

Syndrome Definition Development for Child Abuse and Neglect

Elizabeth Swedo, MD, MPH

Surveillance Branch

Division of Violence Prevention

Centers for Disease Control and Prevention

TODAY'S TALK

- ▶ Context for definition
- ▶ Process of query development
- ▶ Hiccups, solutions, take-aways
- ▶ Discussion

Child Abuse and Neglect





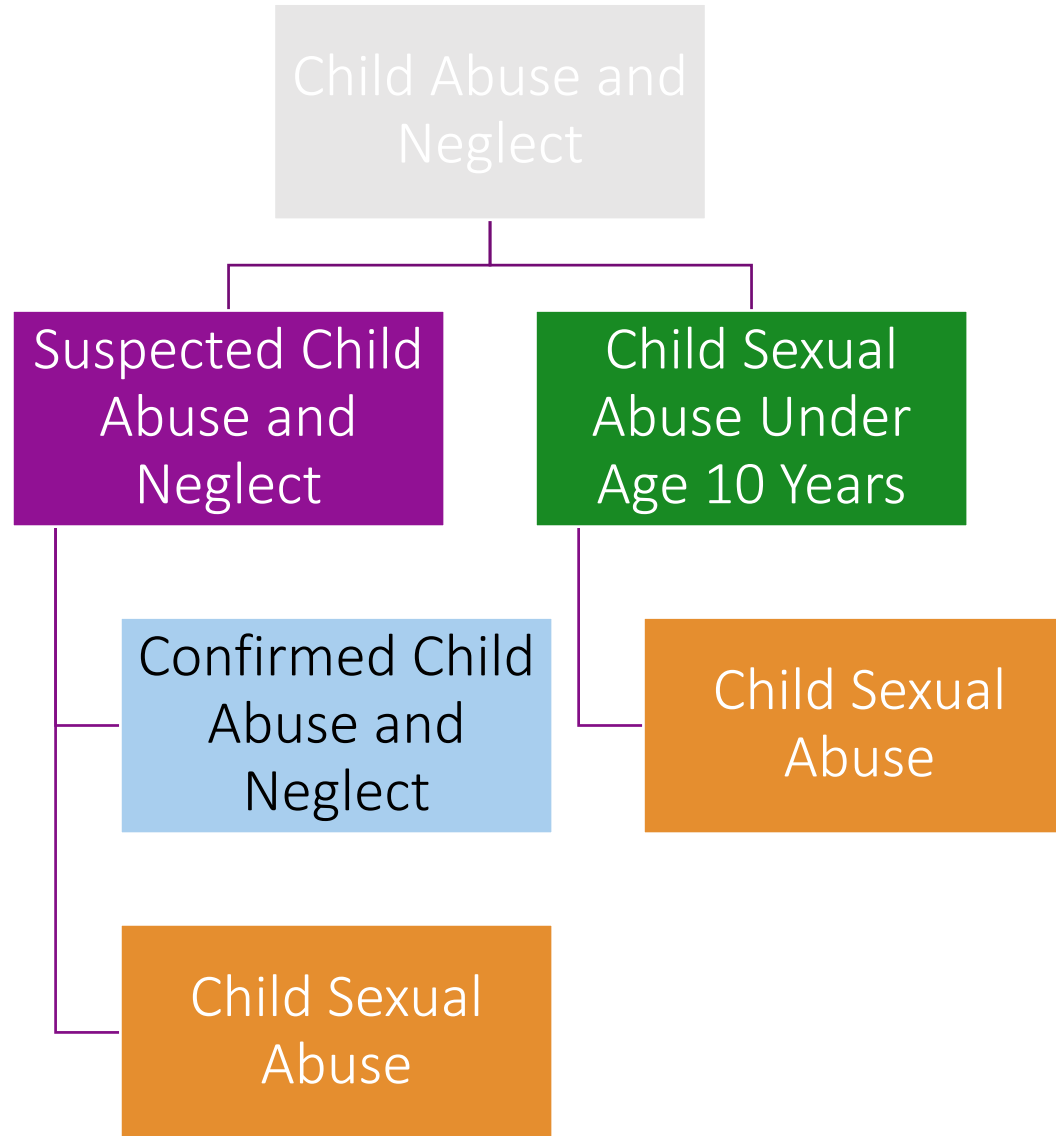
Purpose

Capture the incidence and prevalence of visits related to Child Abuse and Neglect (sCAN) in emergency department settings in the United States.

Child Abuse
and Neglect

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graph TD; A[Child Abuse and Neglect] --- B[Child Sexual Abuse]
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Child Sexual
Abuse



Process





- ⚙️ Identify relevant ICD-9, ICD-10, and SNOMED codes
- ⚙️ Identify relevant keywords and negations
 - Use ICD codes in CCQV and local level data to generate additional terms
 - Misspellings and typos
 - Acronyms and abbreviations
 - Use Nssp R Markdown tools to identify bigrams/trigrams of frequently associated words
- ⚙️ Partner with local health departments to test out and refine definition
- ⚙️ Crosswalk CAN and CSA definitions to ensure internal consistency

ICD-9-CM Codes Included in Syndrome Definition

- **995.5[0-9]** Child abuse
- **E904.0** Accident due to abandonment or neglect of infants and helpless persons
- **E967.[126789]** Perpetrator of child and adult abuse, by perpetrator
- **V71.5*** Observation following alleged rape and seduction
- **V71.81** Encounter for examination and observation following alleged child physical abuse

*accompanied by perpetrator inclusion list

ICD-10-CM Codes Included in Syndrome Definition

- **T74.[0-9][2X]XA** Confirmed, initial encounter codes for child abuse, neglect, and other maltreatment
- **T76.[0-9][2X]XA** Suspected, initial encounter codes for child abuse, neglect, and other maltreatment
- **Z04.81** Encounter for examination and observation of victim following forced sexual exploitation
- **Z04.82** Encounter for examination and observation of victim following forced labor exploitation
- **Z04.42** Encounter for exam and observation following alleged child rape
- **Z04.72** Encounter for exam and observation following alleged child physical abuse
- **Y07.[1-9]** Perpetrator of assault, maltreatment and neglect

SNOMED Codes Included in Syndrome Definition

432464008	Abuse by unrelated caregiver (event)
713834002	Victim of child sexual exploitation (finding)
777996001	Alleged being subjected to abuse (situation)
418189009	Child abuse (event)
386702006	Victim of abuse (finding)
242037000	Child abandonment (event)
162596006	Suspected victim of child abuse (situation)
397940009	Victim of child abuse (finding)
702954001	Suspected victim of child abandonment (situation)
242037000	Child abandonment (event)
95930005	Victim of neglect (finding)
397660003	Child deprivation syndrome (finding)
217635005	Accident due to neglect of newborn (event)
217634009	Accident due to abandonment of newborn (event)
217633003	Accident due to abandonment or neglect of helpless person (event)
697951004	Suspected victim of emotional abuse (situation)
12399131000119105	Suspected victim of child emotional abuse (situation)
473453008	Child victim of psychological or emotional abuse (finding)
371775004	Emotional abuse of child (event)
700254002	Suspected victim of child sexual abuse (situation)
95922009	Child sex abuse (event)
228143000	Contact sexual abuse of child (event)
697949003	Suspected victim of physical abuse (situation)
12242871000119109	Suspected victim of child physical abuse (situation)

SNOMED Codes Included in Syndrome Definition, continued

371779005	Physical child abuse (event)
397864009	Victim of child abuse (finding)
237461000119103	Child victim of physical abuse (finding)
700229002	Victim of child sexual abuse (finding)
720824009	Victim of child neglect (finding)
225824003	Victim of physical abuse (finding)
720823003	Victim of infant neglect (finding)
225826001	Victim of sexual abuse (finding)
371776003	Neglect or abandonment (event)
397660003	Child deprivation syndrome (finding)
777996001	Alleged being subjected to abuse (situation)
102458000	Shaken baby syndrome (finding)
213015009	Maltreatment syndromes (disorder)
419261006	Malnutrition due to child maltreatment (disorder)
430139008	Abuse by relative of victim (event)
225823009	Victim of exploitation
361217003	Intrafamilial sexual abuse (event)
713821003	Victim of sexual assault by member of household (finding)
41358001	Child concubinage
23776007	Incestuous child concubinage
70167006	Non-incestuous child concubinage
51347003	Incest
213017001	Sexual abuse (event)
242046006	Sexual abuse of disabled person
361217003	Intrafamilial sexual abuse (event)

Keywords Included in Syndrome Definition

- Keywords (and common spellings and misspellings) to include:
 - SANE*
 - NAT
 - Neglect
 - Abuse
 - CAART
 - Abandon
 - Forensic
 - Molest
 - FNE*
 - Rape*
 - Assault*
 - SAFE exam*
 - SART*
 - Force *and* sex*
 - Suspected sexual*
 - Alleged sexual*

*Only included if accompanied by perpetrator inclusion list or perpetrator ICD code

Perpetrator Inclusion List

- Keywords and ICD-9-CM or ICD-10-CM codes to identify perpetrator:
 - Mother/mom
 - Stepmom
 - Grandma/Grandmom
 - Foster mom
 - Father/dad
 - Stepdad
 - Grandpa/Granddad
 - Babysitter
 - Nanny
 - Parent
 - Foster parent
 - Stepparent
 - Guardian
 - Uncle
 - Aunt
 - Custodian

Negation Terms

Negation terms (and common spellings and misspellings) to exclude:

- Stroke
- Athero
- Left-sided/Right-sided neglect
- Medical neglect
- Elder neglect
- Self neglect
- Substance abuse (drug, alcohol, marijuana, methamphetamines, etc.,)
- House
- Mill
- Building
- Motor Vehicle
- Intoxication
- DUI
- Crash
- Conjugations of Spanish verb *molestar* (to bother)
- Assaulted by friend/brother/sister/cousin/boyfriend/girlfriend/classmate
- Denies assault
- Y07.0 Spouse or partner, perpetrator of maltreatment and neglect
- Y07.4[139] Sibling/Stepsibling/Cousin, perpetrator of maltreatment and neglect
- E967.[345] Perpetrator of child and adult abuse, by spouse or partner/child/sibling
- 433960002 Abuse by sibling (event)



Hiccups



Z04.42 and Z04.72



ICD-10-CM Coding Rules

- Z04.72 is applicable to pediatric patients aged 0 - 17 years inclusive.

Applicable To

- Suspected child physical abuse, ruled out

Type 1 Excludes [?](#)

- confirmed case of child physical abuse ([T74.-](#))
- encounter for examination and observation following alleged child sexual abuse ([Z04.42](#))
- suspected case of child physical abuse, not ruled out ([T76.-](#))

The following code(s) above Z04.72 contain annotation back-references [?](#) that may be applicable to Z04.72:

- [Z00-Z99](#) Factors influencing health status and contact with health services
- [Z00-Z13](#) Persons encountering health services for examinations
- [Z04](#) Encounter for examination and observation for other reasons

Approximate Synonyms

- Suspected child physical abuse, ruled out

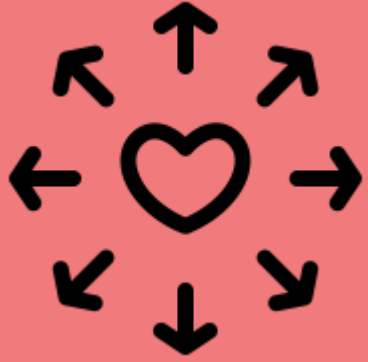


Z04.42 and Z04.72 are used regionally by coders in two different (opposite) ways

It's a cure for
hiccups... get it?



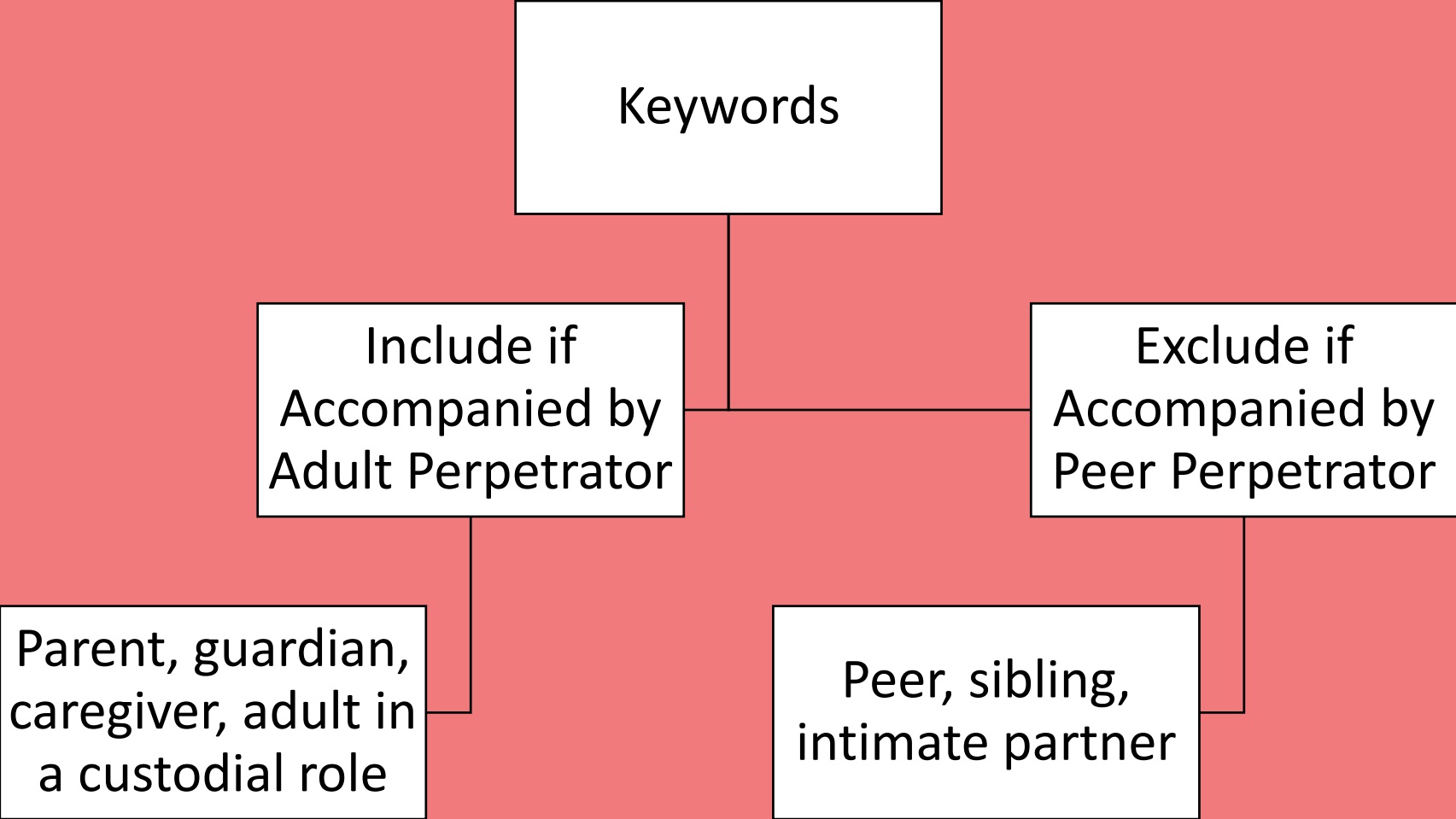
Suspected abuse versus
confirmed abuse – include vague
term in “suspected” definition
and ignore in “confirmed”
definition



Making more than one definition
can give you some flexibility and
make decisions easier



Ambiguity of perpetrator



Keywords

Include if
Accompanied by
Adult Perpetrator

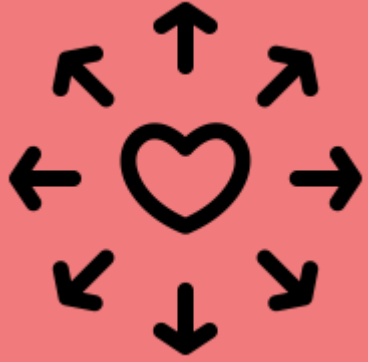
Exclude if
Accompanied by
Peer Perpetrator

Parent, guardian,
caregiver, adult in
a custodial role

Peer, sibling,
intimate partner



“Inclusive” perpetrator
terms to make definition
more specific to abuse



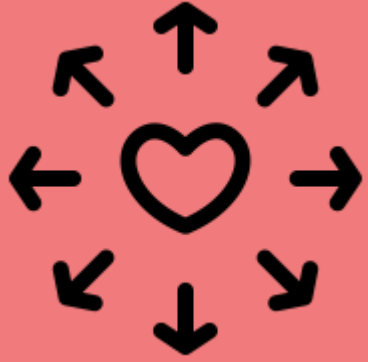
Decide on the most important aspect of your definition (specificity versus sensitivity) and allow that to guide decisions



Prior research on ICD-9 codes validated for CSA in children under 10 years – how to incorporate into definition?



Create separate “0-10” year CSA definition that includes previously validated ICD-9 codes for STI, genital bruising, etc.



Take advantage of NSSP's ability to limit age groups for definitions "on the back end"

Current Status

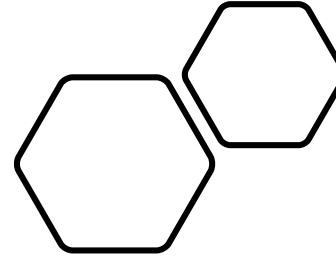
The image shows a social media post creation interface. At the top, there are three tabs: "Status" (selected), "Photo / Video", and "Event, Milestone +". Below the tabs is a text input area containing the following text:

CDC Suspected Child Abuse and Neglect Query v1 published in 'CC and DD Category' for ESSENCE users.

Other definitions under way!

At the bottom of the interface, there are icons for a warning, a location pin, and a globe labeled "Public" with a dropdown arrow. To the right of these are two buttons: a green "Buffer" button and a blue "Post" button.

Next Steps



Develop and publish

- Confirmed CAN query
- Child Sexual Abuse (CSA) query
- CSA under age 10 years query

Analyses/manuscripts

Revisions as needed to sCAN
query

Project Team

- CDC's Division of Violence Prevention (DVP)
 - Elizabeth Swedo
 - Ruth Leemis
 - May Chen
- CDC's Division of Injury Prevention (DIP)
 - Nimi Idaikkadar
- CDC's National Syndromic Surveillance Program (NSSP)
 - Taylor Dias
 - Zach Stein
 - Lakshmi Radhakrishnan



Project Collaborators

Elizabeth Swedo, MD, MPH
Surveillance Branch
Division of Violence Prevention
nsk3@cdc.gov

For more information please contact Centers for Disease Control and Prevention

1600 Clifton Road NE, Atlanta, GA 30333
Telephone, 1-800-CDC-INFO (232-4636)/TTY: 1-888-232-6348
E-mail: cdcinfo@cdc.gov Web: www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

National Center for Injury Prevention and Control
Division of Violence Prevention



