

Updates, SUID Categorization, & Priority Variables

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Overview

- State Updates
- Criteria for SUID Case Registry Categorization
- Categorization Using the Algorithm
- Database Entry
- Priority Variables



State Updates

Staff Changes

- Rachel Heitmann, MS
 - Deputy Director for Child Health and Injury Prevention
- Ashley Moore, MPH
 - Injury Prevention and Detection Section Chief
- Chase Foster, BS
 - Child and Infant Fatality Program Director
- SDY Coordinator Position to be filled on 6/1/2023

Grant Application

 Sudden Unexpected Death (SUID) and Sudden Death in the Young (SDY) Case Registry with The Centers for Disease Control and Prevention



SUID Case Registry



Reminders for SUID Case Registry Categorization

- SUID/SDY Categorization DOES NOT change the COD!
- Always follow the algorithm from the top to bottom
- SUID Categorization is for a child less than 1 year of age who dies sudden and unexpectedly
- Typical COD on Death Certificate
 - Unknown
 - Undetermined
 - SIDS/SUID
 - Asphyxia



Criteria for SUID Case Registry

- Unintentional sleep-related asphyxia, suffocation, accidental strangulation
- Unspecified suffocation
- Cardiac or respiratory arrest without other well-defined causes
- Unspecified causes with contributing unsafe sleep
 - Such as pneumonia, RSV, rhinovirus

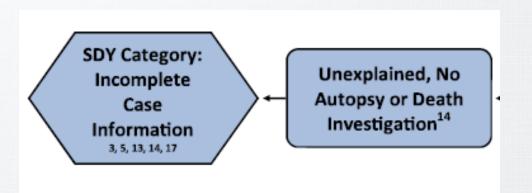


How to Categorize?



Algorithm Categorization

- Was an autopsy AND death investigation completed?
 - Yes: move onto next step
 - No:
 - Unexplained, No Autopsy or Death Investigation



SDY Categorization vs
 SUID Categorization



- If an autopsy was performed, were ALL of the following also completed?
 - ✓ Toxicology
 - ✓ Imaging
 - ✓ Pathology
- Yes: move onto the next step.
- No:
 - Unexplained, Incomplete Case Information



- Is there detailed information about the location AND position of how the infant was placed and found?
 - This information needs to be consistent. If multiple people have reported different scenarios this would be a **true** unknown.
 - Where: couch, crib, adult bed, bassinet
 - Position: on back, on stomach, on side, face up, face down, face turned
- Yes: move onto next step
- No:
 - Unexplained, Incomplete Case
 Information

Example:

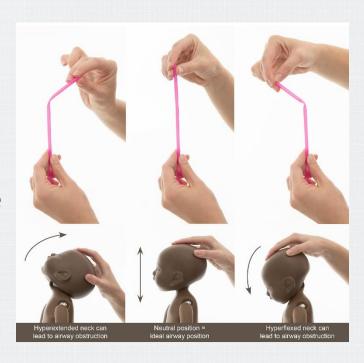
- Mother and father completed doll reenactment, and both placed infant in bassinet, face up.
- Hospital notes indicate mother stated they were sleeping with the infant in their bed.
- Statements were later made to the MEI that the parents couldn't remember if the infant was on found their back or stomach.



- Was there ANY evidence of Unsafe Sleep Factors?
 - Co-sleeping: with another person or animal
 - Soft bedding: blankets, pillows
 - Stuffed animals
 - Placed on stomach or side
 - Sleep positioners used (doc-a-tot, crib incliner)
 - Placed to sleep anywhere not a crib: swing, infant seat, car seat, adult bed
- Yes: move onto next step
- No:
 - Unexplained, No Unsafe Sleep Factors
 - This category also includes infants who were witnessed going unresponsive.



- Was there evidence of partial or full obstruction of the airway?
 - Nose or mouth obstructed
 - Chest compressed
 - Head was chin to chest or hyperextended
 - Infants was **found** face down on a surface, including a crib (exception is if the infant was at an age they could roll, typically 3 months)
 - Infant was trapped between mattress and wall.
- Yes: move onto next step
- No or Unknown
 - Unexplained, Unsafe Sleep Factors





- Do we know WHAT obstructed the airway?
 - Adult mattress
 - Blanket
 - Sibling
 - Stuffed animal
 - Adult
 - Swing padding
 - Lose clothing
- Yes: Move onto next step
- No or unknown
 - Unexplained, Unsafe Sleep Factors



- Were ALL of the following present?
 - Non-conflicting and reliable witness accounts
 - ✓ No other potentially fatal findings
 - ✓ An age/developmental stage that suffocation is feasible
 - Strong evidence of full external obstruction when found.
- No or unknown
 - Unexplained, Possible Suffocation with Unsafe Sleep Factors
 - Continue to next step: Mechanism
- Yes:
 - <u>Explained Suffocation with Unsafe</u>
 <u>Sleep Factors</u>
 - Continue to next step: Mechanism

Example of Possible Suffocation:

- Infant was placed on an adult comforter
- Infant was found on their side, with the left nostril pressed into the mattress.
- Mouth was not obstructed.



https://www.in.gov/isdh/files/SUIDI%20and%20DOSE%20Training.pdf



Last step: Mechanism Selection

- For <u>possible suffocation</u> and <u>explained suffocation</u> categories
- Four Possible Mechanisms
 - Soft Bedding
 - Wedging
 - Overlay
 - Other
- A Combination of Mechanisms May be Selected
- Note: Cause of death does not indicate category. Example, COD:
 Asphyxia, but the way the infant was found does not fit into explained suffocation category.



Mechanism Selection

Soft Bedding



https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.cnn.com%2F2021%2F04%2F 27%2Fhealth%2Fsids-infant-death-soft-bedding-wellness%2Findex.html&psig=AOvVaw2pRGkrnav-tV7pnvwOSaVP&ust=1620153950730000&source=images&cd=vfe&ved=2ahUKEwiCsv72la7 wAhXEs1MKHXSzBZcQr4kDegUIARC-AQ



Wedging



https://media.springernature.com/lw785/springer-static/image/chp%3A10.1007%2F978-1-61779-403-2_28/MediaObjects/186001_1_En_28_Fig17_HTML.jpg

16

Mechanism Selection

Overlay



https://cdn.shortpixel.ai/client/to_webp,q_glossy,ret_img,w_57 6/https://www.safesleepacademy.org/wp-content/uploads/Bedsharing-vs.-Room-sharing-2.jpg

Other



https://encryptedtbn0.gstatic.com/images?q=tbn:ANd9GcRPLV9Htoi4oTOgRINEpngVHh3q7L_LZQ r7cg&usqp=CAU



Case 1

Cause of Death	Undetermined
Autopsy	Completed
Toxicology	Completed
Imaging	Completed
Postmortem Cultures	Completed
Circumstances:	

8 month old infant was placed to sleep on their back in a bassinet. The bassinet was placed in the same room as the parents but was not too close to the bed. Child was placed in a sleep sack and was using a pacifier when they were last known to be alive. There were no items in the bassinet. Doll reenactments were completed by both parents, which confirmed the infant was placed on their back face-up, and found on their back and face-up.

Health History	No known health issues,	
	last well child check day	
	before death	

- Unexplained, Incomplete
 Case Information
- Unexplained, No Unsafe
 Sleep Factors
- Unexplained, Unsafe Sleep Factors
- Unexplained, Possible Suffocation with Unsafe Sleep Factors
- Explained, Suffocation with Unsafe Sleep Factors



Case 2

Cause of Death	Asphyxia
Autopsy	Completed
Toxicology	Completed
Imaging	Completed
Postmortem Cultures	Completed
Circumstances:	

A 3 month old infant was discovered unresponsive on a couch. The infant's caretaker (unknown relation to infant) had placed them to sleep 30 minutes prior. They were placed in the far back corner of a sectional surrounded with pillows. The caretaker stated they did not want them to roll off. The doll reenactment confirmed that the infant's head was turned to the side and their nose was partially obstructed by the couch cushion.

Health History	No known health issues, unknown last well-child
	check.

- Unexplained, Incomplete
 Case Information
- Unexplained, No Unsafe Sleep Factors
- Unexplained, Unsafe Sleep Factors
- Unexplained, Possible
 Suffocation with Unsafe
 Sleep Factors
- Explained, Suffocation with Unsafe Sleep Factors



Case 2: Unexplained, Possible Suffocation with Unsafe Sleep Factors

Mechanism Selection:

- Soft Bedding
- Wedging
- Overlay
- Other



Case 3

Cause of Death	Sudden unexplained infant death
Autopsy	Completed
Toxicology	Completed
Imaging	Not complete-Scanner not working
Postmortem Cultures	Completed
Circumstances:	

A 5 month old infant was sleeping with their parents in a queen size bed. Parents noted that the child was heard crying approximately 1 hour before they were discovered unresponsive. The mother stated child cried for a few minutes then went to sleep. Parents did not want to do a doll reenactment. Their interviews were both consistent with the position of the child, and the events leading up to death. Child was found face up and their airway was unobstructed.

Health History

No known health issues

- Unexplained, Incomplete
 Case Information
- Unexplained, No Unsafe Sleep Factors
- Unexplained, Unsafe Sleep Factors
- Unexplained, Possible Suffocation with Unsafe Sleep Factors
- Explained, Suffocation with Unsafe Sleep Factors

Database Entry



Database Entry

 Make sure the sleep related section I2 is filled out as thoroughly as possible

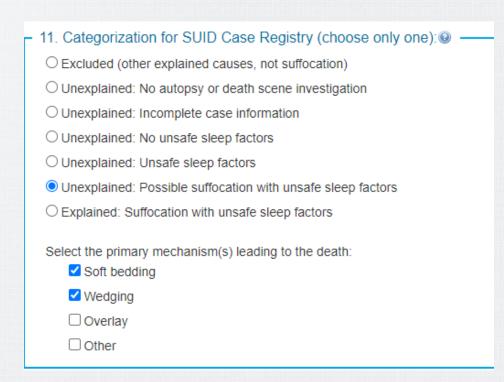
n. Child's airway when found (includes nose,	, mouth, neck and/or chest)@	
O Unobstructed by person or object Fully obstructed by person or object Partially obstructed by person or object Unknown	If fully or partially obstructed, what was obstructed? ✓ Nose ✓ Mouth □ Neck compressed □ Chest compressed	Deselect answer
	If fully or partially obstructed, describe obstruction in detail Describe: back of sofa	t:

Were the following: Present			If present, describe position of object:	If present, did object obstruct airway?		
	Yes	No	U/K	On top Next Tangled of Under to around child child child U/K	Yes No	U/K
Adult(s)	•	0	0		O •	O Deselect answer
Other child(ren)	\circ		0			Deselect answer
Animal(s)	0	•	0			Deselect answer
Mattress	\circ		\circ			Deselect answer
Comforter, quilt, or other	0	•	0			Deselect answer
Fitted sheet	\circ		\circ			Deselect answer
Thin blanket/flat sheet	•	0	0	v	0 0	O Deselect answer
Pillow(s)	\circ	\circ				Deselect answer
Cushion	•	0	0		• 0	O Deselect answer

 Data MUST match categorization

Database Entry, SECTION N (SUID/SDY)

- Select categorization from algorithm
- If appropriate select mechanism related to suffocation.
- Complete entry by adding a detailed narrative in section O1





Priority Variables



Blank vs Unknown

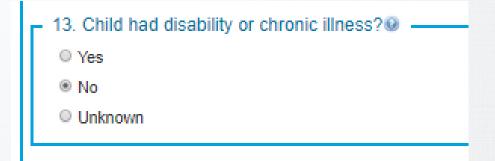
- Blank
 - Response wasn't needed
 - Didn't try to locate information
 - Accidentally left blank
 - Skipped

Unknown

- Information can't be located
- An attempt has been made to collect information
- Information is a TRUE unknown



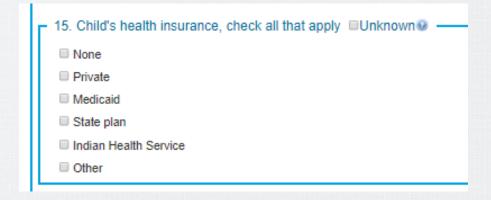
Variable A 13



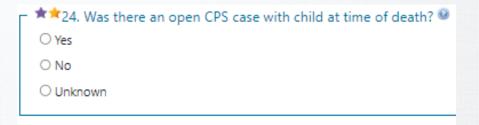
- Birth Transcript
- PCP Records
- Hospital Records
- SUIDI
- SUCDI
- Autopsy

Variable A15

- PCP & hospital records
- Face sheet
- Might require a separate release to be sent to the billing department
- TennIIS



Variable A23



- CPS team member
- Police Investigation Notes



Variable A49-Infant

- Automatic Upload
- Birth Transcript
- Birth Records
- PCP Records

```
    ★★50. Prenatal care provided during pregnancy of deceased infant? ● -
    ○ Yes
    ○ No
    ○ Unknown
```



Variable A65-Infant

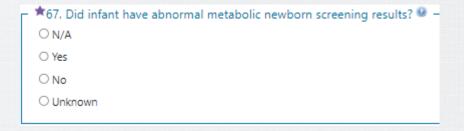


- Automatic Upload
- Birth Transcript
- Birth Records
- PCP Records
- SUIDI



Variable A66-Infant

- Birth Records
- PCP Records
- Email request to <u>NBS.Health@tn.gov</u>



Variable C1

Section C: Primary Caregiver(s) Information

Primary caregiver(s): Select only one each in column one and two.

Primary Caregiver

- Self
- Biological mother
- Biological father
- Adoptive parent
- Stepparent
- Foster parent
- Mother's partner
- Father's partner
- Grandparent
- Sibling
- Other relative
- Friend
- Institutional staff
- Other
- Unknown

Secondary Caregiver

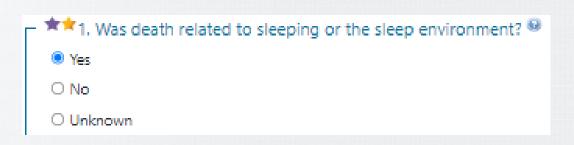
- Biological mother
- Biological father
- Adoptive parent
- Stepparent
- Foster parent
- Mother's partner
- Father's partner
- Grandparent
- Sibling
- Other relative
- Friend
- Institutional staff
- Other
- Unknown

- SUIDI
- Police Investigation
- Secondary Caregiver can be left blank if the child only had one caregiver
- Unknown if it is known that there is a secondary caregiver, but unclear who it is

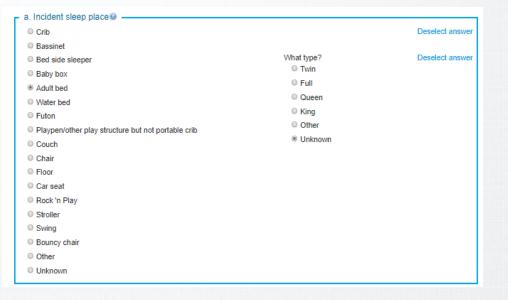


Variable 12

- SUIDI
- Hospital Record
- MEI
- EMS records
- Police records
- Autopsy narrative



Variable 12a



- SUIDI
- Hospital Record
- MEI
- EMS records
- Police records
- Autopsy narrative



Variable 12c

- SUIDI
- MEI
- Police records
- EMS records
- Autopsy narrative



Variable 121

- Child's face when found —
- O Down
- ⊕ Up
- To left or right side
- Unknown

- SUIDI
- MEI
- Police records
- EMS records
- Autopsy narrative

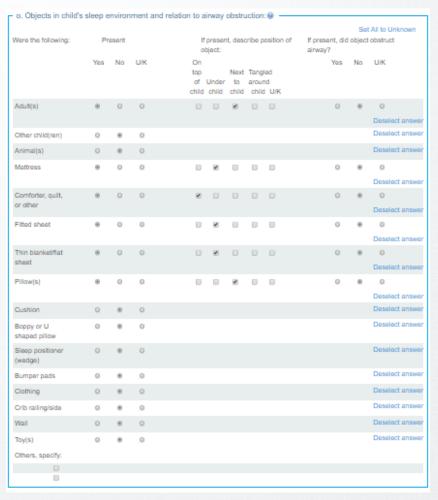
Variable I2n

- SUIDI
- MEI
- Police records
- EMS records
- Autopsy narrative

- n. Child's airway when found (includes nose, mouth, neck and/or chest)
 - Unobstructed by person or object
 - Fully obstructed by person or object
 - Partially obstructed by person or object
 - Unknown



Variable 120

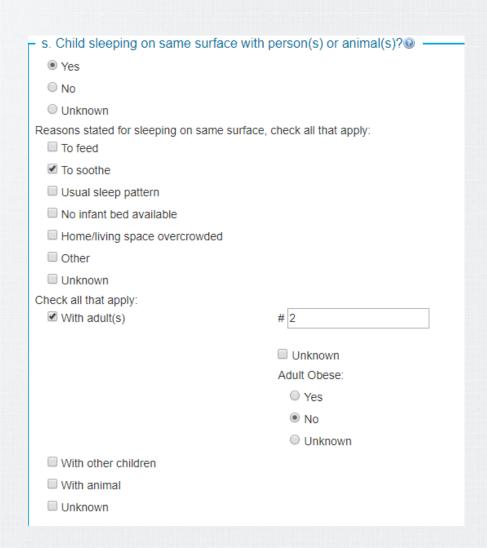


- SUIDI
- MEI
- Police records
- EMS records
- Autopsy narrative
- Please fill out a response to each item

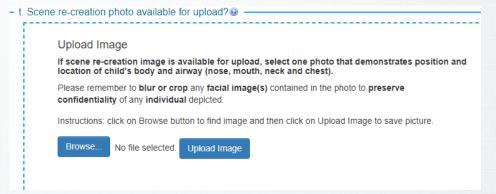


Variable 12s

- SUIDI
- MEI
- Police records
- EMS records
- Autopsy narrative
- Hospital records



Variable 12t

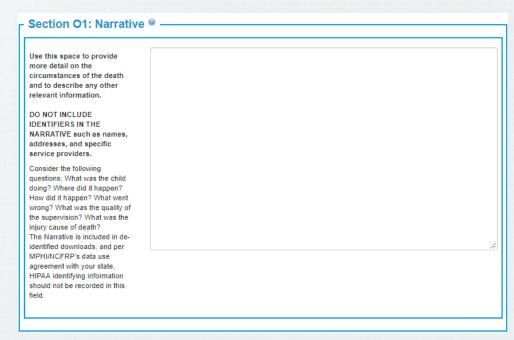


- MEI
- EMS
- Police Department
- RFC
- Sketch from SUIDI
- Scene photos without doll reenactment



Variable 01

- Enter info from CFR meeting
- Medical records
- Autopsy Narrative
- A simple narrative is better than no narrative





Important Data Fields



- Variable E8
- Was the child seen going unresponsive, drowning, crashing, etc.

- Section P
- Helps identify when QA needs to be completed and when a case can go to SDY AR
- Pulled to give time component for CDC purposes





SDY Data

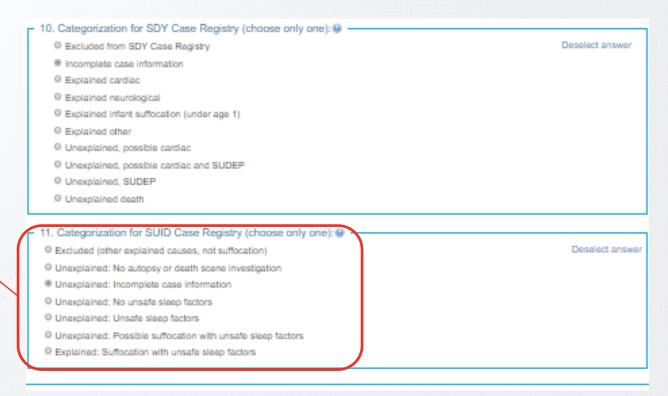
I. Is this an SDY or SUID case? ## Yes		Deselect answer
0 No		Desenct answer
. Did this case go to Advanced Review for the SDY Ca	ase Registry?@	
© N/A		Deselect answe
⊕ Yes		
Date of first Advanced Review meeting		
. Notes from Advanced Review meeting (include case	details that helped determine SDY	
ategorization and any ways to improve the review) or	·	
		/
4. Professionals at the Advanced Review meeting, ch	neck all that apply: 9	
Professionals at the Advanced Review meeting, ch Gardiologist	eck all that apply: Geneticist or genetic counselor	
□ Cardiologist	☐ Geneticist or genetic counselor	
☐ Cardiologist ☐ CDR representative	☐ Geneticist or genetic counselor ☐ Mental health professional	
CDR representative Coroner	Geneticist or genetic courselor Mental health professional Neonatologist	

_ 5. Did the Advanced Review team believe the autopsy was comprehensive?	
Ves	Deselect answer
0 No.	
© Unknown	
- Unidan	
− 6. If autopsy performed, did the ME/coroner/pathologist use the SDY Autopsy Guidance or Summary?	
0 N/A	Deselect answer
® Yos	
0 No.	
© Unknown	
7. Was a specimen saved for the SDY Case Registry?	
0 N/A	Deselect answer
# Yes	
0 No	
Unknown	
8. Was a specimen sent to the SDY Case Registry biorepository?	
⊕ N/A	Deselect answer
0 Yes	
0 No	
© Unknown	
9. Did the family consent to have DNA saved as part of the SDY Case Registry?	
0 N/A	Deselect answer
0 Yes	
® No	
Unknown	
Miles and S	Deceled and
Why not? # Consent was not attempted	Deselect answer
· · · · · · · · · · · · · · · · · · ·	
Consent was attempted but follow up was unsuccessful	
Consent was attempted but family declined	
0 Other	



SDY Data

Only item that needs to be completed by CFR team/Data Entry





Questions?





Contact Information

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Email: chase.foster@tn.gov

