

# Beaumont Laboratory Safety Review for Student Orientation

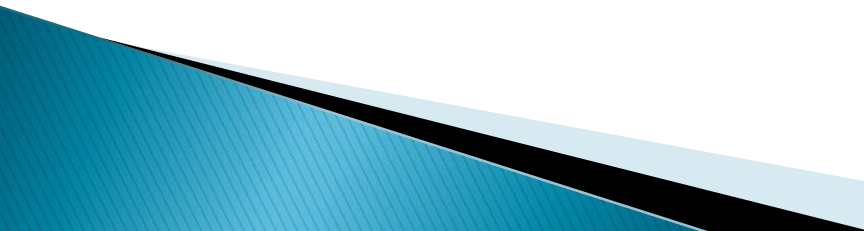
December, 2019

# Objectives

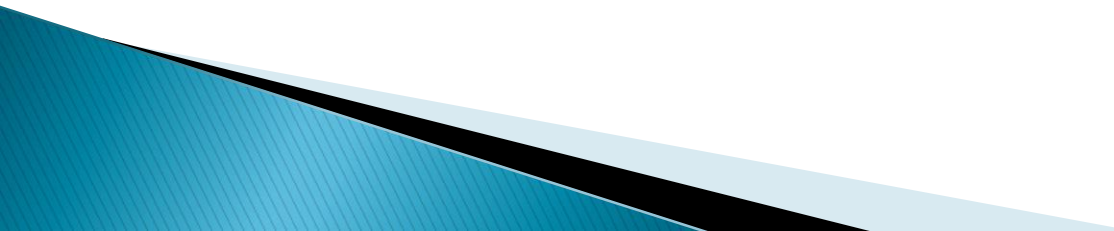
Upon review of this module, the MLS/Technologist student will be expected to:

- ▶ Locate Corporate Safety policies on the Beaumont intranet.
- ▶ Locate Laboratory Safety policies on the Beaumont intranet.
  - Bloodborne Pathogen Manual
  - Safety Manual
  - Chemical Hygiene Plan
- ▶ Explain recommended biohazard practices.
- ▶ Demonstrate correct use of PPE.
- ▶ Describe the **Michigan Right to Know Law** and the **Beaumont Hazard Communication Program**.
- ▶ Locate an SDS sheet given a particular chemical name.
- ▶ Locate chemical inventory and chemical hygiene practices in each laboratory section.
- ▶ Describe the **Emergency Management Plan** and associated reference tools.

# Motivators for Safety

- ▶ Concerns for Staff and Visitors
  - ▶ Compliance with regulatory & accrediting agencies
    - OSHA, EPA, DOT, DFA
    - CAP, Joint Commission
  - ▶ Consequences of accidents
    - Loss of staff due to injury (or death)
    - Loss of equipment or facilities due to damage
    - Liability
- 

# Beaumont-specific Topics

- ▶ Corporate & Laboratory Safety webpages
  - ▶ Laboratory Safety Manuals
  - ▶ Biohazard Waste and Sharps Disposal
  - ▶ Chemical Hazard Training
  - ▶ Hospital Emergency Management
    - Emergency Alert Codes
  - ▶ Mandatory Education Requirements
- 



# Corporate Safety Website

► Aka: **Occupational and Environmental Safety**

**Beaumont** Inside Beaumont Online

Search  Go

Documents Education Human Resources Departments Online Tools References Quality Service

Management Resources ►  
Clinical Resources ►  
Physician Resources  
Research Resources ►

**Occupational and Environmental Safety**

Chemical Spill Form  
Employee Safety Council  
Environment of Care Plans  
Joint Commission FAQs  
Safety Manual

## Occupational and Environmental Safety

The Occupational Safety and Environmental Health Department is responsible for monitoring compliance with various local, state, and federal regulations involving protection of the Hospital, Patients, Employees, Community and the environment.

**Royal Oak - Occupational Safety and Environmental Health**  
Mail Code: 112-ABW  
Phone: 55-17085  
Fax: 55-17481

### Meet the Occupational Health and Environmental Safety Team!

**Margaret Sipple, CHSP**  
Safety Coordinator - Interm Hospital Safety Officer, Royal Oak  
Ext. 55-11044  
[Margaret.Sipple@beaumont.org](mailto:Margaret.Sipple@beaumont.org)

- Publishing of the Safety Manual
- Management of Hazardous Waste Disposal
- Safety Data Sheets and Hazard Communication Program
- Indoor Air Quality
- Safety Department Home Page
- Safety Education and Training
- OSHA 300 Log Recordkeeping
- General Occupational Safety
- Liaison between the Detroit Water and Sewage Department

### New Chemical Spill Form is Online

[Fill out the new form](#)

[Eye Wash Operational Instructions](#)

### Quick Links

- [Safety Data Sheets \(SDS\)](#)
- [The Joint Commission Website \(Inside Beaumont\)](#)
- [Employee Injury/Illness Form \(former 553\)](#)
- [Green Team Website](#)

[Spill Policy](#)  
[Employee Safety Rep](#)  
[Questionnaire](#)  
[PPE Training Certificate](#)  
[PPE Hazard Assessment Form](#)

☒ [How to obtain a SDS Sheet \(cheat\)](#)  
☒ [Hazard Communication Standard](#)

### Reminders

# Laboratory Safety Website

Four major sections:

- ▶ Blood Borne Pathogens
- ▶ Safety Manual
- ▶ Chemical Hygiene Plan
- ▶ Chemical Inventory

The screenshot shows the 'Beaumont Inside Beaumont Online' website. The top navigation bar includes links for Home, Password, Paging, Directories, E-Mail, Microsoft, and Time Study. A search bar is located on the right. Below the navigation bar is a menu with categories: Documents, Education, Human Resources, Departments, Online Tools, References, Quality, and Service. The left sidebar lists various resources: Management Resources, Clinical Resources, Physician Resources, Research Resources, Beaumont Laboratory, Anatomic Pathology, Beaumont Laboratory Documents, Clinical Pathology, Lab Employee Communication, Lab Newsletters for Physicians, Lab Reference Guides, Laboratory Compliance, Laboratory Education, Laboratory Quality, Laboratory Safety, Specimen Collection Manual, Medical Staff Bulletins, Office - Administration, Outreach, and Phlebotomy. The main content area is titled 'Laboratory Safety' and features four sections: 'Blood Borne Pathogens', 'Safety Manual', 'Chemical Hygiene Plan', and 'Chemical Inventory'. Each section has a dropdown menu and a 'Go!' button. To the right of the main content area, there are three promotional boxes: 'Bullex Fire Extinguisher Training' with a link to view the training module, 'Hazard Communication' with links to the procedure and employee signature sheet, and 'Regulated Medical Waste' with a link to view a presentation on the usage of RED bins.

Beaumont Inside Beaumont Online

Home Password Paging Directories E-Mail Microsoft Time Study

Search  Go

Documents Education Human Resources Departments Online Tools References Quality Service

Management Resources  
Clinical Resources  
Physician Resources  
Research Resources

Beaumont Laboratory  
Anatomic Pathology  
Beaumont Laboratory Documents  
Clinical Pathology  
Lab Employee Communication  
Lab Newsletters for Physicians  
Lab Reference Guides  
Laboratory Compliance  
Laboratory Education  
Laboratory Quality  
Laboratory Safety  
Specimen Collection Manual  
Medical Staff Bulletins  
Office - Administration  
Outreach  
Phlebotomy

Laboratory Safety

Blood Borne Pathogens

Go!

[View All in Numerical Order](#)

Safety Manual

Go!

[View All in Numerical Order](#)

Chemical Hygiene Plan

Go!

[View All in Numerical Order](#)

Chemical Inventory

Go!

[View All in Numerical Order](#)

**Bullex Fire Extinguisher Training**

Click [here](#) to view the Bullex Fire Extinguisher Training Module.

**Hazard Communication**

- [Hazard Communication Procedure](#)
- [Hazard Communication Employee Signature Sheet](#)

**Regulated Medical Waste**

Click [here](#) for a presentation on the usage of the RED Regulated Medical Waste Bins.

# Blood Borne Pathogens

- ▶ Infection Control Policies
  - ▶ Clinical Pathology Specific Exposure Control Requirements
    - Chemistry / Hematology / Microbiology
  - ▶ Clinical Pathology Glove Use Policy
  - ▶ Personal Protective Measures Policy
- 

# Laboratory Safety Manual

- ▶ General Safety Topics:
  - Emergency Preparedness
  - Personnel Accidents
  - Electrical Safety in the Workplace
  - Fire Response and Evacuation
  - Fire Drills
  - Radiation Safety
  - Waste Disposal
  - Spill Clean-up
  - Personal Protective Measures
  - Use of Biosafety Level III Lab
  - Physical / Noise / Ergonomic Hazards

# Chemical Hygiene Plan

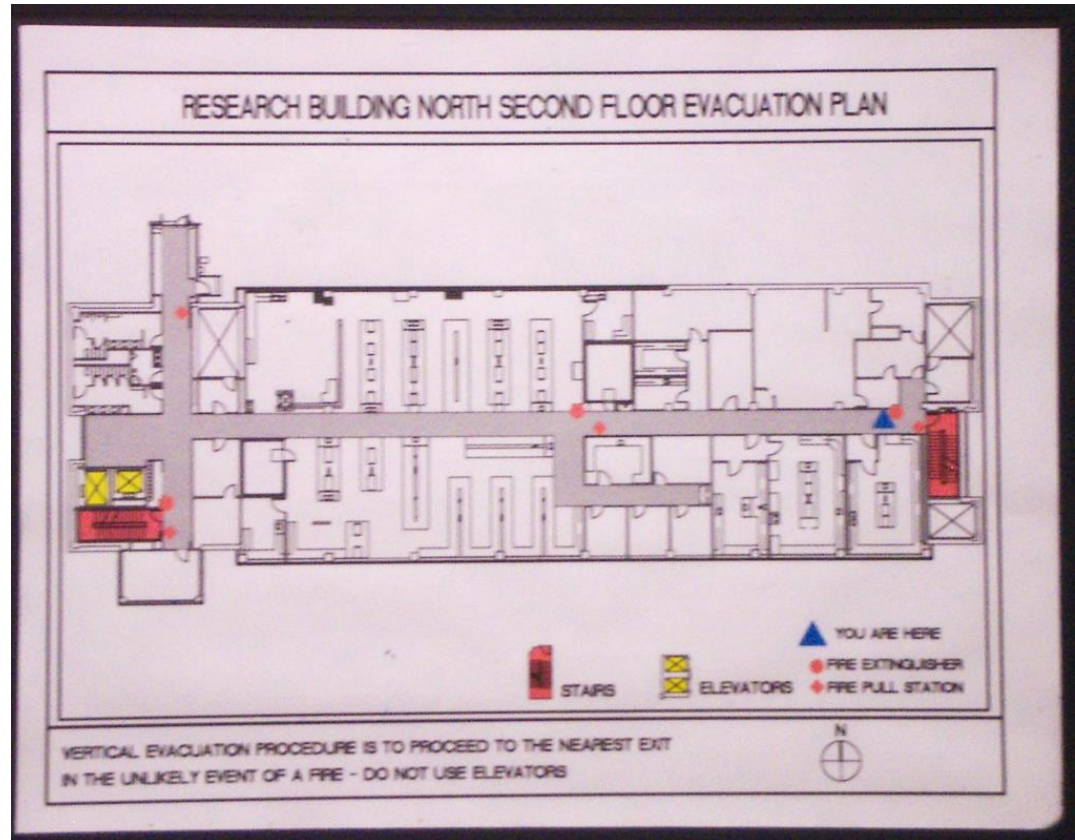
- ▶ What is a chemical hygiene plan?
  - Documents used to communicate the risk of exposure to chemicals
  - Contains procedures and protocols for safe handling, clean-up, storage and disposal of chemicals used in the laboratory
- ▶ Includes **Chemical Inventory** listings of hazardous chemicals in each laboratory

# Fire Safety



# Fire Safety includes:

- ▶ Staff training in proper use of a fire extinguisher
- ▶ Fire Drills
- ▶ Inspections
- ▶ Posted Evacuation Plans → → →
- ▶ R.A.C.E.
- ▶ P.A.S.S.



# Fire Safety – R.A.C.E.

## IF YOU DISCOVER A FIRE – REMEMBER:

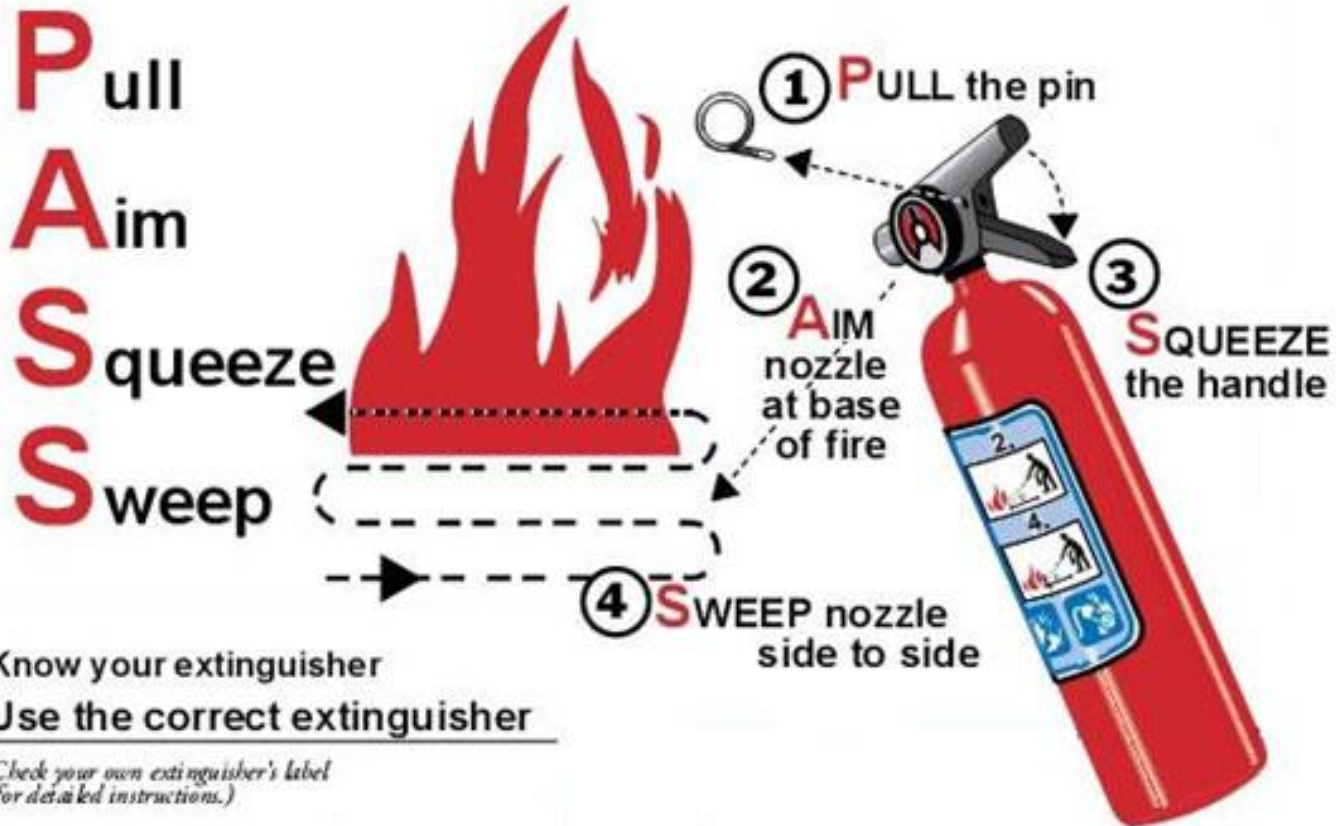
- **RACE**
- **R - RESCUE** anyone in immediate danger
- **A - Activate the ALARM**
- **C – CONFINE or CONTAIN** the fire (close the door)
- **E - EXTINGUISH** small controllable fires/or **EVACUATE**





# Fire Safety – P.A.S.S.

To operate an extinguisher:



# Hand Hygiene

# Hand Hygiene – Why?

## WHY HAND “HYGIENE”?

Hand “hygiene” includes the washing of hands with soap and water *or* the use of alcohol-based hand rub. Washing hands with soap and water is necessary when your hands are visibly soiled. At all other times, an alcohol-based hand rub is perfectly acceptable and has been approved by the Centers for Disease Control and Prevention (CDC).

## WHY SHOULD WE DO IT?

Healthcare workers, visitors and patients should perform hand hygiene routinely to protect themselves from acquiring infectious organisms and to prevent the spread of germs to others. Basically, hand hygiene, performed properly will help prevent the spread of infection.

## WHEN SHOULD HAND HYGIENE BE PERFORMED?

**Patients** should cleanse their hands before eating, after toileting, before and after self-care such as wound dressing changes and suctioning.

**Visitors** should cleanse their hands before putting on gloves and after removing them, before and after any hands-on contact with the patient and when leaving the patient’s room.

**Healthcare workers** should cleanse their hands before any hands-on contact with the patient, before and after wearing gloves, before and after blowing their nose, before eating or going on break, before and after going to the bathroom and after handling any potentially contaminated articles.

# Hand Hygiene – Which product and how long?

## HOW SHOULD HAND HYGIENE BE PERFORMED?

### **Alcohol-based hand rub**

(Hands should not be visibly soiled!)

1. Apply sufficient amount of alcohol-based hand rub (about the size of a golf ball) into the palm.
2. Rub hands together, working the alcohol-based hand rub around the fingernails, rings and over all surfaces of both hands. Keep rubbing until all surfaces are dry.
3. When hands are dry, the job is done. Do not wipe off with a towel. You're done with hand hygiene!

### **Handwashing with soap and water**

1. Make sure hand towel is available.
2. Wet hands under water. Apply one push of soap from the dispenser into palm of hand.
3. Lather and rub hands together, lathering around the fingernails, rings and over all surfaces of both hands for at least 15-20 seconds.
4. Rinse under running water.
5. Use paper towel to dry hands thoroughly.
6. Use same paper towel to turn off faucet.

# Hand Hygiene – alcohol-based or water?



## ALCOHOL-BASED HAND RUB OR SOAP AND WATER HANDWASHING

Alcohol-based hand rubs reduce the number of germs on the hands and cause less skin irritation and dryness than washing hands with soap and water.

Studies show that hand hygiene practices help prevent the spread of infections.

Handwashing with soap and water is necessary when hands are visibly soiled or feel “sticky.”

Alcohol-based hand rubs contain emollients (softening agents) to protect the skin from drying. Skin irritation may result when hands are washed with soap and water immediately after use of alcohol-based hand rub.



# Hand Hygiene Policy

## Beaumont

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Viewing: Hand Hygiene

## Table of Contents

[I. PURPOSE AND OBJECTIVE:](#)[II. POLICY STATEMENT:](#)[III. DEFINITIONS:](#)[IV. PROCEDURE:](#)[V. REFERENCES \(if applicable\):](#)Current Status: *Active*

PolicyStat ID: 6268912

# Beaumont

Origination: 01/2018  
Effective: 01/2018  
Last Approved: 01/2018  
Last Revised: 01/2018  
Next Review: 11/2020

Document Contact: [Brienne Bachman: Supv Clinical Infection Prev](#)

Area: [Infection Prevention and Epidemiology](#)

Key Words:  
Applicability: [Beaumont All Sites](#)

## Hand Hygiene

Document Type: Policy, Procedure

### I. PURPOSE AND OBJECTIVE:

Hand hygiene is the first line of defense in preventing healthcare-associated infections and transmission of pathogens and antibiotic resistance in healthcare settings. Hand hygiene is part of the overall goal to reduce infections and promote patient safety.

Surveillance for hand hygiene is performed using both covert and overt observations. Observers monitor hand hygiene practices on all units using standard definitions and data collection methods. Compliance is monitored using Beaumont's Hand Hygiene Quality Standard; "Always foam in, and foam out if anything was touched." This is the minimum expectation. Additional hand washing is encouraged.

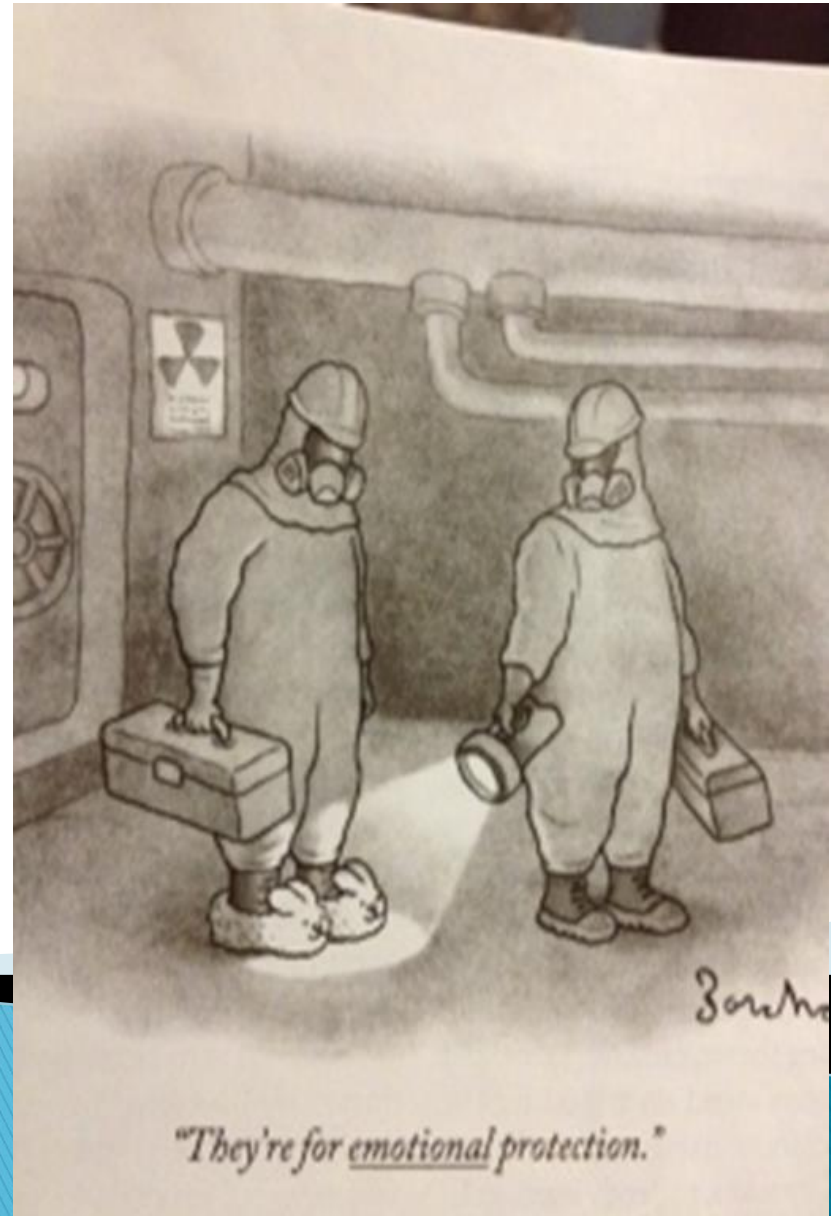
### II. POLICY STATEMENT:

Hand hygiene includes washing hands with soap and water, or using an alcohol-based hand rub (ABHR). For routine decontamination of hands, ABHR's have been found to be superior to

[? Help](#)

# Blood Borne Pathogen Infection Control

# PPE: Personal Protective Equipment

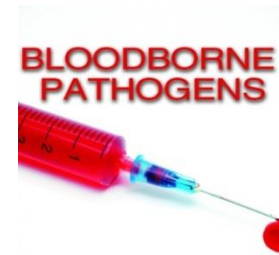




# CAP Accreditation Standard–

## GEN.74100 – PPE Provision and Usage (BBP)

- ▶ *Appropriate PPE (gloves, gowns, masks, eye protectors, etc.) is provided and maintained..”*
  - Fluid resistant gowns that will NOT permit blood/infectious material to pass through
    - In addition, wear an apron if lots of blood
  - Gloves: Change with each patient contact
  - Employer must provide PPE for employees at no cost
  - Employer must ensure that employee uses PPE



# CAP Accreditation Standard – –

## GEN.74200 – PPE Instruction (BBP)

- ▶ *“Personnel are instructed in the proper use of personal protective clothing/equipment (e.g. gloves, gowns, masks, eye protectors, footwear) and records are maintained.”*



# Glove Use in Lab

- Nitrile
- Properly fitted
- Replace gloves immediately when to grossly contaminated
- Don't touch clean surfaces with contaminated gloves (e.g., door knobs, etc.)
- Don't wash or disinfect gloves for reuse
- Use of hypoallergenic gloves when needed
- Remove before leaving lab
- Decontaminate hands after glove removal
  - Need clean sink
  - Use soap and water for contaminated hands
- Not needed for closed-sample transport



# Clinical Pathology Glove Policy

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## CLINICAL PATHOLOGY GLOVE USE POLICY

BHS.SA.BBP.005.r04

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### Policy

In order to provide adequate protection from exposure to pathogens or hazardous chemicals in the Clinical Pathology laboratory, it is essential that personal protective equipment (PPE) be available and used properly. Gloves are an important item of PPE, which must be worn in prescribed circumstances and should be used according to the following guidelines. Specific directives regarding glove use can be found in other documents such as the Clinical Pathology Safety Manual and Chemical Hygiene Plan, or the hospital Infection Control Policy. This policy is intended to consolidate all these directives into a single source and add information about proper glove removal.

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### Glove Types

1. **Nitrile or vinyl:** Appropriate for handling specimens of blood or other body fluids and tissues, dry chemicals and dilute aqueous solutions.
2. **Chemical resistant neoprene:** Appropriate for handling concentrated acids, bases and most organic solvents.
3. **Household rubber:** Appropriate for use with strong cleaners or detergents including bleach solutions for decontaminating benchtops.

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### Glove Use

1. Always ensure that gloves fit properly. They should not be loose or extend beyond the fingertips.
2. Check gloves for obvious tears or punctures before and after putting them on.
3. Immediately replace gloves if they become torn or punctured during use.
4. DO NOT wash nitrile or vinyl gloves which become contaminated with blood or body fluids. Washing increases the permeability of these gloves and increases the risk of exposure.
5. DO wash chemical contamination off chemical resistant gloves before removal. These gloves are not affected by washing with ordinary soaps or detergents and water.
6. Dispose of nitrile or vinyl gloves in the proper biohazard containers after use and DO NOT reuse them.
7. Wash hands after removal of contaminated gloves.

# Glove Doffing (Removal)

## CLINICAL PATHOLOGY GLOVE USE POLICY

5. Gloves do not need to be worn when transporting specimens in bags or other types of sealed containers.

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### Glove Removal

1. Remove one glove by peeling it off the hand by the cuff so it becomes turned inside out.
2. Place it in the palm of the remaining gloved hand.
3. Remove the second glove by peeling it off the hand over the first glove so it becomes turned inside out with the other glove inside it.
4. Discard the gloves into a proper container.

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### Chemical Resistant Neoprene

1. Rinse or wash any chemical contamination off the gloves.
2. Remove each glove by peeling the cuff down the hand until the glove can be pulled off by the fingertips.
3. Restore the gloves with the outside out.
4. Allow to dry before storing.

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### Authorized Reviewers

This procedure is monitored by the Beaumont Laboratory Safety Committee.

Laboratory Safety Officer

Chair, Pathology and Laboratory Medicine

Beaumont Laboratory Medical Directors, Grosse, Pointe, Royal Oak, Troy, W. Bloomfield,  
Farmington Hills

Medical/ Technical Director, Microbiology, R.O.


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# Glove Doffing



# Infection Control Resources

**World Health Organization**

**Patient Safety**  
A World Alliance for Safer Health Care

**SAVE LIVES**  
**Clean Your Hands**

## Glove Use Information Leaflet

### Outline of the evidence and considerations on medical glove use to prevent germ transmission

**Definitions**

Medical gloves are defined as disposable gloves used during medical procedures; they include:

1. Examination gloves (non sterile or sterile)
2. Surgical gloves that have specific characteristics of thickness, elasticity and strength and are sterile
3. Chemotherapy gloves – these gloves are not addressed within this document

The impact of wearing gloves on adherence to hand hygiene policies has not been definitively established, since published studies have yielded contradictory results. However, the recommendation to wear gloves during an entire episode of care for a patient who requires contact precautions, without considering indications for their removal, such as an indication for hand hygiene, could actually lead to the transmission of germs.

**Key learning point:** prolonged use of gloves for contact precautions in the absence of considering the need to perform hand hygiene can result in the transmission of germs.

### Rationale for using medical gloves:

Medical gloves are recommended to be worn for two main reasons:

1. To reduce the risk of contamination of health-care workers hands with blood and other body fluids.
2. To reduce the risk of germ dissemination to the environment and of transmission from the health-care worker to the patient and vice versa, as well as from one patient to another.

### Glove use and the need for hand hygiene:



- When an indication for hand hygiene precedes a contact that also requires glove usage, hand rubbing or hand washing should be performed *before donning gloves*.
- When an indication for hand hygiene follows a contact that has required gloves, hand rubbing or hand washing should occur *after removing gloves*.
- When an indication for hand hygiene applies while the health-care worker is wearing gloves, then gloves should be *removed to perform handrubbing or handwashing*.

# Infection Control Resources


## Do's & Don'ts

### DO'S AND DON'TS FOR WEARING GLOVES IN THE HEALTHCARE ENVIRONMENT

#### Types of gloves encountered in the healthcare setting

<b>STERILE GLOVES</b> Indicated for performing any sterile procedure including but not limited to vaginal delivery, invasive radiological procedure, central vascular device dressing change, and accessing implanted central venous access ports.	
<b>NON-STERILE GLOVES</b> <i>(e.g., nitrile, latex, medical vinyl)</i> Indicated in situations when there is potential for contact with infectious material <i>(e.g., blood, other body fluids, microorganisms)</i> .	
<b>NON-MEDICAL GLOVES</b> <i>(e.g., vinyl)</i> May be used for food handling and some housekeeping procedures <i>(e.g., cleaning and disinfection)</i> .	
<b>UTILITY GLOVES</b> <i>(e.g., facility, maintenance, central sterile processing)</i> Used for manual cleaning of instruments and decontamination with harsh chemicals.	

Do	Don't
✓ <b>DO</b> wear gloves to reduce the risk of contamination or exposure to blood, other body fluids, hazardous materials, and transmission of infection.	✗ <b>DON'T</b> re-use or wash gloves (except for utility gloves after being properly cleaned).
✓ <b>DO</b> clean hands before putting on gloves for a sterile procedure (e.g., insertion of catheter or other invasive device).	✗ <b>DON'T</b> substitute glove use for hand hygiene.
✓ <b>DO</b> clean hands after removing gloves.	✗ <b>DON'T</b> use non-approved hand lotions.
✓ <b>DO</b> clean hands and change gloves between each task (e.g., after contact with a contaminated surface or environment).	✗ <b>DON'T</b> use gloves if they are damaged or visibly soiled.
✓ <b>DO</b> make sure that gloves fit you properly before performing any tasks.	✗ <b>DON'T</b> touch your face when wearing gloves.
✓ <b>DO</b> ensure the correct type of glove is available if you have skin sensitivity or allergy issues.	✗ <b>DON'T</b> wear the same pair of gloves from one patient to another.
✓ <b>DO</b> wear gloves in hemodialysis settings for any contact with the patient or the patient's equipment.	✗ <b>DON'T</b> wear gloves in the hall; consult your facility's policy for exceptions.
✓ <b>DO</b> follow your facility's policy on glove use and remember to consult CDC* and WHO* hand hygiene guidance.	✗ <b>DON'T</b> forget to remove and dispose of gloves properly.


**APIC**  
Association for Professionals in Infection Control and Epidemiology

- CDC
- OSHA
- APIC



# PPE in Labs

- ▶ Gown, aprons, other protective clothing
  - Fluid resistant gown (apron, also, if needed)
    - White cloth lab coat NOT acceptable
  - **Wear only in lab**
  - Employer is responsible for buying, cleaning, laundering, disposing, replacing
    - No cost to employee
  - Other = surgical caps/hoods, shoe coverings/boots, etc.



# CAP Accreditation Standard – –

## GEN.76300 – PPE and Hazardous Materials

(CHP – Chemical Hygiene Plan)

- ▶ *“Personnel use the proper personal protective devices when handling corrosive, flammable, biohazardous, and carcinogenic substances.”*
  - *“Shoes or shoe covers must protect the entire foot in areas where splashing is expected.”*
  - **Use chemical splash goggles with hazardous materials**
    - Eyeglasses, safety goggles, or face shields alone are not acceptable



# PPE in Labs

## ▶ Face shields

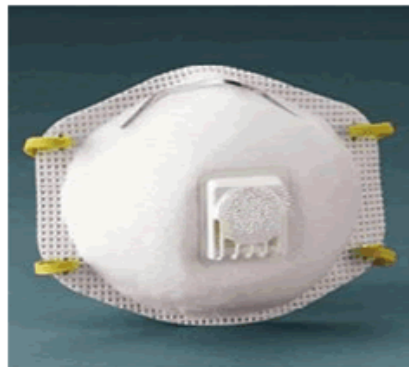
- Required when there is a possibility that splashes, spray, spatter, droplets, dust, hazardous material may get in the eyes
  - Blood, body fluids
- Must cover eyes, nose, and mouth
- Regular glasses NOT acceptable



# CAP Accreditation Standard – –

## GEN.74900 (TB Exposure) PPE Provision and Usage

- ▶ Infectious agent exposure by aerosol or droplet:
  - NIOSH approved (US) N-95 or higher filter respirator, or
  - Powered air-purifying respirator (PAPRS)
    - With HEPA filters
  - **Accurate fit testing**
    - Training



# Footwear in Laboratory Areas

## ▶ Footwear = Dress Code

- Not PPE under OSHA interpretation of the standard
- Must meet safety needs of the work environment
- Safety requirement for all hospital personnel
- See Corporate HR policy 280 for more information

## ▶ Footwear Requirements

- Fully Enclosed
  - No open toes/heel/weave/holes
- Impermeable (All leather or plastic)
  - Non-absorbent, Easy to wipe off (i.e. no mesh on shoe tongue)
- Slip Resistant
  - Non-slippery sole





# Biohazard Waste Disposal



# Laboratory “Sharps”

- Dispose into hard plastic, biohazard labeled containers with lids.
- Includes:
  - Needles/ syringes
  - Glass slides
  - Glass or hard plastic pipettes
  - Wooden Sticks



# Biohazard, non-sharp waste

Visibly bloody  
or body fluid  
contaminated  
gauze,  
Kimwipes™  
and/or  
soft  
plastic  
transfer  
pipettes.





**Note:**  
**Red / or**  
**Orange Bag –**  
**they are one in**  
**the same**

**Stericycle**  
Protecting People. Reducing Risk.

(866) 338-5120  
www.Stericycle.com

## REGULATED MEDICAL WASTE

These **DO** go in the red bag:

*Contaminated:*

- Visibly Bloody Gloves
- Visibly Bloody Plastic Tubing
- Visibly Contaminated PPE
- Saturated Gauze
- Saturated Bandages
- Blood Saturated Items
- Closed Disposable Sharps Containers

*Special handling and marking may be required for:*

- Certain Pathological Waste\*
- Trace-Chemotherapy\*

### These **DON'T** go in the red bag:

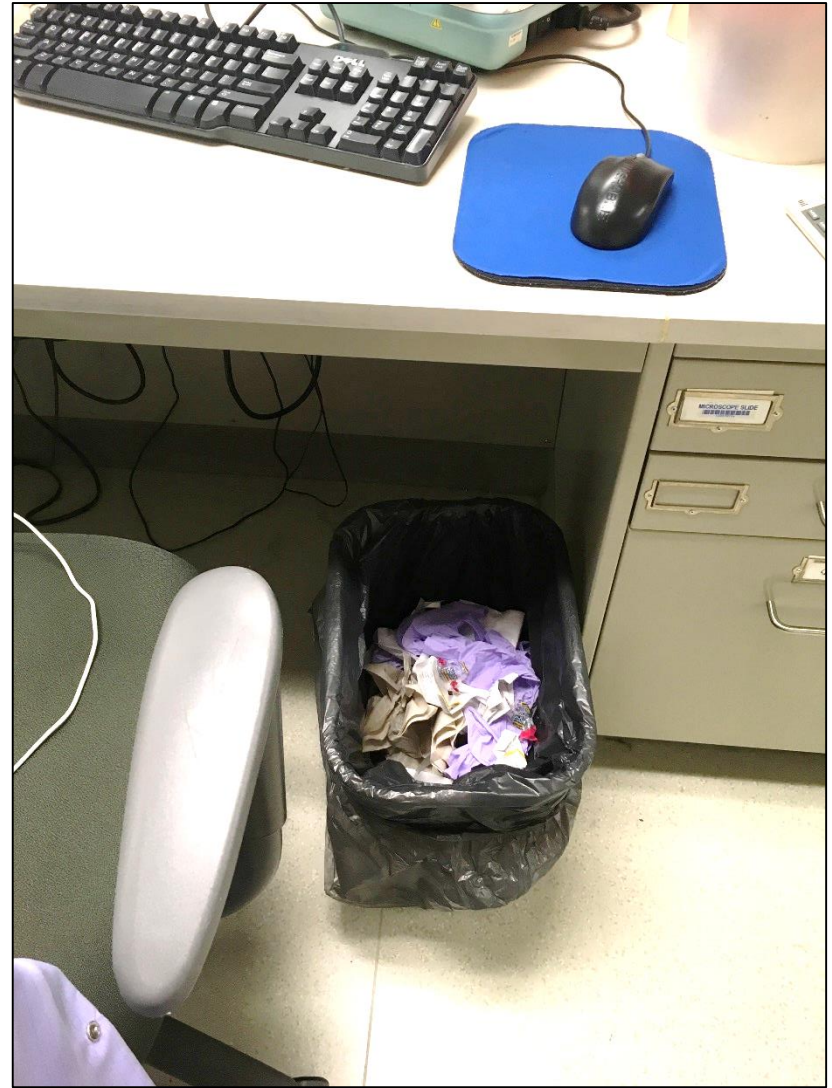
 Medication*	 Garbage	 Loose Sharps	 Fluorescein	 Cauterizers
 Batteries of Any Type	 Hazardous and Chemical Waste	 Compressed Gas Cylinders	 Fixatives and Preservatives	 Radioactive Waste

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\*Please check with your local state regulations.

# Regular Trash

- ▶ Non-visibly, bloody:
  - Gloves
  - Gauze
  - Kimwipes
  - Paper towels
  - Disposable lab coats



# Workspace Decontamination

## Disinfectant Wipes



**Dispatch® Bleach**

**WHITE TOP**

- 1:10 Bleach
- Kills *C. difficile*

**5 Min Contact Time**



**Sani-Cloth® AF3**

**GRAY TOP**

- Alcohol-Free Quat

**3 Min Contact Time**



**Sani-Cloth® HB**

**GREEN TOP**

- Alcohol-Free Quat

**10 Min Contact Time**



**Sani-Cloth® Plus**

**RED TOP**

- Low-Alcohol Quat

**3 Min Contact Time**

**Housekeeping Disinfectant: Morning Mist**

**10 Minute Contact Time**



# Chemical Hygiene Plan & Hazard Communication Training



# Topics to be Covered

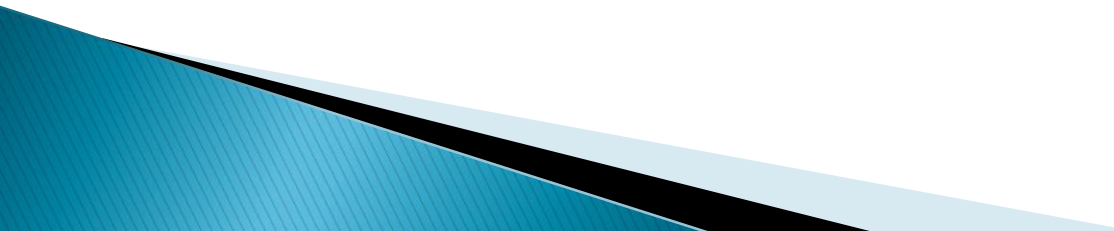
- ▶ **Michigan Right to Know Law**
- ▶ **Hazard Communication Program**
- ▶ Safety Data Sheets (SDS)
- ▶ Labeling of Hazardous Chemicals
- ▶ SDS Availability Poster
- ▶ Labeling System of Hazardous Chemicals
- ▶ Chemical Inventory, Hygiene, Transport
- ▶ Spill PPE and Clean Up

## OFFICE SAFETY TIPS A GUIDE FOR MINIONS





# Michigan Right to Know Law

- ▶ Chemical manufacturers must evaluate hazards of chemicals they produce
  - ▶ Employees must be provided with information via a hazard communication program on the chemicals in their specific work area that pose either a physical or health hazard
  - ▶ The program must include information on chemical labeling, location of safety data sheets (SDS's), and employee training on the proper use, handling and emergency equipment for spill clean-up, if needed
- 

# Beaumont Hazard Communication Program

- ▶ The Beaumont **Hazard Communication Program** requires employees receive training on:
  - Review of U.S. & [Michigan Right to Know Laws](#)
  - SDS Location
  - Chemical Labeling
  - Personal Protective Equipment (PPE)
  - Spills and Emergency Equipment
  - Department-Specific Chemicals

# Beaumont Hazard Communication Program

- ▶ **Employee responsibilities include:**
  - **Obey all safety rules:**
    - Proper handling, usage and storage
    - Proper labeling of secondary containers
  - **Know critical information:**
    - List of chemicals in your work area
    - Location of SDS, PPE, & First aid supplies
    - Location of Spill Kits & other emergency equipment
  - **Inform Supervisor if:**
    - Accident/spill
    - Missing labels on primary containers



# Safety Data Sheets (SDS)

- ▶ These are manufacturer technical bulletins containing detailed information such as:
  - Chemical composition of a product
  - Physical and health hazards
  - Precautionary procedures for avoiding accidents
  - Emergency and first aid procedures in the event of an accident

**SDS's contain much more information than the product labels!**



# SDS Availability Poster

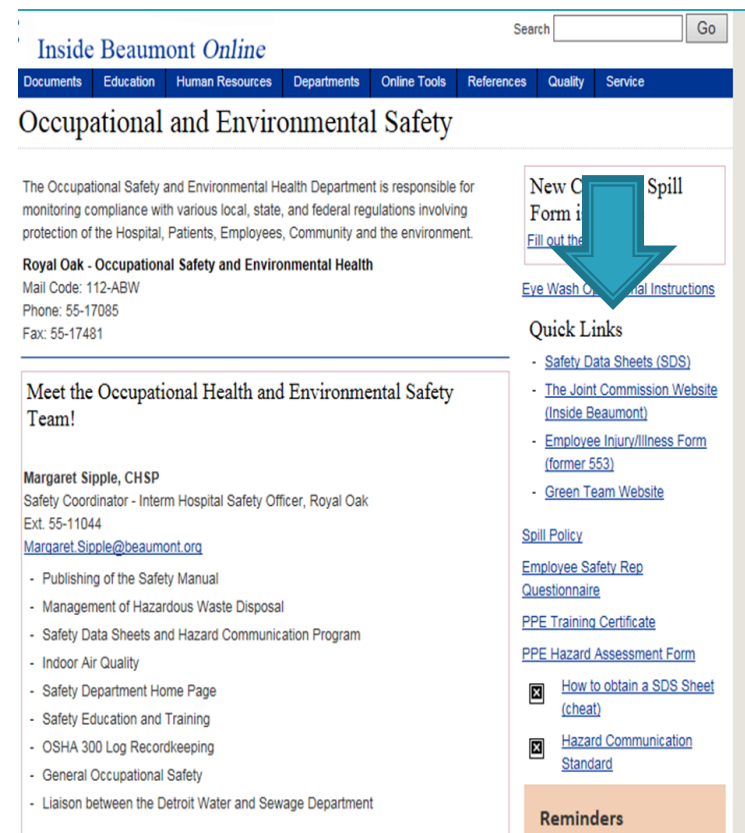
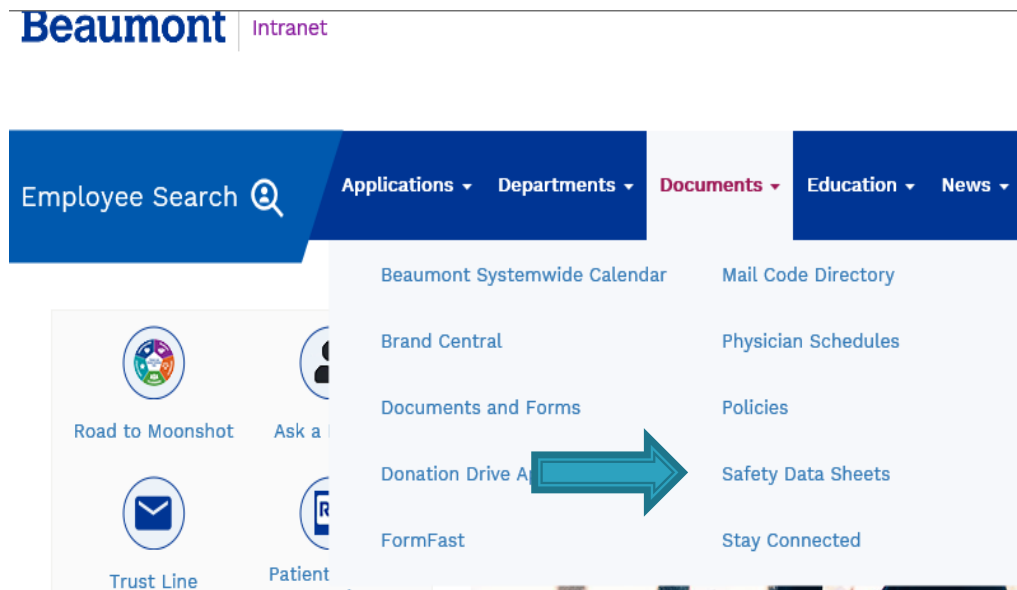
<p><b>This Workplace Covered by the Michigan Right To Know Law</b></p> 	<p><b>LARA</b> LICENSING AND REGULATORY AFFAIRS CUSTOMER DRIVEN. BUSINESS MINDED.</p>
<p>Employers must make available for employees in a readily accessible manner, Safety Data Sheets (SDS)* for those hazardous chemicals in their workplace.</p> <p>Employees cannot be discharged or discriminated against for exercising their rights including the request for information on hazardous chemicals.</p> <p>Employees must be notified and given direction (by employer posting) for locating Safety Data Sheets and the receipt of new or revised SDS(s).</p> <p>*When the employer has not provided a SDS, employees may request assistance in obtaining SDS from the:</p> <p>Michigan Department of Licensing and Regulatory Affairs Michigan Occupational Safety &amp; Health Administration General Industry Safety &amp; Health Division (517) 322-1831 Construction Safety &amp; Health Division (517) 322-1856 <a href="http://www.michigan.gov/miosha">www.michigan.gov/miosha</a> MIOSHA/CET #2105 (Rev. 01/13)</p> 	<p><b>SDS(s) For This Workplace Are Located At</b></p> <p><b>Inside Beaumont Online</b> Location(s) Under references Safety Data Sheets Location(s)</p> <p>Margaret Sipple, Safety Coordinator Person(s) responsible for SDS(s)</p> <p>248-551-1044 Phone</p> <p>In the event the computers are down call: 1-888-362-7416 for FAX ON DEMAND</p> <p><i>LARA is an equal opportunity employer/program.</i></p>

The **Michigan Right to Know Law** also requires posters be displayed with guidelines on where to locate SDS for the workplace.



# How do I find links to Safety Data Sheets (SDS)?

1. Beaumont Intranet > Documents > SDS
2. Occupational & Environmental Safety website > Quick Links



# SDS Search:

1. Type key words from product name into Search bar

The screenshot displays the MSDSonline web application interface. At the top left is the 'Beaumont HEALTH' logo. At the top right is the 'MSDSonline' logo with the tagline 'a velocityDS solution'. Below the logos are two tabs: 'Safety Center' and 'MSDS Search', with the latter being selected. On the left side, there is a sidebar with a minus sign icon, 'All Products', 'Manufacturers', and 'MSDSonline Search'. The main content area is titled 'All Products' and shows a search bar with the text 'hydrochloric acid'. A large blue arrow points from the 'All Products' title to the search bar. Below the search bar, a dropdown menu lists search results with their respective counts:

Search Result	Results Count
HYDROCHLORIC ACID	50 Results
HYDROCHLORIC ACID SOLUTION	20 Results
Hydrochloric acid solution, 1N	2 Results
Hydrochloric acid, Trace Metal Grade	2 Results
Hydrochloric acid standard solution, 0.2 N	1 Result
Hydrochloric Acid ACS/Trace Metal	1 Result
HYDROCHLORIC ACID ACS REAGENT	1 Result
Hydrochloric Acid 0.773N to 2.5N	1 Result
Hydrochloric acid 0.1n standard solution	1 Result
Hydrochloric Acid 0.01 to 2.0N	1 Result

At the bottom of the interface, there is a status bar showing 'AQUASONIC 100 ULTRASOUND TRANSMISSION' and the date '09/01/2009'.

## 2. Click on PDF symbol to view SDS

Safety Center

MSDS Search

All Products

Manufacturers

MSDSonline Search

### All Products





Hydrochloric acid solution, 1N

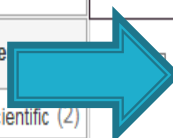
Product name starts with: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 0-9 #+=

2 Products

x Hydrochloric acid solution, 1N

Export Sort By: Product Name A > Z


Narrow Results		Product	Revision Date	Product CAS #	C
<div>- By Manufacturer</div> <div><input type="checkbox"/> Thermo Fisher Scientific (2)</div> <div>- By Language</div>	<div> GHS+</div> <div></div> <div></div> <div></div>	<div><b>Hydrochloric acid solution, 1N</b></div> <div>Muriatic acid solution; Hydrogen chloride solution (Certified)</div> <div><b>Manufacturer:</b> Thermo Fisher Scientific Fisher Scientific International</div>	10/28/2014	7647-01-0	



### 3. Note the various sections and information provided

	<b>Fisher Chemical</b>	<b>SAFETY DATA SHEET</b>	
Creation Date 02-Mar-2009		Revision Date 25-Apr-2017	Revision Number 7
<b>SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING</b>			
<u>1.1. Product identification</u>			
Product Description:	Hydrochloric acid, 1M, (1N)		
Cat No. :	J/4320/15, J/4320/24, J/4320/17, J/4320/21		
Synonyms	Muriatic acid ; Hydrogen chloride ; HCl		
<u>1.2. Relevant identified uses of the substance or mixture and uses advised against</u>			
Recommended Use	Laboratory chemicals.		
Uses advised against	No information available		
<u>1.3. Details of the supplier of the safety data sheet</u>			
Company	Fisher Scientific UK Bishop Meadow Road, Loughborough, Leicestershire LE11 5RG, United Kingdom		
E-mail address	begel.sdsdesk@thermofisher.com		
<u>1.4. Emergency telephone number</u>			
	Tel: 01509 231166 Chemtrec US: (800) 424-9300 Chemtrec EU: 801 (202) 460-7010		

<b>SECTION 2: HAZARDS IDENTIFICATION</b>	
<u>2.1. Classification of the substance or mixture</u>	
<u>CLP Classification - Regulation (EC) No 1272/2008</u>	
<u>Physical hazards</u>	
Substances/mixtures corrosive to metal	Category 1 (H290)
<u>Health hazards</u>	
Based on available data, the classification criteria are not met	
<u>Environmental hazards</u>	
Based on available data, the classification criteria are not met	

<b>SAFETY DATA SHEET</b>		Revision Date 25-Apr-2017
Hydrochloric acid, 1M, (1N)		
		
Signal Word	Warning	
<u>Hazard Statements</u>		
H290 - May be corrosive to metals		
<u>Precautionary Statements</u>		
P234 - Keep only in original container		
P390 - Absorb spillage to prevent material damage		
<u>2.3. Other hazards</u>		
No information available		

### 3. Note the various sections and information provided – cont.

#### SECTION 4: FIRST AID MEASURES

##### 4.1. Description of first aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
Ingestion	Do not induce vomiting. Obtain medical attention.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.

FSUJ4320

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#### SECTION 5: FIREFIGHTING MEASURES

##### 5.1. Extinguishing media

###### Suitable Extinguishing Media

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

###### Extinguishing media which must not be used for safety reasons

No information available.

##### 5.2. Special hazards arising from the substance or mixture

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

###### Hazardous Combustion Products

Hydrogen chloride gas.

##### 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

##### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

##### 6.2. Environmental precautions

Avoid release to the environment. See Section 12 for additional ecological information.

##### 6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

##### 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.



### 3. Note the various sections and information provided – cont.

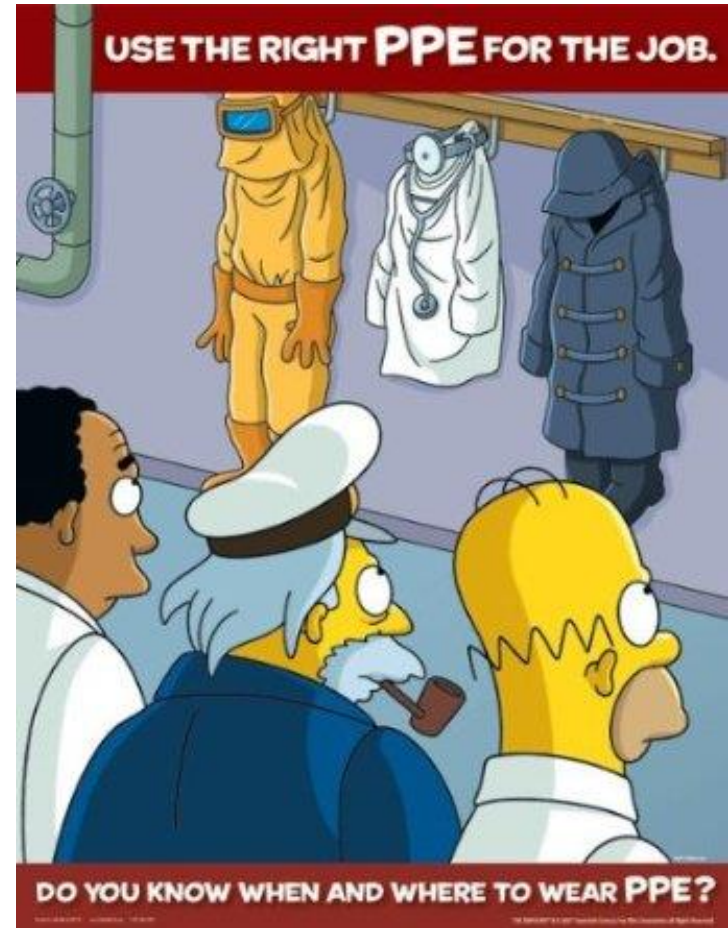
SECTION 11: TOXICOLOGICAL INFORMATION			
<u>11.1. Information on toxicological effects</u>			
Product Information			
(a) acute toxicity:			
Oral	Based on available data, the classification criteria are not met		
Dermal	Based on available data, the classification criteria are not met		
Inhalation	Based on available data, the classification criteria are not met		
<u>Toxicology data for the components</u>			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrochloric acid	238 - 277 mg/kg ( Rat )	> 5010 mg/kg ( Rabbit )	1.68 mg/L ( Rat ) 1 h
Water	-		
(b) skin corrosion/irritation;	No data available		
FSUJ4320			
Page 7 / 11			

SAFETY DATA SHEET	
Hydrochloric acid, 1M, (1N)	Revision Date 25-Apr-2017
(c) serious eye damage/irritation;	No data available
(d) respiratory or skin sensitization;	
Respiratory	No data available
Skin	No data available
(e) germ cell mutagenicity;	No data available
(f) carcinogenicity;	No data available
	There are no known carcinogenic chemicals in this product
(g) reproductive toxicity;	No data available
(h) STOT-single exposure;	No data available

# Personal Protective Equipment

- ▶ Safety Data Sheets even provide information regarding the proper use of PPE such as:
  - Gloves
  - Gowns
  - Eye and Face Protection
  - Respiratory Protection



# How to Obtain a Lab Department-specific Chemical Inventory

**Beaumont**  
HEALTH

Inside Beaumont Online

DocumentsEducationHuman ResourcesDepartmentsOnline ToolsReference

Management Resources  
Clinical Resources  
Physician Resources  
Research Resources

**Laboratory Safety**

Beaumont Laboratory  
Anatomic Pathology  
Beaumont Laboratory Documents  
Clinical Pathology  
Lab Employee Communication  
Lab Newsletters for Physicians  
Lab Reference Guides  
Laboratory Compliance  
Laboratory Education  
Laboratory Quality  
Laboratory Quality Education  
Laboratory Safety  
Specimen Collection Manual

Safety Manual

Go!

[View All in Numerical Order](#)

Chemical Hygiene Plan

Go!

[View All in Numerical Order](#)

**Chemical Inventory**

Go!

[View All in Numerical Order](#)

- [GP 73040 - Anatomic Pathology Office](#)
- [GP 73040 - Histology/Cytology/Dock](#)
- [GP 73173 - Blood Bank](#)
- [GP 73180 - Chemistry](#)

# Chemistry – Grosse Pointe example

## CHEMICAL INVENTORY FORM

1

William Beaumont Hospital, Area: Grosse Pointe Chemistry RC: 73180

Extension: 1807

Verified by: Kathy Cousineau Date: 08/16/2017

CHEMICAL NAME	FORMULA/ COLOR INDEX NUMBER	Vendor Number	Manufacture/ Supplier Name	Quantity on Hand (L/g) monthly	P h y s i c a l S t a t	HAZARDS				Location	D i s p o s a l	PP E/ Eng ineer ing Co ntr ol	Tar get Org ans	COMMENT (Storage or use requirement; Alternate names, spill kit used.)
						E	H	P	R					
VISTA REAGENTS														
Vista AMM Rgnt		K3119	SIEMENS	7 BX	L	1,2,3,4	4	0	0	Frig 12	H	G		
Vista ALB Rgnt		K1013	SIEMENS	5 BX	L	1,2,3,4	4	0	0	Frig 12	H	G		
Vista ALPI Rgnt		K2115	SIEMENS	7 BX	L	1,2,3,4	4	0	0	Frig 12	H	G		
Vista ALTI(SGPT) Rgnt		K2143	SIEMENS	6 BX	L	1,2,3,4	4,6	0	0	Frig 12	H	G		
Vista AMY Rgnt		K3017	SIEMENS	2 BX	L	1,2,3,4	4	0	0	Frig 12	H	G		
Vista AST(SGOT) Rgnt		K2041	SIEMENS	3 BX	L	1,2,3,4	4	0	0	Frig 12	H	G		
B-HYDROXYBUTYRATE Rgnt		2440-058	STANBIO	4 BX	L	1,2,3,4	4	0	0	Frig 13	H	G		
TDM/B- HYDROXYBUTYRATE		2460-60s	STANBIO	4 BX	L	1,2,3,4	4	0	0	Frig 13	H	G		
Vista BUN Rgnt		K1021	SIEMENS	12 BX	L	1,2,3,4	4	0	0	Frig 12	H	G		
Vista CA Rgnt		K1023	SIEMENS	12 BX	L	1,2,3,4	4	0	0	Frig 12	H	G		

### (E) ROUTE OF ENTRY

- 1 - Inhalation
- 2 - Skin Absorption
- 3 - Ingestion
- 4 - Skin or Eye Contact

### DISPOSAL

- E - Evaporation in hood
- H - Hazardous Waste
- R - Recycle
- S - Sink with normal effluent
- T - Trash

### (H) HEALTH HAZARDS

- 0 - No Health Hazard
- 1 - Toxic
- 2 - Highly Toxic
- 3 - Reproductive Toxin
- 4 - Irritant
- 5 - Corrosive
- 6 - Sensitizer
- 7 - Carcinogen

### PHYSICAL STATE

- G - Gas
- L - Liquid
- S - Solid

\* Insoluble in water - absorbed with porous inert material.

### (P) PHYSICAL HAZARDS

- 0 - No Physical Hazard
- 1 - Combustible Liquid
- 2 - Compressed Gas
- 3 - Oxidizer
- 4 - Flammable Gas
- 5 - Explosive
- 6 - Flammable Liquid/Solid
- 7 - Pyrophoric
- 8 - Organic Peroxide
- 9 - Water Reactive
- 10 - Unstable (Reactive)

### (R) REACTIVITY

- 0 - Stable and not reactive with water
- 1 - Unstable if heated
- 2 - Violent chemical change
- 3 - Shock and heat may detonate
- 4 - May detonate

### PPE/ENGINEERING CONTROL

- D = Double or Thick Glove
- F = Face Shield
- G = Gloves, Gown, Goggles
- H = Hood
- M = Mask
- R = Respirator
- S = Splash Guard
- T = Thermal Gloves

### LOCATION

- A = Acid Cabinet
- B = Flammable Cabinet
- C = Oxidizer Cabinet
- D = Chemical/Dye Cabinet
- E = Sink Cabinet
- F = Fume Hood
- G = Refrigerator (4° C)
- H = Freezer (-20° C)
- I = Freezer (-70° C)
- J = Other location (specify)


### SPILL KITS

- A = Acid Kit
- B = Caustic or Base Kit
- S = Solvent Kit
- Chlorine Control

### TO = TARGET ORGAN

- B - Blood
- CNS - Central Nervous System
- CV - Cardiovascular
- E - Eyes
- GI - Gastrointestinal
- H - Heart
- K - Kidney
- L - Liver
- Lu - Lung
- MM - Mucous Membranes
- NS - Autonomic Nervous System
- R - Respiratory
- Sk - Skin










# Labeling System for Hazardous Chemicals

- ▶ **Labels are essential!**
  - ▶ **Inspect all labels for clarity and completeness**
  - ▶ **Labels should list product's ingredients and specify the chemical's physical and health hazards**
  - ▶ **A label is required when the chemical is transferred from a primary to secondary container**
- 



# Global Harmonized System Pictograms

## HCS Pictograms and Hazards

<b>Health Hazard</b>  <ul style="list-style-type: none"> <li>• Carcinogen</li> <li>• Mutagenicity</li> <li>• Reproductive Toxicity</li> <li>• Respiratory Sensitizer</li> <li>• Target Organ Toxicity</li> <li>• Aspiration Toxicity</li> </ul>	<b>Flame</b>  <ul style="list-style-type: none"> <li>• Flammables</li> <li>• Pyrophorics</li> <li>• Self-Heating</li> <li>• Emits Flammable Gas</li> <li>• Self-Reactives</li> <li>• Organic Peroxides</li> </ul>	<b>Exclamation Mark</b>  <ul style="list-style-type: none"> <li>• Irritant (skin and eye)</li> <li>• Skin Sensitizer</li> <li>• Acute Toxicity (harmful)</li> <li>• Narcotic Effects</li> <li>• Respiratory Tract Irritant</li> <li>• Hazardous to Ozone Layer (Non-Mandatory)</li> </ul>
<b>Gas Cylinder</b>  <ul style="list-style-type: none"> <li>• Gases Under Pressure</li> </ul>	<b>Corrosion</b>  <ul style="list-style-type: none"> <li>• Skin Corrosion/ Burns</li> <li>• Eye Damage</li> <li>• Corrosive to Metals</li> </ul>	<b>Exploding Bomb</b>  <ul style="list-style-type: none"> <li>• Explosives</li> <li>• Self-Reactives</li> <li>• Organic Peroxides</li> </ul>
<b>Flame Over Circle</b>  <ul style="list-style-type: none"> <li>• Oxidizers</li> </ul>	<b>Environment (Non-Mandatory)</b>  <ul style="list-style-type: none"> <li>• Aquatic Toxicity</li> </ul>	<b>Skull and Crossbones</b>  <ul style="list-style-type: none"> <li>• Acute Toxicity (fatal or toxic)</li> </ul>

# NFPA Hazard Identification






## NFPA Rating Explanation Guide

### HEALTH HAZARD

- 4 = Can be lethal
- 3 = Can cause serious or permanent injury
- 2 = Can cause temporary incapacitation or residual injury
- 1 = Can cause significant irritation
- 0 = No hazard

### FLAMMABILITY HAZARD

- 4 = Will vaporize and readily burn at normal temperatures
- 3 = Can be ignited under almost all ambient temperatures
- 2 = Must be heated or high ambient temperature to burn
- 1 = Must be preheated before ignition can occur
- 0 = Will not burn

- ALK = Alkaline
- ACID = Acidic
- COR = Corrosive
- OX = Oxidizing
-  = Radioactive
-  = Reacts violently or explosively with water
-  = Reacts violently or explosively with water and oxidizing

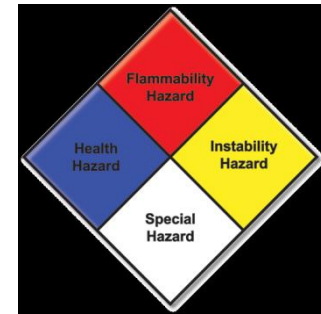
### SPECIAL HAZARD

- 4 = May explode at normal temperatures and pressures
- 3 = May explode at high temperature or shock
- 2 = Violent chemical change at high temperatures or pressures
- 1 = Normally stable. High temperatures make unstable
- 0 = Stable

### INSTABILITY HAZARD

*This chart for reference only - For complete specifications consult the NFPA 704 Standard*

# Example NFPA Hazard Identification



## TRIETHYLENE GLYCOL

### HEALTH HAZARD

4 Deadly  
3 Extreme Danger  
2 Hazardous  
1 Slightly Hazardous  
0 Normal Material

### FIRE HAZARD

Flash Points  
4 Below 73° F  
3 Below 100° F  
2 Below 200° F  
1 Above 200° F  
0 Will not burn

### SPECIFIC HAZARD

Oxidizer	OX
Acid	ACID
Alkali	ALK
Corrosive	COR
Use NO Water	W
Radioactive	☢

### REACTIVITY

4 May detonate  
3 Shock and heat may detonate  
2 Violent chemical change  
1 Unstable if heated  
0 Stable



### WARNING

CAUSES IRRITATION. HARMFUL OR FATAL IF SWALLOWED.  
HARMFUL IF INHALED OR ABSORBED THROUGH SKIN.  
AVOID CONTACT WITH EYES, SKIN, CLOTHING. AVOID  
BREATHING VAPOR.

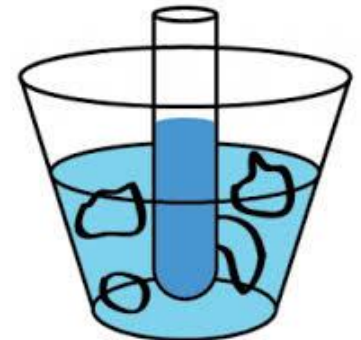
# Employee Responsibility to:

## KNOW critical information:

- ▶ Location of SDS, PPE, & First aid supplies
- ▶ List of chemicals in your work area
- ▶ Proper handling & storage of chemicals
- ▶ Location of Spill Kits & other emergency equipment
- ▶ Spill Reporting process
  - online link via [Occupational Health & Safety](#) webpage
- ▶ Employee Health Injury Report process
  - online link via [Employee Health & Safety](#) webpage

# Know the Proper Handling of Chemicals

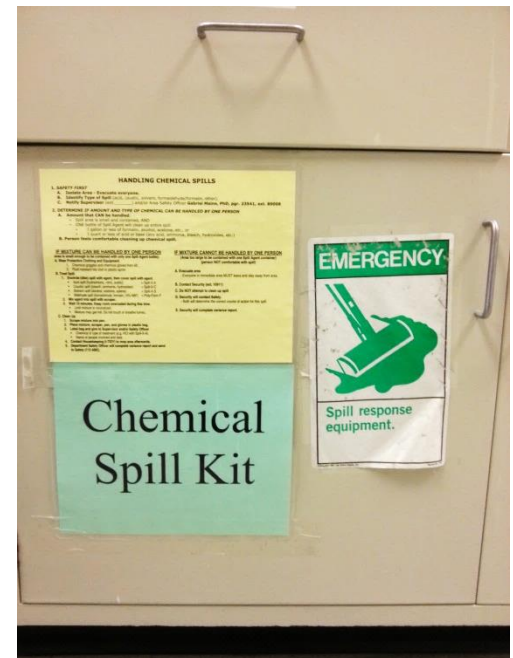
- ❖ Always transport chemicals safely
- ❖ Refer to procedures for specific instructions





# Know the Location of Spill Kits in the Event of a Spill

- ▶ **Located in each specimen testing laboratory**
  - Review the exact location(s) at your campus.
- ▶ Directions are posted on the cabinet door that holds the spill kit.
- ▶ Also, refer to:
  - Policy 1550 – Spill Response Plan
  - Procedure SA.SM.011r01 – Spill Cleanup
- ▶ Use appropriate spill kit to:
  - Neutralize & contain the spread of spill
  - Clean up treated chemical
- ▶ Inform Supervisor
- ▶ Call Security



# Know the Proper PPE for Spill Clean-up

- ▶ **Protective clothing and equipment include:**
  - Chemical goggles from kit that seal face
  - Heavy nitrile gloves from kit
  - Fluid resistant lab coat or plastic apron



# Know the Proper Spill Neutralizing Agent

- ▶ Example:
  - Acid Spill Agent (Spill X-A)
- ▶ Use on the following acid spills:
  - Hydrochloric acid
  - Sulfuric acid
  - Nitric acid



*\*Ingredients: Magnesium Oxide, Sodium Carbonate, Sodium alkyl-naphthalenesulfonate*

# Know the Proper Storage of Chemicals

- ▶ Always store chemicals in designated areas as determined by your Safety officer
- ▶ Chemicals should be stored based on their specific hazards



Boom Room



Acid Cabinet



Flammable Cabinet



Regular Cabinet /  
Supply Shelf

# What should I do if I have questions about a product?

- ▶ Refer to the Safety Data Sheet
- ▶ Review section-specific protocols in the Chemical Hygiene Plan
- ▶ Ask your clinical instructor or lab manager about anything that is unclear





# Spill Report Form

## Inside Beaumont Online

Documents Education Human Resources Departments Online Tools References Quality Service

## Occupational and Environmental Safety

The Occupational Safety and Environmental Health Department is responsible for monitoring compliance with various local, state, and federal regulations involving protection of the Hospital, Patients, Employees, Community and the environment.

### Royal Oak - Occupational Safety and Environmental Health

Mail Code: 112-ABW

Phone: 55-17085


Fax: 55-17481


### New Chemical Spill Form is Online

[Fill out the new form](#)

[Eye Wash Operational Instructions](#)

### Quick Links










Chemical Spill Form	
Chemical	
Chemical Name*	<input type="text"/>
Reagents / Ingredients	<input type="text"/>
Amount	<input type="text"/>
Spill Information	
Date of Spill*	<input type="text"/> 
Time of Spill	<input type="text"/>
Campus*	<input type="text"/>
Location	<input type="text"/>
Person(s) Involved & Role in Incident	
<input type="text"/>	
Person(s) Exposed	

# Employee Illness Injury Report: Beaumont Intranet > Applications









The screenshot shows the Beaumont Health intranet home page. At the top, a dark blue navigation bar contains the text 'Employee Search' followed by a magnifying glass icon, and a series of dropdown menus: 'Applications', 'Departments', 'Documents', 'Education', 'News', 'Nursing', 'Quality', and 'Services'. The 'Applications' dropdown menu is open, displaying a list of links. The link 'Employee Health Incident Reporting Login' is circled in pink. To the left of the dropdown menu, there is a pink box with the text 'Power is out at' and a grid of icons for various services like 'Road to Moonshot', 'Trust Line', and 'About Us'. Below the grid, there is a section titled 'EVENTS' with a link to 'Walmart/Sam's Club'. At the bottom of the page, there is a pink arrow pointing to the right, towards the 'Report an Injury' link in the 'I WANT TO...' section. The 'I WANT TO...' section is a grey box with a white border, containing the text 'I WANT TO...' and two links: 'Report an Injury' and 'Compose Message'. The 'Report an Injury' link is highlighted with a blue square icon.

# Hospital Emergency Management Plan

# Beaumont Emergency Codes

OVERHEAD ANNOUNCEMENT	DESCRIPTION	RESPONSE
 <b>CODE RED</b>	Fire	<ul style="list-style-type: none"> <li>• <b>R</b>escue – <b>A</b>larm – <b>C</b>ontain – <b>E</b>vacuate/<b>E</b>xtinguish</li> <li>• <b>P</b>ull – <b>A</b>im – <b>S</b>queeze – <b>S</b>weep</li> <li>• Do not use elevators</li> <li>• Return to department/assigned area</li> </ul>
 <b>MEDICAL ALERT</b>	Medical emergency	<ul style="list-style-type: none"> <li>• Call site medical number</li> <li>• Initiate BLS care if trained to do so</li> </ul>
 <b>SEVERE WEATHER ALERT</b>	Tornado watch/warning; any type of severe weather	<ul style="list-style-type: none"> <li>• Close curtains, move away from windows to protected area</li> <li>• Follow instructions for patient movement if announced</li> </ul>
 <b>SECURITY STAT</b>	Physical management situation	<ul style="list-style-type: none"> <li>• Protect self, visitors and patients from harm</li> <li>• Avoid location until All Clear is announced</li> </ul>
 <b>CODE BLACK</b>	Bomb threat	<ul style="list-style-type: none"> <li>• Search announced area/location</li> <li>• Report any unusual items immediately – do not disturb them</li> <li>• Evacuate as directed by Security</li> </ul>
 <b>AMBER ALERT</b>	Missing child (patient or visitor)	<ul style="list-style-type: none"> <li>• Secure all exits, conduct search for missing infant/child</li> <li>• Contact Security if sighted</li> </ul>
 <b>EXTERNAL INCIDENT EXTERNAL INCIDENT - HAZMAT</b>	Hospital has been notified of large influx of casualties from a single incident. HAZMAT announced if patients require decontamination	<ul style="list-style-type: none"> <li>• Return to department/assigned area</li> <li>• Initiate department specific mass casualty protocols</li> <li>• Avoid decontamination area unless properly trained</li> </ul>

# Emergency Codes – cont.

SECURITY ALERT +			
	<b>ACTIVE VIOLENCE/ SHOOTER</b>	Can include any type of violence/weapon	<ul style="list-style-type: none"> <li>Secure immediate area until All Clear given</li> <li>If in affected area – <b>Run, Hide, Fight</b></li> </ul>
	<b>ELOPEMENT</b>	Missing patient under elopement precautions	<ul style="list-style-type: none"> <li>Call site Security number</li> <li>Conduct search, notify Security if patient located</li> </ul>
	<b>LOCKDOWN</b>	Situation requiring Security to temporarily limit the movement of staff, patients and visitors within the facility	<ul style="list-style-type: none"> <li>Full lockdown – all facility access points closed</li> <li>Partial lockdown – controlled access to facility, entrance/exit from announced area only</li> <li>Unit specific – no entrance/exit to unit</li> </ul>
	<b>MISSING VULNERABLE ADULT</b>	Missing cognitively impaired adult (visitor only)	<ul style="list-style-type: none"> <li>Search work area for missing adult</li> <li>Contact Security if sighted</li> </ul>
FACILITY ALERT +			
	<b>SYSTEM/UTILITY FAILURE</b>	Failure of IT application or utility. Specific system or utility will be announced after Facility Alert	<ul style="list-style-type: none"> <li>Follow response procedure for announced system</li> </ul>
	<b>CODE ORANGE</b>	Internal hazardous spill	<ul style="list-style-type: none"> <li>Prohibit anyone from entering area</li> <li>Contact Security</li> <li>All staff – avoid announced area of spill</li> </ul>
	<b>EVACUATION</b>	Specific unit/area or full facility will be announced	<ul style="list-style-type: none"> <li>Leave immediate area if unsafe</li> <li>Return to department or work area for further instructions</li> </ul>
	<b>ALL CLEAR</b>	Previously announced incident has ended	<ul style="list-style-type: none"> <li>Return to normal operations</li> </ul>



# Emergency Management Quick Reference Guide

- ▶ Red, hard-copy wall guide posted in each department
- ▶ Includes room to add custom notes and review dates for your work area



## Beaumont Health - Hospital Emergency Management

The Emergency Management Quick Reference Guide was designed to assist you during emergencies. This guide is to be kept in a visible area so that it is readily accessible when needed. It may also be used to answer questions from inspectors or surveyors during regulatory or accreditation surveys.

It is each employee's responsibility to be familiar with the information contained in this guide.

Each area is responsible for maintaining and documenting their department/unit-specific emergency procedures in this guide.  
All staff must know how to access the safety manual, safety data sheets, or SDS, and emergency operations plan, or EOP.

Reviewed by Department \_\_\_\_\_

Date and Department Manager initials  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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**Beaumont**

INTRODUCTION

# Emergency Management Quick Reference Guide

- ▶ Contains detailed response guidelines for each emergency code or situation

### Active Violence/Shooter

**DEFINITION:**


- **Active shooter** – a person with a firearm is threatening or shooting people inside the building or on facility property
- **Active violence** – a person with a lethal weapon (non-firearm) is threatening or attacking people inside the building or on facility property


**CALL/NOTIFY:**

- **Emergency services** (9-911 by hospital phone, 911 by cellphone)
- **Security** - inform Security of location and type of weapon if able

**Notification:** Overhead announcement and/or text page, additional messages as directed by Security or law enforcement

**Security Alert + Active Violence/Shooter + <location>**



**ACTIVE VIOLENCE/SHOOTER**

## Active Violence/Shooter

### RUN

Leave area quickly and quietly if possible. Guide others to safety.

If there is an accessible escape path, attempt to evacuate the premises:

- evacuate regardless of whether others agree to follow
- leave belongings behind
- help others escape, if possible
- prevent individuals from entering an area where the active shooter may be
- keep your hands visible once outside
- follow the instructions of any law enforcement officers
- do not attempt to move victims
- call 911 when you are safe

### HIDE

If evacuation is not possible, find a place to hide and:

- secure the door or place something in front of it (in patient rooms, move patient bed against door and lock wheels)
- turn off lights, silence phones and other electronics
- remain quiet
- do not open the door until an "All Clear" has been announced or as directed by arriving law enforcement

### FIGHT

As a last resort, and only when your life is in imminent danger, attempt to disrupt and/or incapacitate the active shooter by:

- throwing items; books, pens, clipboards, charts, fire extinguisher, chairs and improvising weapons
- acting aggressive toward them
- committing to your actions

# Emergency Management Quick Reference Guide

- ▶ Also available on [BH Intranet > Departments](#)

[Home](#) / [Emergency Preparedness](#)

## Emergency Preparedness

[Corporate Emergency Operations Plan](#)

### Beaumont Emergency Code Reference Information

**Hospitals**

- [quick reference guide](#)
- [emergency code poster](#)

**Ambulatory/Business Locations**

- [quick reference guide](#)
- [emergency code poster](#)

# SUMMARY

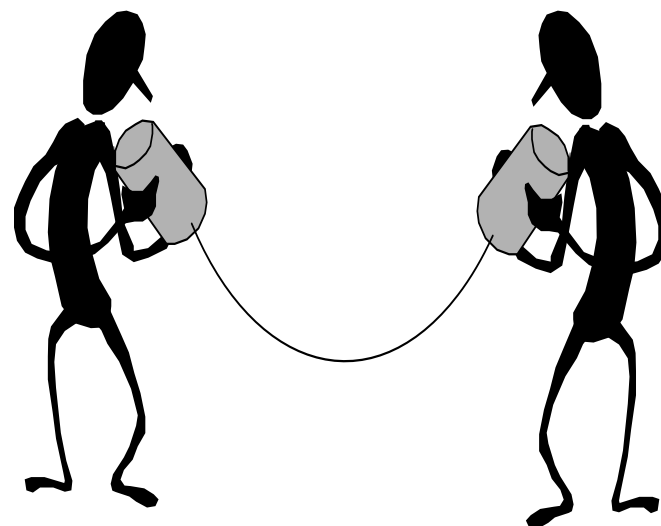
# You Have a Right To Be Safe!

- ▶ If you have a concern, talk with someone on-site:

- Instructor / Program Director / Lab Manager
- Lab Safety Officer
- Pathologist
- Lab Manager
- Lab Compliance Officer
- Institution Compliance Officer
- Safety Department

- ▶ Outside (*if no one takes care of concern*):

- OSHA, EPA, DOT
- CAP, JC





# NEXT STEPS:

1. On-line mandatory education in HealthStream™ LMS
  - a) Corporate
  - b) Laboratory-specific
2. Complete the **Laboratory Safety Training Checklist** with links to Beaumont Intranet resources  
*(you must be using a Beaumont pc to complete)*
3. **Optional:** Student safety reading assignments posted in SharePoint
  - Review topics that catch your attention that you would like to know more information about.
4. Due: **Monday of Week 2**

# Additional Fun Review

- ▶ View the “**Use Your Safety Eyes!**” presentation in SharePoint to see if you can identify the various safety hazards. 😊

**Use Your Safety Eyes!**  
What's wrong with this picture?

