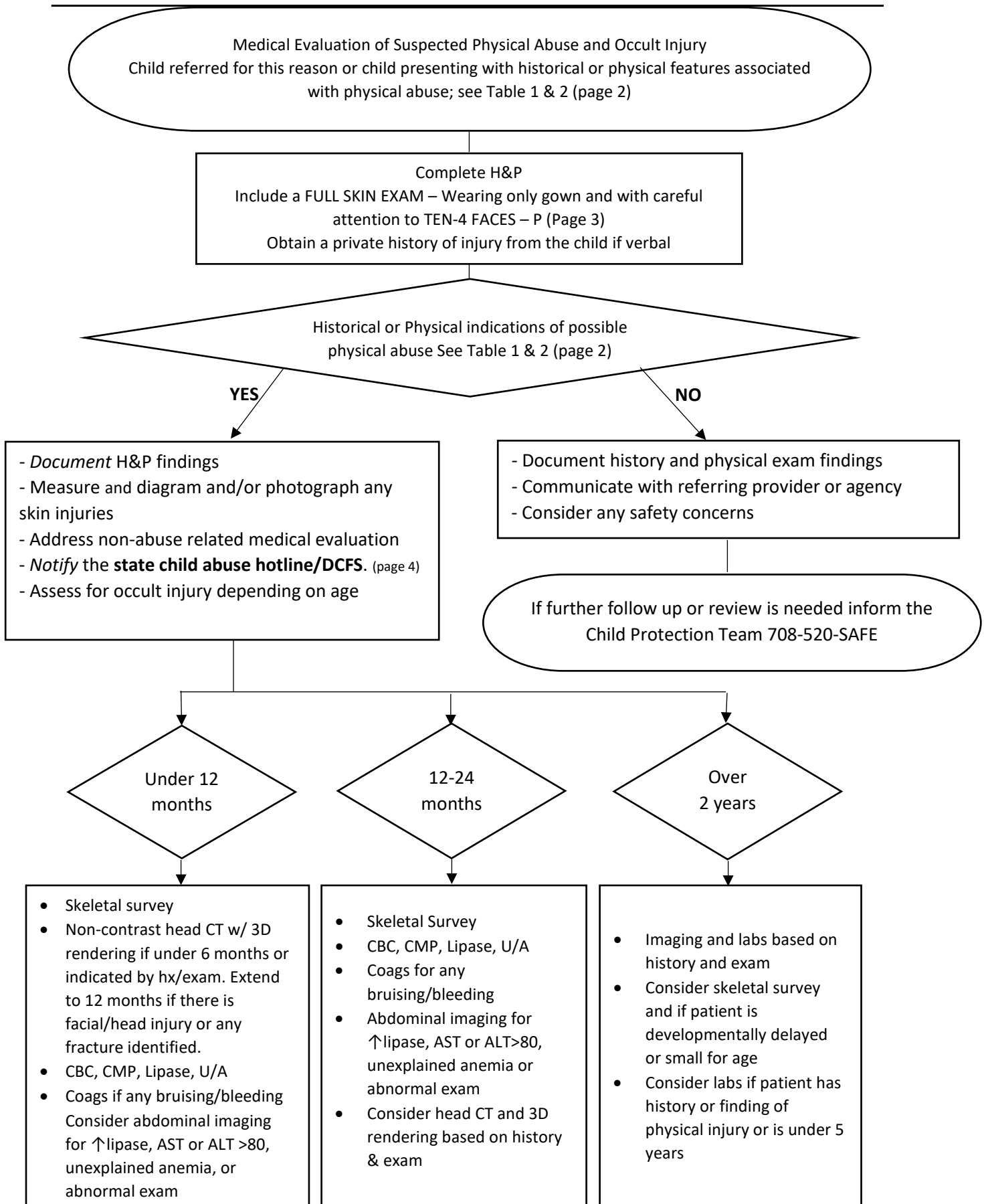


## Pediatric Suspected Physical Abuse



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## Pediatric Suspected Physical Abuse

**TABLE 1: INJURIES ASSOCIATED WITH CHILD PHYSICAL ABUSE**

Skin/Soft tissue injury	Any bruising, laceration, abrasion under the age of 6 months or in a non-ambulatory child TEN-4 bruising: Bruising of the torso, neck, ears in a child under 4 years and no confirmed explanatory accidental trauma (See Page 3) Injury on protected areas of the body Patterned injuries (single or repeated in the shape of an object, loop, hand or bite)
Head/face/eye	-Retinal Hemorrhages -Oral injury such as torn frenula in non-ambulatory child -Unexplained subconjunctival hemorrhage outside of the newborn period -Unexplained scalp injury or skull fracture -Intracranial hemorrhage in the absence of known accidental major trauma
Skeletal Injury	-Any extremity fracture under the age of 12 months or without a history to explain the injury -Unexplained skull fractures -Injuries with high specificity for abuse <ul style="list-style-type: none"> <li>• <i>Metaphyseal</i></li> <li>• <i>Rib</i></li> <li>• <i>Scapular</i></li> <li>• <i>Sternum</i></li> </ul> -Injuries with a moderate specificity for abuse <ul style="list-style-type: none"> <li>• <i>Multiple fractures</i></li> <li>• <i>Fractures of different ages</i></li> <li>• <i>Epiphyseal separations</i></li> <li>• <i>Vertebral body fractures/subluxation</i></li> <li>• <i>Digital fractures</i></li> </ul>
Burns	Multiple On protected areas of the body Immersion (buttocks, extremities, circumferential, uniform depth and clear lines of demarcation) Patterned contact burns

**TABLE 2: HISTORICAL RED FLAGS INDICATING POSSIBLE CHILD PHYSICAL ABUSE**

- Changing, absent or vague history of injury
- History not consistent with injury pattern, age or severity
- History not consistent with child's developmental ability
- Delay in seeking care
- Major injury attributed to another child
- Previous inflicted injury
- Injury in the setting of interpersonal violence
- Sibling to a child with suspected abusive injuries

**TABLE 3: EXCEPTIONS**

In the following scenarios and when there are no other indicators of maltreatment, one can consider forgoing an occult injury evaluation:

- Simple skull fracture after a well described fall in a child over 6-12 months of age
- Toddler fracture (distal tib/fib fracture) associated with fall in a newly ambulating child
- Distal forearm torus/buckle fracture after a fall on an outstretched hand

**TABLE 4: ADDITIONAL EVALUATION TO CONSIDER**

- If isolated bruising/bleeding and prior to transfusion: Coags, CBC, Factor 8/9, Von Willebrand Factor Ag and Activity (DIC panel depending on clinical presentation)
- If osteopenia or risks for poor bone health: Alk phos, Vit D250H, PTH, Ca, Phos, Mg
- In cases of suspected abusive head trauma with intracranial hemorrhage, recommend prompt eye exam and consideration of MRI brain and spine, the timing of which should be based on clinical need and discussion with neurosurgery.
- For children under 2 with an injury likely to be from abuse, a skeletal survey should be repeated in 2 weeks.

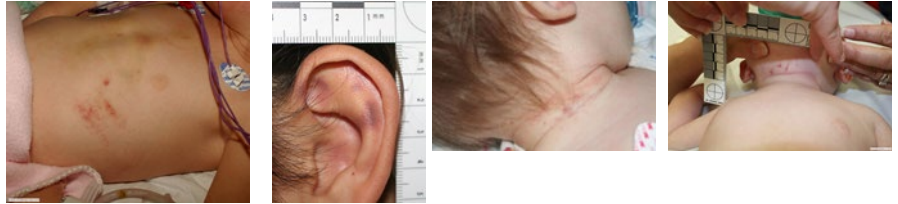
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### TEN-4 FACES-P

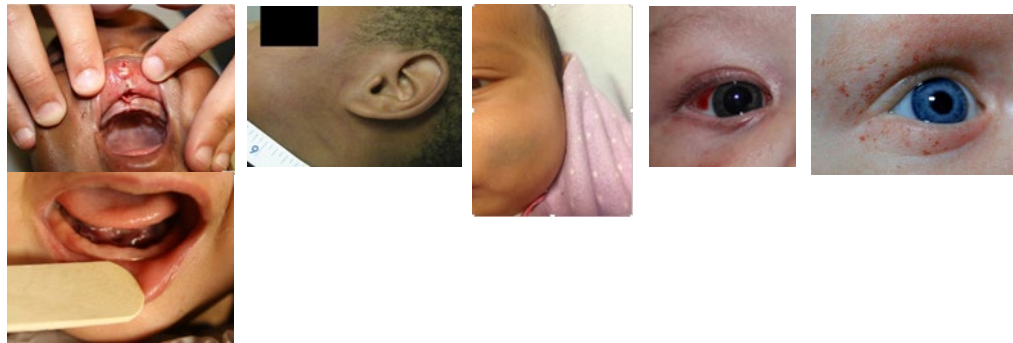
Bruising characteristics predictive of abuse:

- Bruising on the
  - Torso
  - Ears
  - Neck
  - In a child under 4 years
- Bruising under 4.99 months of age



Additional observations and areas to inspect:

- Injury to the
  - Frenula
  - Angle of the jaw
  - Cheeks (fleshy)
  - Eyelid
  - Subconjunctiva
- Skin injury with a Pattern (loop, bite, object, hand, cluster)



- Pierce MC, et al. Bruising characteristics discriminating physical child abuse from accidental trauma. Pediatrics. 2010;125:67-74.
- Pierce MC, et al. Validation of a clinical decision rule to predict abuse in young children based on bruising characteristics. JAMA Netw Open, 2021;4(4)
- Photos from AAP Visual Diagnosis of Child Abuse, 4<sup>th</sup> edition, 2016.

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## Pediatric Suspected Physical Abuse

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### Useful Resources and Telephone Numbers:

Hotline numbers:

Illinois 1-800-25-ABUSE

Indiana 1-800-800-5556

Wisconsin <https://dcf.wisconsin.gov/reportabuse> (# based on county)

Members of the clinical team should be made aware of the DCFS report and the following should be documented in EMR:

- The concern or information reported to the hotline
- Intake ID# and name of person receiving the information at the DCFS hotline
- Any other information provided by the hotline (taken for investigation, as information only; or if taken as action needed.)
- CANTS 4 or 5 (for Illinois) should be submitted within 48 hours of the referral and may be emailed to: ***DCFS.mandatedreporterform@illinois.gov***
  - CANTS 5 for mandated reporters to complete:  
<https://dcfs.illinois.gov/content/dam/soi/en/web/dcfs/documents/about-us/policy-rules-and-forms/documents/cants/cants-5.pdf>
- CANTS 4 for medical professionals to complete:
  - <https://dcfs.illinois.gov/content/dam/soi/en/web/dcfs/documents/about-us/policy-rules-and-forms/documents/cants/cants4.pdf>

It is usually beneficial to notify the parent/guardian that a DCFS will be made; appropriate exceptions exist and should be considered on a case-by-case basis.

Social Work and/or the Child Protection Team (CPT) should be notified for ACH inpatients being referred to DCFS.

Notification of the CPT is recommended for the following Advocate Children’s Hospital **inpatients**:

- Serious head injury under the age of 2 (skull fracture, ICH)
- Fractures under the age of 2
- Non-mobile children with bruises, oral injuries
- Any child with unexplained, excessive or patterned injury or with injury that has been reported to DCFS
- Any child with a new disclosure of sexual abuse or any prepubertal child with an STI
- Any other concern for abuse or neglect including suspected human trafficking, medical neglect, medical child abuse, and some instances of FTT or BRUE

The ACH Child Protection Team is available 6a – 6p and on most weekends to discuss cases.

Availability can be found in PerfectServe by searching “Child protection” in the directory.

Non-urgent voice messages can be left for a member of the team at 708-520-SAFE.

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