



Casualty Simulation Kits

INSTRUCTIONS FOR USE



PREPARATION OF SIMULATED BLOOD

Thoroughly mix contents of packet in 1 quart of hot water. Stir briskly for 5 minutes or until powder has completely and evenly been mixed with all of the water. Now add an additional 3 quarts of cold water. Stir actively until solution is complete.

PREPARATION OF SIMULATED COAGULANT BLOOD

Add one heaping teaspoon of the methyl cellulose powder to ½ cup of hot water. Stir briskly, and when powder is completely dissolved, add 1½ cups of simulated blood. The resultant thick blood is suitable for use with many casualty simulations.

CAUTION NOTE: Blood Powder and Simulated Coagulant Blood contains certified food colors which may stain. Extreme caution should be practiced when using near fabrics, wood floors, upholstery, and human hair. Good laundering will remove color from many fabrics but may leave permanent stains on hair, wood, certain fabrics, and some synthetics. Certified food colors are formulated with USP methyl cellulose and USP sodium benzoate to prevent spoilage. **NOTE:** Not intended for human consumption. **DO NOT PUT IN MOUTH.**

CLOTHING

Victims should use old clothing, which may be torn to “conform” with the type of injury being demonstrated. Bleeding moulages should be concealed under the victim’s clothing and only the wound should be showing. Short sleeves and shorts are not recommended for extremity bleeding compound fractures.

STRAP-ON INJURIES: ASSEMBLY AND OPERATION

- A. Clamp the tube in the reservoir line closed with a plastic clamp. Open the cap on reservoir and fill with simulated blood and close the cap. Affix moulage to appropriate part of the body and connect the tube to bloodline. **NOTE:** To remove any kinks from reservoir assemblies, dip tubing into hot water approximately 15 to 20 seconds and cool before using.
- B. After “wounded” person is in position, open reservoir line clamp. Squeeze the bulb several times until blood fills the bulb and bloodline to moulage. Gentle, intermittent squeezing of the bulb will simulate arterial bleeding.
- C. The sucking wound of the chest moulage does not have a reservoir. It is connected directly to the single outlet bulb which is initially half filled with simulated blood. The bulb, when squeezed and released in synchronization with the breathing, will create a sucking and frothing effect at the wound site.
- D. For non-bleeding injuries, coagulant blood and brown grease paint should be smeared on the injury area.

CLEANING AND MAINTENANCE

Empty the reservoir of all simulated blood. Fill the bag with warm water and a few drops of a mild dish detergent. Run soapy water through bloodlines to remove any remaining blood. Refill bag with clear warm water and run water through to rinse soap from bloodlines. Wash the moulages with mild soap and warm water, rinse and let dry thoroughly before storing.

CAUTION NOTE: Do not scrub, use boiling water, harsh detergents, or abrasive cleaners. Moulages should be rolled for storage. **DO NOT FOLD.**

MAKE-UP INJURIES

Liberalily coat the back of plastic wound replica with the adhesive provided and press wound replica firmly against skin. Feather edges and surrounding area with simulation wax. Smear dark brown grease paint on palms of hands and rub into and around wound area. Apply coagulant blood to bleeding type injuries. Tobacco ash, dirt, or similar foreign matter may be rubbed into wounds for additional realism. Coagulant blood is also excellent for nose and ear bleeding

REMOVAL OF MAKE-UP INJURIES AND MAKE-UP

Adhesive and PLASTEX are soluble in alcohol. Grease paint may be best removed using make-up remover or cold cream.



MAKE-UP MATERIALS AND SUPPLIES

Make-up may be used to simulate a large variety of casualties. Before application of grease paint, coat area with cold cream. Grease paint is applied using the fingers and palms of the hand. Liners are used for detail coloring.

Shock: Apply cold cream to entire face area. Rub in white paint to cover. Apply blue grease paint under eyes, cheeks, ear lobes, and mouth. Blend in. The cold cream exudes moisture and simulates perspiration.

Scrapes and abrasions: Apply light coating of adhesive to the injury site. Rub in a small amount of brown grease paint, then gently rub dirt or sand into the wound. Apply a small amount of coagulant blood. Use comb to mark direction of abrasion.

1st and 2nd degree burns: Apply adhesive to burn area. Use red and brown grease paint to simulate burned area. Petroleum jelly makes effective blisters for 2nd degree burns. To complete the visual effect for a burned victim, tear and char clothes prior to the victim wearing.

TO SIMULATE GLASS IN WOUND

Smooth a narrow mound of make-up wax on "victim's" skin, embed plexiglass fragment in the wax, and cover entrance site of plexiglass with simulated coagulant blood. Other objects, such as nails, pieces of metal, etc., can be used.

CAUTION: SOME PIECES MAY CONTAIN SHARP EDGES! To avoid injury, dull the sharp edges before applying to victim.

BASIC CASUALTY SIMULATION KIT #800-815



KIT CONTENTS

Wounds

- 1 Compound Fracture Tibia (#800-6761)
- 12 Assorted Stick-On Lacerations and Open Fractures (#800-219)

Accessories

- 1 Casualty Simulation Wax (#800-223)
- 1 Each of Grease Paint (#800-230)
- 1 Pkg. of Broken Plexiglass for Simulating Glass Embedded in Wound (#800-230)

Makeup Accessories

- 1 White Grease Paint, 2 oz. (#800-220)
- 1 Brown Grease Paint, 2 oz. (#800-221)
- 1 Blue Grease Paint, 2 oz. (#800-222)
- 1 Red Grease Paint, 2 oz. (#800-218)
- 1 Body Adhesive for Stick-On Wounds (#800-2159)
- 1 Atomizer Mist Sprayer (#800-839)
- 3 Spatulas (#800-835)
- 3 Tongue Depressors (#800-842)
- 1 Pkg. of Methyl Cellulose for Blood Thickening (#800-228)
- 1 Bottle Coagulant Blood (#800-226)
- 1 Pkg. Powdered Blood (#800-225)

MULTIPLE CASUALTY SIMULATION KIT #800-816



KIT CONTENTS

Bleeding Strap-On Wounds with Reservoir Bags and Pump Assembly

- 1 Leg Amputation (#800-6760)
- 1 Compound Fracture of Tibia – Lower Leg (#800-6761)
- 1 Compound Fracture of Humerus – Upper Arm (#800-6816)
- 1 Sucking Wound of the Chest (#800-6713)
- 1 Gunshot Wound of the Palm (#800-6881)
- 24 Assorted Stick-On Lacerations & Open Fracture Wounds (#800-219)

Makeup Accessories

- 1 Bottle of Coagulant Make-up Blood (#800-226)
- 1 Pkg. of Methyl Cellulose for Blood Thickening (#800-228)
- 3 Packages of Powder to Make 3 Gallons of Simulated Blood (#800-225)
- 1 Body Adhesive for Stick-On Wounds (#800-2159)
- 1 Casualty Simulation Wax (#800-223)
- 1 Pkg. of Broken Plexiglass for Simulating Glass Embedded in Wound (#800-230)
- 1 White Grease Paint, 2 oz. (#800-220)
- 1 Brown Grease Paint, 2 oz. (#800-221)
- 1 Blue Grease Paint, 2 oz. (#800-222)
- 1 Red Grease Paint, 2 oz. (#800-218)
- 4 Reservoir Bags with Pumps Assembled (#800-229)
- 1 Atomizer Mist Sprayer (#800-839)
- 3 Spatulas (#800-835)
- 3 Tongue Depressors (#800-842)

EMT CASUALTY SIMULATION KIT #800-818



KIT CONTENTS

Bleeding Strap-On Wounds Complete with Reservoir Bags with Pump Assembly

- 1 Jaw Wound (#800-6807)
- 1 Abdominal Wound with Protruding Intestines (#800-6808)
- 1 Sucking Wound of the Chest (#800-6713)
- 2 Compound Fracture of the Humerus – Upper Arm (#800-6816)
- Laceration of the Forehead (#800-6725)
- Compound Fracture of Femur – Upper Leg (#800-6819)
- 1 Leg Amputation (#800-6760)
- Compound Fracture of Tibia – Lower Leg (#800-6761)
- Gunshot Wound of Palm (#800-6881)

Non-Bleeding Simulated Wounds

- 1 Phosphorous Burn of the Hand (#800-6801)
- 1 Face in Shock (#800-6882)
- 1st, 2nd, & 3rd Degree Burn of the Face (#800-6828)
- 1st, 2nd, & 3rd Degree Burn of the Chest (#800-6724)
- 1st, 2nd, & 3rd Degree Burn of the Hand (#800-6773)
- 1st, 2nd, & 3rd Degree Burn of the Hand (#800-6799)
- 1st, 2nd, & 3rd Degree Burn of the Forearm (#800-6802)
- 36 Assorted Stick-On Lacerations & Open Fracture Wounds (#800-219)

Makeup Accessories

- 1 Body Adhesive for Stick-On Wounds (#800-2159)
- 2 Casualty Simulation Wax (#800-223)
- 3 Bottles of Coagulant Makeup Blood (#800-226)
- 5 Packages of Powder to Make 5 Gallons of Simulated Blood (#800-225)
- 1 Pkg. of Methyl Cellulose for Blood Thickening (#800-228)
- 2 White Grease Paint, 2 oz. (#800-220)
- 2 Brown Grease Paint, 2 oz. (#800-221)
- 2 Blue Grease Paint, 2 oz. (#800-222)
- 2 Red Grease Paint, 2 oz. (#800-218)
- 2 Packages of Broken Plexiglass Simulating Glass Embedded in Wound (#800-230)
- Container of Cold Cream (#800-851)
- 2 Atomizer Mist Sprayers (#800-839)
- 1 Plasteline Modeling Clay – White (#800-856)
- 1 Plasteline Modeling Clay – Dark (#800-855)
- 6 Tongue Depressors (#800-842)
- 1 Tissues (#800-844)
- 1 Fake Dirt (#800-233)
- 1 Charcoal (#800-854)
- 1 Petroleum Jelly (#800-239)
- 1 Mirror (#800-838)
- 6 Spatulas (#800-835)

ADVANCED MILITARY CASUALTY #800-819



Bleeding Strap-On Moulages Complete with Reservoir Bag & Pump Assembly

- 2 Compound Fracture Humerus – Upper Arm (#800-6816)
- 2 Compound Fracture Tibia – Lower Leg (#800-6761)

Non-Bleeding Simulated Wounds

- 5 Dozen Assorted Stick-On Injury Simulations (#800-219)

Makeup Accessories

- 1 Makeup Palette (#800-834)
- 1 Pair of Scissors (#800-836)
- 1 Mirror (#800-838)
- 1 Measuring Cup (#800-840)
- 2 Atomizer Mist Sprayers (#800-839)
- 1 Casualty Simulation Wax (#800-223)
- 1 Body Adhesive for Stick-On Wounds (#800-2159)
- 2 Bottles of Coagulant Makeup Blood (#800-226)
- 3 Packages of Powder to Make 3 Gallons of Simulated Blood (#800-225)
- 1 Methyl Cellulose for Blood Thickening (#800-228)
- 2 Packages of Broken Plexiglass Simulating Glass Embedded in Wound (#800-230)
- 2 Fake Dirt (#800-233)
- 1 Glycerine (#800-847)
- 1 Cold Cream (#800-851)
- 1 Mineral Oil (#800-240)
- 1 Charcoal (#800-854)
- 3 Latex Compound to Simulate Scars (#800-231)
- 2 Petroleum Jelly (#800-239)
- 2 Pressure Sensitive Tape (#800-845)
- 1 Plastaline Modeling Paste – White (#800-856)
- 1 Plastaline Modeling Paste – Dark (#800-855)
- 2 each Makeup Liners ½ oz. each of Colors: Red (#800-866), Blue (#800-868), Brown (#800-235), White (#800-234), Yellow (#800-867), Black (#800-236), & Flesh (#800-237)
- Cotton Balls Assortment (#800-843)
- Cotton Applicators/Swab Sticks (#800-841)
- Tongue Depressors (#800-842)
- Tissues (#800-844)
- 6 Makeup Sponges (#800-241)
- 6 Spatulas (#800-835)

FORENSIC WOUND SIMULATION TRAINING KIT #800-700



KIT CONTENTS

- Petechiae (#800-719)
- Ecchymosis (#800-717)
- Pattern Ligature (#800-712)
- Slash (#800-713)
- Shotgun Close Range (#800-721)
- Shotgun (#800-714)
- Intermediate Range (#800-720)
- Intermediate Range Round (#800-716)
- Intermediate Range Flake (#800-715)
- Exit Gunshot (#800-722)
- Contact Gunshot (#800-723)
- Contact Handgun (#800-735)
- Contact Wound (#800-732)
- Screwdriver (#800-724)
- Bite Partial (#800-725)
- Bite Complete (#800-729)
- Hesitation (#800-726)
- Single-Edge Knife (#800-727)
- Double-Edge Knife (#800-730)
- Blunt Bat (#800-728)
- Bunny Ears (#800-731)
- Exit Wound Small (#800-733)
- Exit Wound Large (#800-734)
- Ice Pick (#800-736)
- Compound Fracture Humerus (#800-830)
- Foreign Body Protrusion (#800-901)
- Large Laceration (#800-903)
- Medium Laceration (#800-904)
- Large Compound Fracture (#800-908)
- 2nd Degree Burn (#800-914)

Makeup Accessories

- 3 Packages of Powder to Make 3 Gallons of Simulated Blood (#800-225)
- 2 Bottles of Coagulant Make-up Blood (#800-226)
- 2 Body Adhesive for Stick-On Wounds (#800-2159)
- 2 Casualty Simulation Wax (#800-223)
- 1 Pkg. of Broken Plexiglass for Simulating Glass Embedded in Wound (#800-230)
- 2 Brown Grease Paint, 2 oz. (#800-221)
- 2 Red Grease Paint, 2 oz. (#800-218)
- 2 Powdered Charcoal, 2 oz. (#800-854)
- 2 Glycerin (#800-847)
- Makeup Sponge Wedges (#800-241)

WEAPONS OF MASS DESTRUCTION CASUALTY SIMULATION KIT #800-870



KIT CONTENTS

Stick-On Moulages

- 6 2nd Degree Burns (#800-914)
- 6 Burned Eyes from Mustard Gas (#800-630)
- 6 Compound Fracture Humerus (#800-907)
- 6 1st, 2nd, 3rd Degree Burns (#800-827)
- 6 Major Avulsions, 8 x 5 cm (#800-912)
- 6 Avulsions, 3.5 cm (#800-911)
- 6 Small Sepsis Wounds (#800-909)
- 6 Small Exit Wounds (#800-733)
- 6 Star-Shaped Anthrax Wounds (#800-632)
- 6 Oblong Anthrax Wounds (#800-633)
- 6 Large Star-Shaped Anthrax Wounds (#800-634)
- 6 Smallpox, Double Wound (#800-635)
- 6 Multiple Smallpox Wounds (#800-636)
- 6 IED Wounds (#800-637)
- 6 Multiple Mustard Gas Wounds (#800-638)
- 6 Small Mustard Gas Wounds (#800-639)
- 6 Medium Mustard Gas Wounds (#800-640)
- 6 Large Mustard Gas Wounds (#800-641)

Strap-On Moulages

- 1 Hand Amputation (#800-621)
- 1 Leg Amputation (#800-6760)
- 1 Arm Amputation (#800-623)
- 1 Anthrax Forehead (#800-624)
- 1 Mustard Gas Face (#800-625)
- 1 Anthrax Double Wound Face (#800-626)
- 1 2nd-3rd Day Smallpox Face (#800-627)
- 1 8th-10th Day Smallpox Face (#800-628)
- 3 Sarin, Ricin Faces (Bleeding Eyes and Nose, Sweating) (#800-629)

Makeup Accessories

- 100 Tongue Depressors (#800-842)
- 1 Coagulant Blood, 4 oz. (#800-226)
- 1 Methyl Cellulose (#800-228)
- 1 Blood Powder, 1 per Gallon (#800-225)
- 1 Body Adhesive (#800-2159)
- 1 Casualty Simulation Wax, 8 oz. (#800-223)
- 1 White Grease Paint, 2 oz. (#800-220)
- 1 Brown Grease Paint, 2 oz. (#800-221)
- 1 Blue Grease Paint, 2 oz. (#800-222)
- 1 Red Grease Paint, 2 oz. (#800-218)
- 1 Powdered Charcoal, 2 oz. (#800-854)
- 1 Atomizer Mist Sprayer (#800-839)
- 6 Makeup Sponge Wedges (#800-241)
- 1 Baby Powder, 4 oz. (#800-0194)

DELUXE CASUALTY SIMULATION KIT #800-890



KIT CONTENTS

Stick-On Wounds

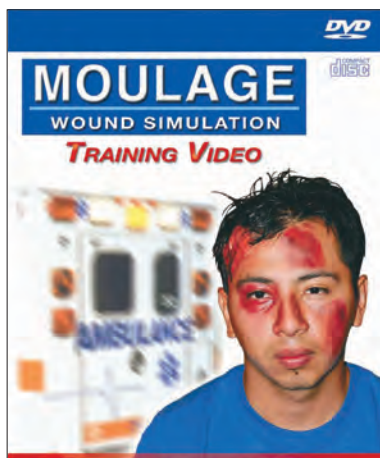
- Eyeball (#800-900)
- Foreign Body Protrusion (#800-901)
- Eviscerated Intestines (#800-902)
- Large Laceration 5 cm (#800-903)
- Medium Laceration 3 cm (#800-904)
- Small Laceration 1 cm (#800-905)
- Compound Fractured Tibia (#800-906)
- Compound Fractured Humerus (#800-907)
- Compound Fractured Femur (#800-908)
- Small Sepsis Wound (#800-909)
- Large Sepsis Wound (#800-910)
- Avulsion 3 x 5 cm (#800-911)
- Major Avulsion 8 x 5 cm (#800-912)
- Crushed Foot (#800-913)
- 2nd Degree Burn (#800-914)

Makeup Accessories

- Atomizer (#800-839)
- Body Adhesive (#800-2159)
- Cold Cream (#800-851)
- Cotton Balls (#800-843)
- Glycerin (#800-847)
- Mineral Oil (#800-240)
- Mirror (#800-838)
- Pallet (#800-834)
- Petroleum Jelly (#800-239)
- Plexiglass Pack (#800-230)
- Q-tips (#800-841)
- Scissors (#800-836)
- 6 Spatulas (#800-835)
- 6 Sponges (#800-241)

Item Number	Item Description
800-815	Basic Casualty Simulation Kit
800-816	Multiple Casualty Simulation Kit
800-818	EMT Casualty Simulation Kit
800-819	Advanced Military Casualty Simulation Kit
800-880	Moulage Instruction Movie
800-890	Deluxe Casualty Simulation Kit
800-700	Forensic Wound Simulation Training Kit
800-710	Forensic Wound Simulation Pack
800-870	Weapons of Mass Destruction Casualty Simulation Kit
800-900	Eyeball Stick-On
800-901	Foreign Body Protrusion Stick-On
800-902	Eviscerated Intestines Stick-On
800-903	Large Laceration 5 cm Stick-On
800-904	Medium Laceration 3 cm Stick-On
800-905	Small Laceration 1 cm Stick-On
800-906	Compound Fracture Tibia Stick-On
800-907	Compound Fracture Humerus Stick-On
800-908	Compound Fracture Femur Stick-On
800-909	Small Sepsis Wound Stick-On
800-910	Large Sepsis Wound Stick-On
800-911	Avulsion 3 x 5 cm Stick-On
800-912	Major Avulsion Stick-On
800-913	Crushed Foot Stick-On
800-914	2nd Degree Burn Stick-On
800-6700	Hand with Severed Fingers, Non-Bleeding Strap-On
800-6801	Phosphorous Burn of the Hand, Non-Bleeding Strap-On
800-6802	2nd and 3rd Degree Burn of the Forearm, Non-Bleeding Strap-On
800-6807	Jaw Wound, Non-Bleeding Strap-On
800-6808	Abdominal Wound with Protruding Intestines, Non-Bleeding Strap-On
800-6816	Compound Fracture Humerus (Upper Arm), Non-Bleeding Strap-On
800-6819	Compound Fracture Femur (Upper Leg), Non-Bleeding Strap-On
800-6828	2nd and 3rd Degree Burn of the Face, Non-Bleeding Strap-On
800-6835	Frostbite of the Foot, Non-Bleeding Strap-On
800-6880	Trench Foot, Non-Bleeding Strap-On
800-6882	Face in Shock, Non-Bleeding Strap-On
800-6884	Hypodermic Needle Injection Trainer Non-Bleeding Strap-On
800-6724	2nd and 3rd Degree Burn of the Chest Non-Bleeding Strap-On
800-6732	Burn of Face (FOR MANIKIN USE ONLY) Non-Bleeding Strap-On
800-6750	Blade/Propeller Wound Non-Bleeding Strap-On
800-6773	2nd and 3rd Degree Burn of the Back Non-Bleeding Strap-On
800-6799	2nd and 3rd Degree Burn of the Hand Non-Bleeding Strap-On
800-6881	Gunshot Wound of the Palm Bleeding Strap-On
800-6713	Sucking Wound of the Chest Strap-On
800-6725	Laceration of the Forehead Bleeding Strap-On
800-6726	Laceration of the Forearm Bleeding Strap-On
800-6727	Broken Clavicle Bleeding Strap-On
800-6728	Projectile Entry Bleeding Strap-On
800-6729	Impalement of Lower Leg Bleeding Strap-On
800-6730	Crushed Foot Bleeding Strap-On
800-6731	Jaw Wound (FOR MANIKIN USE ONLY) Bleeding Strap-On
800-6733	Laceration of Forehead (FOR MANIKIN USE ONLY) Bleeding Strap-On
800-6760	Leg Amputation Bleeding Strap-On
800-6761	Compound Fracture Tibia (Lower Leg) Bleeding Strap-On

MOULAGE MOVIE #800-880



Moulage instruction is hard to find, unless you look at the Moulage Movie by Simulaids. Produced in conjunction with a leading artist using Hollywood-training techniques and years of military experience, the Moulage Movie explains the use and application of every portion of the Simulaids Casualty Simulation Kits. Start simple and go for the realism; each segment of moulage is represented within the frames you'll see during this 45-minute presentation. Use it as a base to build your repertoire of the most realistic moulage to add challenge to your next casualty incident.

Actual product may vary slightly from photo. Nasco reserves the right to change product color, materials, supplies, or function as needed.



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