

# Summary of Master's Thesis on 110 Bodies Found in Confined Water Spaces

By

Joanne Richardson, MFS, F-ABMDI

**National University** 

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coroinv@gmail.com

#### INTRODUCTION



 The assumption on scene is that the incident is a "tragic accident".

- This can skew the mind-set which can lead to evidence being missed.
- The purpose of this study was to identify common errors that are made when investigating bodies found in water.

### **METHODS**



Retrospective Descriptive Case Analysis performed through review of:

- Autopsy Reports
- C/ME (coroner/medical examiner) Reports
- Death Certificates & in some cases
- LEA reports
- Both Confined and open water cases were collected but study only included confined space cases.

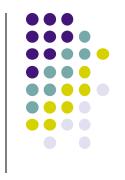
### **Methods: Data Base**



- Created in Microsoft ACCESS 2000
- 230 cases entered
- Using SPSS 16.0 statistical software package and Microsoft Excel.

- 89 Did not meet inclusion criteria due to: poor documentation, position or depth not documented or open water.
- 110 Confined Space cases used.

### **METHODS - CASES**



#### From:

St. Louis Medical Examiner's Office (112 total 1/91-3/07)

Las Vegas Coroner's Office (115 total 1/02-8/07)

+ 3 from the Summit County Office of the Coroner in CO (1-'03, 1-'04, 1-'05)

# CONFINED WATER SPACE Types



Confined Water Space Case Characteristics		
	N=110	Percent
Water Type		
Pool	62	56.4%
Bath Tub	30	27.3%
Pond	7	6.4%
Hot Tub	8	7.3%
Sink	1	0.9%
Toilet	1	0.9%
Well	1	0.9%

### POSITION FOUND RESULTS



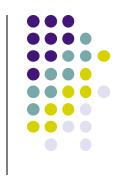
	N= 110	
Body Position	#	%
Prone	62	56.4%
Supine	24	21.8%
		40.00/
Left Side	6	10.0%
Right Side	7	5.5%
Face, Vertical Body Position FP/VBP	11	6.4%







### **MANNER - Results**



MANNER	# Cases	%	n=110
<ul><li>Accidental</li></ul>	101	91.8	
<ul><li>Suicide</li></ul>	4	3.6	
<ul><li>Natural</li></ul>	1	.09	
<ul> <li>Undetermined</li> </ul>	d 4	3.6	
<ul><li>Homicide</li></ul>	0??		

### Incomplete Documentation Results



#### **Incomplete Case Description Variables**

	N = 110
Water Temperature	62.7% not recorded
Clothing	57.3% present
Drugs or Alcohol	20.1% present
Swimmer	42.7% not recorded
Not Autopsied	10.9% not autopsied
Dimensions + Depth	48.2% measured both
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### **RED FLAG** TRENDS



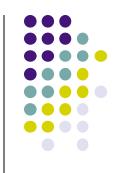
Social Services Involved	7
Co-Bathing	4
Unexplained Trauma, Bruising, Abrasions	12
Staged & Inconsistent Stories	15
Neglect	14

## **RED FLAG CASES** Frequency Results



Red Flag Confined Water Space Type N = 22			
Туре	Frequency	Percent	
Bathtub	10	45.5%	
Pool	7	31.8%	
Hot Tub	2	9.1%	
Pond	1	4.5%	
Sink	1	4.5%	
Toilet	1	4.5%	

### **DISCUSSION:**RED FLAG INDICATORS



How do you explain the position found?

Does it make sense?

Any bruising? (may be seen at autopsy or after refrigeration, communicate with pathologist or be present at autopsy)

Was person left alone by caregiver? Refer to prosecutor for possible neglect.

Known to Social Services or LEA prior to incident?

Statement Analysis

### DISCUSSION: Red Flag's

- Age of decedent (high risk population?)
- Co-bathing with siblings (aggressive tendencies)
- Position found
- Age Appropriate development (could child hold head up?)
- Temperature of water
- Plausibility of caregiver's story
- Seizure history
- Prone with head towards faucet
- Feet outside of tub

#### CONCLUSIONS

#### Significance Overlooked

- Dunking (as a form of abuse)
- Bruising locations
- Scene Staging
- Co Bathing
- Witness statements
- Circumstances don't make sense
- The neglect factor
- Physical ability (age dependent)

### CONCLUSIONS



- More than one suspicious indicator for each red flag case.
  - Known to DSS
  - Police called for domestic situations
  - Story did not make sense
  - Position did not make sense
  - High risk group
  - Neglect





- Lack of communication between LEA'S, MLDI's, Pathologists, Social Services, Prosecutors
- Allowing sympathy to skew truth
- Lack of consistent terminology
- Not picking up red flags
- Poor Scene Documentation

### CONCLUSION & RECOMMENDATIONS



- Standard terminology
- Utilizing a form for adults and children
- Documentation should include both:

Primary scene (incident)

Secondary scene (hospital)

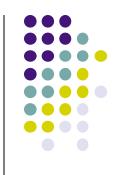
Dimensions, depth, water temperature

Sketches

Background check

Explaining position found

### CONCLUSION & RECOMMENDATIONS



- Re-enactments with mannequins or dolls can help prove plausibility of statement or scene staging
- "Show me" reenactment

Timeline of events with caregiver going through motions of what they did

Statement analysis

#### SUMMARY



- As a result of this study, it was found that position found can be helpful in explaining the scene plausibility. (Tub, pool)
- It was learned that there were more Red Flag cases than expected.
- Communication btwn C/ME, LEA, DSS, DA was lacking.
- An adult and child form was developed for use in confined space water deaths.

#### **ACKNOWLEDGEMENTS**



Dr. Mary Case – St. Louis MEO

 Dr. Mike Murphy – Former, Las Vegas Coroner

 For a copy of the checklists, email me: coroinv@gmail.com.