Child Burn Injuries for Investigators Sgt. Jim Twardesky, MPA Warren Police Department

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Inflicted Burns

- Inflicted burn injuries account for approx. 10% of child abuse cases
- Younger children are more vulnerable
- Scald burns are the most common
 - o Any hot liquid, but water is most common
 - o Can be a spill/splash or immersion burn
- Contact burns are similar to branding & will mirror the object used

Investigating Burn Injuries:

- Is the explanation of what happened consistent with the injury?
- Is there a clean line of demarcation or a pattern inconsistent w/ the account
- Are the burns located on protected areas?
- Does the child's development match the caretakers account of the injury?

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Spill & Splash burns

- Occurs when hot liquid falls onto the victim
- Burn has irregular pattern & depth
- The liquid will cool as it moves downward
- Clothing can affect the shape



Rum Injuries in Child Abuse 115 Dent of Justice 200

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Immersion Burns

- Child fell or was forced into a tub of hot liquid
- Uniform depth & clear, defined lines indicate child was held in place
- Accidents will show signs of thrashing by child to escape
- Toilet training is a common trigger

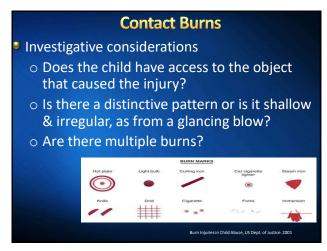
Forced submersion in a flexed position	'Zebra' stripe	'Doughnut hole' sparing

Burn Injuries in Child Abuse, US Dept. of Justice. 2001

Immersion Burns Investigative considerations Water Temperature Is the water heater working & set properly? Exposure time Burn depth Evidence of sparing Inter to be degree burn Inter to be degree burn Sign 1 | 100 | 100 | 100 | 100 | Becomes Burn depth Evidence of sparing











Case study: Burn Injury

- Child alone w/ mom
- Rolled off bed onto radiator
- Child brought to hospital by grandma
- Happened 2 days agoMom stated she didn't want to deal w/ CPS



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Caretaker doll reenactment





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Injury Reconstruction





Physical Evidence doesn't Lie







