

MEDICAL-SURGICAL SUPPLY FORMULARY BY DISASTER SCENARIO

Presented by the Association for Healthcare Resource & Materials Management (AHRMM), the Health Industry Distributors Association (HIDA), and the Health Industry Group Purchasing Association (HIGPA).

BACKGROUND

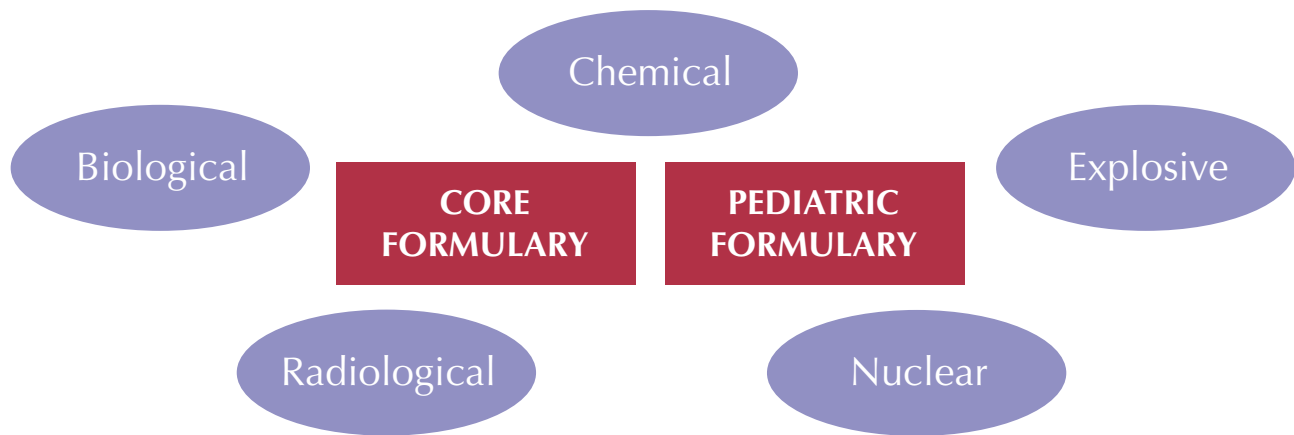
The following is a proposed starting point for planning and coordinating medical/surgical supplies for hospitals throughout the United States during a large scale CBRNE (Chemical, Biological, Radiological, Nuclear, and Explosive) or Natural disaster. These supply formularies were created based on feedback and input from multiple hospitals and healthcare systems and have been reviewed by AHRMM members, their clinical representatives, and members of HIDA. The lists are intended only as starting points for preparedness efforts and should be modified to fit each hospital according to its individual needs and feedback from its clinicians.

“Large scale” refers to events that will produce casualties beyond that which can be planned for by a single hospital. By definition, the event will not impact a single facility but will affect communities and regions. These events will require planning beyond the individual hospital and will include all segments of supply and

points of care in a region. Hospitals must be self-reliant until Federal aid arrives, within 24–72 hours after Federal Emergency Management Agency (FEMA) has been contacted and the event has been declared a Federal disaster.

MEDICAL/SURGICAL SUPPLY FORMULARIES

Under this plan, medical/surgical supplies are separated into seven formularies and a staff formulary. It is important to note that these formularies are for medical/surgical supplies and do not include products for Radiology or Pharmacy. The Core Formulary has the basic supplies needed for each adult casualty in any type of disaster scenario. The Pediatrics Formulary includes the basic supplies needed for each pediatric casualty regardless of type of disaster. The remaining five specialty formularies are supplemental to the Core or Pediatric Formulary and include only the supplies specific to each type of disaster listed in the diagram below. In addition to patient formularies, the Staff Formulary contains the supplies needed for each hospital staff person.



CONSIDERATIONS FOR MATERIALS MANAGEMENT PROFESSIONALS

Hospital's Internal Supply Chain

Included in each hospital's plan should be the ability to redirect supplies already within the hospital's supply chain to the areas first impacted. Step one for Materials Management is to examine the hospital's internal supply chain. With clinical experts, the hospital units/departments should be identified that might be closed in the event of a large-scale disaster.

Materials Management should identify the supplies that might be diverted from these areas and routed to the first response areas. Also, stretchers from these areas should be identified, as many of the events will produce casualties beyond a single hospital's ability to provide available beds.



AHRMM

Association for Healthcare Resource & Materials Management of the American Hospital Association

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Working with Suppliers and Others

Materials Management must determine the amount of supplies to keep on hand until replenishment arrives. Each facility's disaster readiness team must investigate the best means for having quality supplies that are readily available. This determination is individual to each facility.

When working with suppliers, Materials Management should determine the length of time needed for delivery from the time of the first call. Additionally, the clinicians will need to determine the maximum number of casualties the hospital will be able to treat during this period of time. Based on the maximum number of casualties before suppliers' replenishments arrive and the amount of supplies that could be diverted from other areas of the hospital, Materials Management will be able to determine how much additional product must be kept on hand.

Essential to this plan is working with suppliers and establishing pre-event orders that can be activated with a single phone call or email. Each order will be specific to the individual hospital's needs by type of disaster using the supply formulary model. This preplanning also will help the suppliers maintain adequate inventory, which will assure that the pre-order can be delivered at any time with complete fill levels.

Other Critical Components

Since disaster scenarios of this size will exceed the hospital's ability to support casualties, it demands a community response plan. Work with local agencies, including fire fighters, public health department, Civil Defense, any offices of Emergency Preparedness, and other members participating in the Metropolitan Medical Response System as well as with other hospitals and healthcare providers that service the community. Cooperative agreements should be drafted among all the hospitals and healthcare providers for mutual support.

A single source of communication should be identified for the entire community, and each hospital should use this source to request additional supplies and to coordinate the flow of supplies to the areas most in need. With the possibility that every hospital is placing demands on supply sources, this coordination is imperative to prevent chaos.

This plan should be practiced with the community and community agencies to identify where the plan might need to be revised or strengthened. It is essential that the preparedness plan(s) be in place and tested soon. The real danger is not to plan for the unthinkable.

Disaster Supply Formularies

CORE FORMULARY

Instruments/Equipment

BP Cuffs, Disposable
BP Manometer
Batteries-AA, AAA, D, C,
1 gross per incident
Artificial Resuscitator Bag,
10% child, 5% infant

Sharps: ND/Syringes

10cc Needleless Syringes
60cc Needleless Syringes
3cc 23G1" Safety Syringes
3cc 22G1 1/2" Safety Syringes
TB Syringes
Insulin Syringes
Blunt Plastic Cannula
Lever Lock Cannula
18G 1 1/2" Safety Needles
20G 1" Safety Needles
Sharps Container
20G IV Start Catheter
18G IV Start Catheter
Winged Infusion Set 23GA
& 25GA

Irrigation Solutions

Normal Saline Irrigation Solution
2000cc
Sterile Water Irrigation Solution
2000cc

IV Access/Supplies

IV Start Kits
Micro Drip Tubing
Adult Drip Tubing
Blood Admin. Tubing
Disposable IV Pressure Bag
Metri Set Tubing
Arterial Line Tubing

IV Solutions

LR 1000cc
NS 1000cc
Central Vein Catheter Kit
Multi Lumen Central Catheter Kit
Long Arm Board
Short Arm Board
Stopcock

Linen

Disposable Sheets
Disposable Pillows
Disposable Pillow Covers

Hand Hygiene

Providine/Iodine Scrub Brushes
PCMX Scrub Brushes
(1 box per 100 casualties)

Patient Personal Care Supplies

Bath Basin
Emesis Basin
Facial Tissues
Bedpan
Urinal
Belonging Bag
Regular Soap
Mouth Care Supplies

Miscellaneous

Sterile Lubricant
Alcohol Wipes
PVP Wipes
Tongue Depressors
5 in 1 Connectors
Garbage Liners
Blood Glucose Testing Supplies
Waterproof Markers
Body Bag (25 per 100 casualties)
Blank Labels/Tags
Individual Bottled Drinking Water

PEDIATRIC FORMULARY

Instruments/Equipment

Disposable BP Cuffs-Neonatal,
Infant, Child, Small Adult
Artificial Resuscitator Bag Masks:
Ped, Infant

Patient Personal Care Supplies

Bath Basin
Cotton Swabs
Facial Tissues
Diapers
Pacifier
Belonging Bag
Cotton Balls

Respiratory System Supplies

Nasal Airways
Oral Airways
Oxygen Cannulas
Oxygen Masks

ER/Trauma/Surgical Supplies

Scalpel #11
Sutures (to be ordered individually
by box)
General Instruments Tray
Facial Suture Tray

Chest Drainage System
Buret Tubing 60 drops
Thoracostomy Tray
Chest Tubes (8, 10, 12, 24, 32)
Thoracic Catheter with Tubing
and Container
Sterile Towels
Sterile Sheets
Small Sterile Basins
Electrodes
Monitoring Electrodes

Dressings

Bandage Scissors
2X2 Dressings
4X4 Dressings
Adhesive IV Dressing
4" Bandage Rolls
1" Paper Tape
Adhesive Bandages

Linen

Disposable Sheets
Disposable Pillows
Disposable Pillow Covers

Muscle/Skeletal Supplies

Limb Restraints

GI System Supplies

Anti-Reflux Valve (10, 12, 14)
Feeding Tubes (5, 8)

Sharps: NDL/Syringes

Bulb Syringes
Safety Syringes (21, 25)
Filter Needles
Catheter Tip Syringe 60cc
Sharps Container
Luer Lock Syringes 20cc, 60cc
Syringes 1, 3, 5, 10cc

IV Access/Supplies

IV Start Kits
Stopcock
T-Connector
IV Start Catheter (18, 20,
22, 24)
Arm Boards - Infant, Child
Blood Administration Tubing
IV Filters (.22 micron, 1.2 micron)
Syringe Pump Tubing
Micro Drip Tubing

IV Solutions

Glucose Water
NS 10cc
NS 1000cc

Irrigation Solutions

Normal Saline Irrigation Solution
2000cc
Sterile Water Irrigation Solution
2000cc

Miscellaneous

Sterile Lubricant
Alcohol Wipes
Alcohol Swab Sticks
Tongue Blades
Heel Warmers
Tape Measure
Body Bag
Disposable Linen Savers
Safety Pins
Povidone Iodine Swab Sticks
Povidone Iodine Wipes
Hydrogen Peroxide
Individual Bottled Drinking Water

CHEMICAL

Respiratory System Supplies

ABG Kits
Nasal Airways (6.5, 7.0,
7.5, 8.0) 1 box per 100
Oral Airways (3, 4, 6)
1 box per 100
Oxygen Cannulas
Oxygen Masks
Yankauer Suction Tips
Connecting Tubing
Suction Kit/Cup 14FX22

GU System Supplies

Urine Multi-Stix
Foley Catheter Trays
Urometers

Irrigation Solution

Sterile Water Irrigation
Solution 3000cc

Miscellaneous

Disposable Sheet
Balanced Salt Solution

BIOLOGICAL

GU System Supplies

Urine Multi-Stix
Foley Catheter Trays
Urometers

Miscellaneous

50 Micron Mask
Stomach Tube

RADIOLOGICAL

GU System Supplies

Urine Multi-Stix
Foley Catheter Trays
Urometers

Irrigation Solution

Sterile Water Irrigation
Solution 3000cc

Miscellaneous

Disposable Sheet
Balanced Salt Solution

NUCLEAR

GU System Supplies

Urine Multi-Stix
Foley Catheter Trays
Urometers

Irrigation Solution

Sterile Water Irrigation
Solution 3000cc

Miscellaneous

Disposable Sheet
Balanced Salt Solution

EXPLOSIVE

GU System Supplies

Urine Multi-Stix
Foley Catheter Trays w/ Bags
Urometers

ER/Trauma/Surgical Supplies

Scalpel Blade Holder
(#3, #4)
Scalpel Blades
(#10, #11, #15, #20)
Disposable Safety Scalpel
(#15)
Suture Sets
Silk & Gut Sutures (ordered
in bulk by facility)
Thoracostomy Tray
Peritoneal Lavage Tray
Chest Tubes (12, 24, 28, 36)
Chest Drainage Tube with
Container
Sterile Towels
Sterile Sheets
Large Sterile Basin
Small Sterile Basin
Trocar Chest Tube
Skin Stapler
Electrodes
Tracheotomy Kit

Dressings

Bandage Scissors
Impregnated Dressing
3" Dressing
ABD Pads
4x4 Dressings

Self Adhering Dressing
4x4 Sponges
4" Bandage Rolls
3" Elastic Bandage
4" Elastic Bandage
6" Elastic Bandage
Sterile Cotton Applicators
2" Porous First Aid Tape
3" Porous First Aid Tape
Adhesive Bandages
1" Paper Tape

GI System Supplies

Piston Irrigation Sets
Gastric Lavage Kits
Anti-Reflux Valve (8, 12, 18)

Irrigation Solutions

Normal Saline Irrigation
Solution 2000cc
Sterile Water Irrigation
Solution 2000cc

Muscle/Skeletal Supplies

Medium Slings
Large Slings
Small Cervical Collars
Universal Cervical Collars
Knee Immobilizers
Wrist Restraints
Restraint Belts
OCL Splints Plaster
Plaster Impregnated Gauze
Roll 4"

STAFF

Hand Hygiene

Personal Hand Foam Sanitizer

Protective Gear

Sterile Gloves, All Sizes,
(1 box per 100 casualties)
Exam Gloves, Medium,
(1 box per 25 casualties)
Latex Free Gloves, Medium,
(1 box per 200 casualties)
Fluid Resistant Gowns
Masks
Goggles
Shields
Balanced Salt Solution for
Eye Wash
Isolation Gown
(4 per staff member)
Fluid Resistant Gowns
(1 per staff member)
Hair Cover
Liquid Scrub Soap
Individual Bottled Drinking
Water