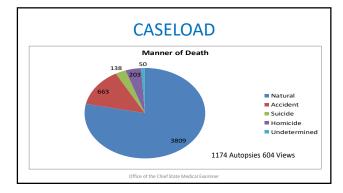


### **LEARNING OBJECTIVES**

- Learn the three different conditions encountered in advanced stages of decomposition
- Understand the process of desiccation and the difficulties of fingerprinting
- Recognize traditional rehydration methods
- · Become familiar with a dissecting technique
- Learn the best and fastest method to rehydrate desiccated fingers

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# \* Essex \* Hudson \* Passaic \* Somerset | Population 2 Million | 4900 Cases



### **IDENTIFICATION**

- Visual Identification
- Self Identification
- Photo ID

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### Scientific Identification

- Fingerprints
- Dental Comparison
- Radiographic Comparison
- Medical Implants
- Anthropology
- DNA

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### **Identification Other**

- Tattoos
- Scars
- Amputations
- Deformities
- Disease processes
- Distinctive features

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### Putrefaction



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### Maceration



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Desiccation
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## **Rehydration Methods**

- Potassium Hydroxide 24-72 hours
- Sodium Hydroxide 24-72 hours
- I.D. Enhancer Solution ®

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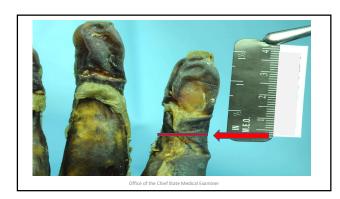
### 10 Subjects

- Ages 47-89
- Found indoors
- Last seen alive 5-21 days, 2 unknown
- 3 fingers chosen
- 6% Sodium Hydroxide
- 12% Sodium Hydroxide
- I.D. Enhancer Solution®

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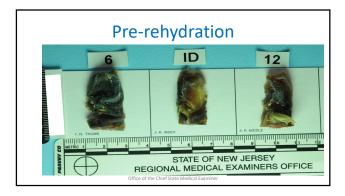






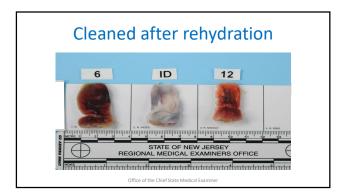














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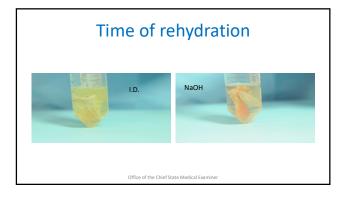
### **Final Results**



### Evaluation of the best solution

- Time of rehydration
- Pliability and abnormal foldings
- Texture
- Destructive
- Better fingerprints
- Less intervention

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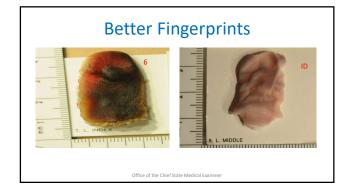
















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