# Minnesota Child Abuse Network COMMON EVALUATION FOR PHYSICAL ABUSE

- All Injuries in Infants are Concerning:
- Oral Injury
- •Bruise(s), Burns, Fracture(s)
- •Head and/or Abdominal Injury
- •Head CT (recommended in all)
- •Skeletal Survey, Labs Abdominal Injury
- •Urine Drug Screen
- •May Expect? Eye Exam

0 - 6 months 6 - 12 months

- •Any Injuries in Non-Ambulatory Infants
- •"Red Flag" Injury, Pattern, or Location
- Unexplained Injury
- Head and/or Abdominal Injury
- •Skeletal Survey, Labs Abdominal Injury
- •Urine Drug Screen
- •May Expect? Neuro-Imaging, Eye Exam

- •"Red Flag" Injury, Pattern, or Location
- Unexplained Injury
- Head and/or Abdominal Injury
- •Labs Abdominal Injury, Urine Drug Screen
- May Expect? Neuro-Imaging, Eye Exam, Skeletal Survey

2 - 5 years 1-2 years

- •"Red Flag" Injury, Pattern, or Location
- Unexplained Injury
- •Head and/or Abdominal Injury
- •Skeletal Survey, Labs Abdominal Injury
- •Urine Drug Screen
- •May Expect? Neuro-Imaging, Eye Exam

## 5 years and older

- Labs Abdominal Injury, Urine Drug Screen
- May Expect? Neuro-Imaging
- Mental Health Assessment

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# \* Additional Explanation

- Skeletal Survey series of x-rays of the skeleton used to identify fractures. Indicated in children under 2-3 years. Expect a repeat in 2 weeks, called a Follow-up Skeletal Survey, if skeletal survey positive and/or injuries are concerning.
- Labs Abdominal Injury typically liver enzymes & lipase to screen for internal injury
- Neuro-Imaging (head MRI or CT) indicated in Skull Fracture(s), Bruising Face/Head, Altered Mental Status
- Eye Exam expect if Positive Neuro-Imaging and/or Altered Mental Status
- Contact a Child Abuse Physician for guidance on evaluation and management

# Assessment for Physical Abuse: Injury Patterns, "Red Flags" & Child Abuse Programs

When the following injuries are present,

# ADDITIONAL MEDICAL EVALUATION IS ALWAYS INDICATED:

Rib Fractures
Metaphyseal Fractures
Longbone Fracture (non-ambulatory)
Bruising (infants less than 6 months of age)
Oral or Pharyngeal Injury (non-ambulatory)
Abdominal Injury (non-MVC under 5 yrs)
Head Injury (unwitnessed, unexplained)

Patterned Skin Injuries & Unusual Locations of Injury

#### **TEN-4 FACES**

#### **TEN**

Torso (trunk) Ear Neck

#### **FACES**

Frenulum (mouth)
Auricular area (ear)
Cheek
Eyelids (bruising)
Scleral Hemorrhage (eye)

**4:** Bruises in the TEN distribution in a child under **4** years of age, or **ANY** bruise in an infant less than 4-6 months of age

### Contact a Child Abuse Physician:

Univ. of Minnesota Masonic Children's Hospital Minneapolis MN Center for Safe & Healthy Children (612) 273-SAFE (7233) or (612) 365-1000

Hennepin County Medical Center Minneapolis MN Center for Safe & Healthy Children (800) 424-4262 Hennepin Connect

Children's Hospitals and Clinics of Minnesota Minneapolis and St. Paul MN Midwest Children's Resource Center (MCRC) (651) 220-6750

Mayo Clinic Rochester MN Mayo Child and Family Advocacy Program (507) 266-0443 daytime or (507) 284-2511

Essentia Health Duluth MN (218) 786-8364

Gundersen Health System La Crosse WI 1-800-362-9567

Sanford Health Sioux Falls SD Child's Voice Child Advocacy Center (605) 333-2226

Sanford Health Fargo ND Child & Adolescent Maltreatment Service (CAMS) (701) 234-2000 or (877) 647-1225

#### **MOST CHILD FATALITIES:**

- i. Occur in children under 4 years of age (80%)
- ii. Occur at the instigation of a caregiver (80%)
  - iv. Involve head (leading cause) and/or abdominal (second cause) Injury

#### Signs of Head Injury\*:

- i. Bulging fontanelle (soft spot) in an infant
- ii. Rapidly increasing head circumference
  - iii. Bruising/Swelling to Face/Head
    - iv. Vomiting or fussiness
- v. Unresponsive, "altered mental status"
  - vi. Apnea or change in breathing

\*Simple household falls rarely result in serious injury.

# What Is An Unexplained Injury:

- i. Injury that is not consistent w/ child's age, developmental abilities, or injury type
- ii. History that is vague or changes w/ time, repetition, or caregiver
  - iii. Delay in seeking medical care

#### **Signs of Abdominal Injury\*:**

- i. Abdominal pain or distention
  - ii. Abdominal bruising
    - iii. Vomiting
- iv. Lethargic, "altered mental status"
  - v. Rectal bleeding
- vi. Presents in shock, low blood pressure

\*Simple household falls rarely result in serious injury.

These recommendations are not a substitute for expert medical evaluation. It should also not take the place of human decision-making. Injuries that are suspicious for abuse require careful assessment by a physician or medical provider with expertise in child abuse.