Moulage Magic

Adapted from Gail L. Johnson, PhD, MS, BSN, CHSE, CHSOS Moulage: Mannequin Safe Tips & Tricks
Lori Winters, MS, RN

Objectives

- Create realistic looking wounds using one or more moulage techniques
- Demonstrate how to use moulage to create realism for simulation scenarios

Moulage

- **Moulage**: The artistic technique of incorporating realistic cues, such as wounds, perspiration, blood, or therapeutic devices, to increase the "psychological fidelity" of a simulation.
**Does Appearance Matter?**

- “the addition of moulage will urge students to undertake key life-saving interventions more quickly.” (Mills et al, 2018)
- “each generation expecting better portrayal of authenticity than the previous” (Stokes-Parish, et al, 2017)
- “every simulation session must have enough realism for the participants to become fully engaged in the scenario. ...enough to overcome the sense of playacting.” (Hwang & Bencken, 2008)

**Considerations**

- Alignment with objectives
- Participant considerations
  - Level of experience
  - Environment
  - Inter-professional education
- Subject
  - Human
  - Manikin
- Knowledge
  - Physiology of the situation
  - Mechanism of injury

**What do you need?**

- Various supplies and materials related to moulage and simulation facilitation.
Moulage Supplies cont...

- Mixing Basics
  - Secure locking containers
  - Spoons/tongue depressor
  - Leur Lock syringes
  - Cath tip syringes
  - Drainage bags for IV fluids
  - Funnels
  - Measuring cups
  - Mixing cups

Example of Bruises

Human

Manikin
Example of Wounds

- Oozing Blood
  - Mix
    - Blue dish detergent
    - Red food coloring
  - Commercial products
- Road Rash
  - Commercial products
    - Ben Nye
    - Graftobian

Example of Burns
Example of Burns

Body Fluids Magic

Sample Recipe

- **Snot**
  - KY Jelly
  - A toothpick tip of yellow or green finger paint

- **Meconium**
  - Green finger paint
  - Yellow finger paint
  - Blue dish detergent

Mix finger paints, adding until desired color. Add dish detergent for color and consistency.
Sample Recipe

- **Liquid C-diff Stool**
  - ½ cup Corn starch
  - 2 tsp Shaving cream
  - Black finger paint
  - Green finger paint
  - Red finger paint
  - 2 drops green food coloring
  - 1 drop red food coloring
  - Blue dish detergent

  Pour distilled water into a bowl for the approximate amount of stool, add green and red finger paints to make a brown color, add a tiny amount of black finger paint and food coloring. Mix corn starch, shaving cream, and blue dish detergent for realistic consistency.

Sample Recipe

- **Blood Clots**
  - 1 box Gelatin
  - Food coloring
  - Water

  Mix according to box directions but use half as the amount of water. Add food color until desired color obtained. Pour into a cake pan (9x13). Place in refrigerator overnight to settle.

Food Products?

- **Avoid**
  - Mold Growth

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Food products?

- Possible Exceptions:
  - No direct contact with manikin
    - Edema: Cream of wheat/oatmeal in secured bags covered with nylons
    - Coffee grounds added to a fluid presented in a basin
  - Cornstarch for thickness
  - Rice crispies/broken chips in a baggie for crepitus
  - Plain gelatin with red food coloring for clots

Clean Up

- Adhesive & Make Up
  - "White" eraser
  - Powder- Talc
  - Geo Gone
  - Mild soap & water
- Ink
  - 10% Benzyl Peroxide Cream
  - Light source 10 inches from area

Moulage Supplies cont....

- Basic device needs
  - Dressings
  - Basins
  - Drainage collection devices
    - IV infusion over flow
    - Foley
    - Stool collection device
  - Medications
  - Intravenous supplies
  - Chux
  - Armbands
  - Oxygen flowmeter
  - Oxygen Adjuncts
**Medications**

- Made EASY:
  - 1 Empty IV bag
  - 2 Sets of secondary tubing
  - 1 three-way stopcock

**Refilling IV Bags**

- Made EASY:
  - 1 Empty IV bag
  - 2 Sets of secondary tubing
  - 1 three-way stopcock

**Medical Supplies cont...**

- Bag valve mask
- Splints
- C-collar
- Backboard
- Traction
- Chest tubes
- JP bulbs
- IV pumps
- Feeding pumps
- Feeding tubes
- Suction Canister
- Yankauer

THE LIST IS ENDLESS!!!
Clinical Supplies & Equipment

- Use expired materials (ie. Medications, defib pads)
  - Empty according to OSHA Standards
- Repackage materials (ie. Cath kits, central line kits)
  - Take photos of kit contents & arrangement
- Predetermined disposal site during the simulation
- Make friends with ancillary departments (ie. Pharmacy, Biomed, Materials)
- Refill & Reuse... Reuse... Reuse

Show me the money!!!

Wardrobe
Clinical Supplies & Equipment

References


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Lori Winters, MS, RN
lori.a.winters@healthpartners.com