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		Key Words	GEN.20310

## Laboratory Employee Incident Investigation and Root Cause Analysis

**Document Type: Procedure** 

## I. PURPOSE AND OBJECTIVE:

This document identifies the process to follow for employee incident investigations and root cause analysis in the laboratory.

## **II. GENERAL INFORMATION:**

- A. Employees must follow the Beaumont Human Resources (HR) Employee Health and Safety policy Work Related Injury and Illness for reporting incident events that resulted in employee injury or illness. The on-line reporting form can be found on the Beaumont Intranet website under the menu option "Application". The form is titled "Employee Health Incident Reporting login". If the employee is unable to report the incident to HR, then the employee's Manager/ Supervisor/designee will access the form and record the injury or illness on behalf of the employee.
- B. Beaumont Laboratory employees must report work place incidents to their Manager/ Supervisor when an injury, illness, possible exposure or near misses has occurred.
- C. The incident follow-up investigation and root cause analysis (RCA) focuses on the event, the process and systems involved. It is important to closely examine the event, capturing as many facts as possible. The goal is to eliminate/minimize exposure incidents.
- D. The Laboratory Incident Investigation and Root Cause Analysis (RCA) form should be used to

document the investigation and RCA. The Manager/Supervisor/designee should include the involved employee and, if applicable, the campus Laboratory Safety Officer in the analysis, after the employee returns to work duty, following a work place injury or illness.

**Note**: For patient care/testing sentinel and near miss events, report the incident through the Beaumont Patient Safety Reporting system (RL Solutions). The Beaumont Quality department will assist in patient related RCA and process improvement, when appropriate. <u>RL Solutions Quality/Safety Report Instructions</u>

### III. DEFINITIONS:

- Incident a work related event in which an injury, illness or fatality occurred or could have occurred.
- B. Near miss events an unplanned event that did not result in injury, illness, or damage, but had the potential to do so had the circumstances been slightly different.
- C. Non-conforming events events that do not conform with the organization's established policies, processes, or procedures; with applicable regulatory or accreditation requirements; or have the potential to affect (or have affected) patient safety, employee safety or the efficiency and effectiveness of laboratory operation.
- D. Personal Protective Equipment (PPE) refers to protective clothing, helmets, gloves, face shields, goggles, face-masks and/or respirators or other equipment designed to protect the wearer from injury or the spread of infection or illness.
- E. Root Cause Analysis (RCA) is a quality tool to help aid in the discovering of the underlying cause(s) of the incident. A series of "what, how, where, and why" questions are asked during the investigation.
- F. Sentinel Event Safety event that results in death, permanent harm, or severe temporary harm.

### IV. PROCEDURE:

- A. Sentinel event, injury or illness event: If the employee incident resulted in death, permanent harm, severe temporary harm, the employee's Manager/Supervisor/designee will inform the Beaumont Laboratory Director, System Quality/Safety Manager, Hospital Safety Director, and HR Employee Health. The employee's Manager/Supervisor/designee will initiate an investigation and root cause analysis (RCA). Refer to the Beaumont policy: <u>Serious Safety</u> <u>Events</u>.
  - The incident event must be documented on the HR Employee Health Incident Reporting form. This can be done by the employee's Manager/Supervisor/designee if the employee is unable to access the form.
  - 2. The manager/Supervisor/designee will document the incident on the Laboratory Incident Investigation and RCA form.
- B. Non-sentinel event or near miss: If the incident resulted in a non-sentinel event or a near miss, the Manager/Supervisor/designee will determine the extent of the investigation and follow-up for the incident.
  - 1. The incident should be documented on the HR Employee Health Incident Reporting

- form. This can be done by the employee's Manager/Supervisor/designee if the employee is unable to access the form.
- 2. The Manager/Supervisor/designee may document the employee incident on the Laboratory Incident Investigation and RCA form.
- The Manager/Supervisor/designee may arrange to include the campus Laboratory Safety Officer to participate in the investigation and RCA along with the involved employee.

# C. Manager/Supervisor/designee documents the following on the Laboratory Incident Investigation and RCA form:

- Event Information: Collect event information through discussion with the involved employee. For example, date/time of event, where event occurred, employee(s) who were involved in the incident.
- Evidence Collection: Any incident evidence should be preserved, if possible. For example, a defective box of gloves.
- Training Record Review: Review employee training and competency records for the
  task or procedure related to the incident. For example, if the event involved disposing
  of chemicals, review the employee's training record for chemical education and
  disposal.
- 4. Detailed Description of Incident: Engage in a thorough discussion of the incident event that includes events leading up to, during, and after the incident. Employee should include what device/equipment/action was involved in the task or procedure.
- 5. RCA: For non-sentinel events, the Manager/Supervisor/designee will determine if a RCA and process improvement is required for the incident. If a RCA and process improvement is deemed appropriate, then the involved employee, and if possible, the campus Laboratory Safety Officer can assist the Manager/Supervisor/designee. The "5 Why-Why technique" along with a series of what, how, and where questions can be asked to determine the underlying cause of the incident.
- 6. Process Improvement: After the RCA is completed, determine if any process improvements or risk reduction should be implemented to help prevent similar events in the future. The process improvement discussion may include the employee directly involved in the incident, other department employees and the campus Laboratory Safety Officer. The goal is to implement process changes, improve forms, policy change, retraining, or other safety improvements to facilitate a safe working environment and to prevent similar events in the future.
- Storage of the completed Laboratory Incident Investigation and RCA form: The Manager/Supervisor/designee retains the original copy and a copy is sent to the campus Laboratory Safety Officer and the System Quality/Safety manager.
- D. Communicating the investigation and RCA report: Manager/Supervisor/designee will notify the Laboratory Director, the System Quality/Safety Manager, and the campus Safety Officer about the incident investigation, RCA, and process improvement. The campus Safety Officer should review the event at the Laboratory Safety Committee meeting.

## **V. REFERENCES:**

Occupational Safety and Health Administration Incident Investigation

OSHA: A systems approach to help prevent injuries and illness

College of American Pathologists (CAP) Lab General Checklist, Current Version

#### **Attachments**

Laboratory Incident Investigation and RCA form.pdf

### **Approval Signatures**

Step Description	Approver	Date
CLIA Site Licensed Medical Directors	Vaishali Pansare: Chief, Pathology	11/17/2022
CLIA Site Licensed Medical Directors	Muhammad Arshad; Physician	11/9/2022
CLIA Site Licensed Medical Directors	Ann Marie Blenc: System Med Dir, Hematopath	11/8/2022
CLIA Site Licensed Medical Directors	Jeremy Powers: Chief, Pathology	11/4/2022
CLIA Site Licensed Medical Directors	Kurt Bernacki: System Med Dir, Surgical Path	11/3/2022
CLIA Site Licensed Medical Directors	Ryan Johnson: OUWB Clinical Faculty	11/3/2022
CLIA Site Licensed Medical Directors	John Pui: Chief, Pathology	11/3/2022
Policy and Forms Steering Committee Approval (if needed)	Jennie Green: Mgr, Division Laboratory	11/3/2022
Policy and Forms Steering Committee Approval (if needed)	Gail Juleff: Project Mgr Policy	11/3/2022
Operations Directors	Sarah Britton: VP Laboratory Svcs	11/3/2022

Operations Directors	Amy Knaus: Dir, Lab Operations C	10/24/2022
Operations Directors	Amy Conners: Dir, Lab Operations A	10/19/2022
Operations Directors	Elzbieta Wystepek: Dir, Lab Operations B	10/19/2022
Operations Directors	Joan Wehby: Dir, Lab Operations C	10/19/2022
Operations Directors	Kimberly Geck: Dir, Lab Operations B	10/19/2022
Operations Directors	Brittnie Berger: Dir, Lab Operations C	10/19/2022
Quality Best Practice	Jennie Green: Mgr, Division Laboratory	10/19/2022
	Jennie Green: Mgr, Division Laboratory	10/19/2022



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#### Laboratory Incident Investigation and Root Cause Analysis (RCA) form

Laboratory employee safety incidents include sentinel events, non-sentinel events, possible exposures, or near miss events. Examples include needle sticks/sharps, blood/body fluid splashes/sprays, chemical splash, physical injury, fumes, or events that had the circumstances been slightly different, injury or illness may have occurred.

Manager/Supervisor or designee documents the form with the employee involved in the incident. If possible, also include the campus Laboratory Safety Officer. Supervisor/Manager/designee retains the original form and a copy is sent to the campus Laboratory Safety Officer and the System Quality/Safety manager.

Section A: Information	
Questions:	Response:
Date/time of incident	
Location of incident	
Hospital campus where incident occurred:	
Date investigation initiated:	
Supervisor/Manager/designee name:	
Campus Laboratory Safety Officer name (if assisting with investigation/RCA):	
Task or procedure being performed at the time of the incident (i.e. phlebotomy, tissue cutting, waste disposal)	
Are employee's training and competency records complete for the task or procedure related to the incident?	

Section B: Employee information and Incident Description/Injury

Questions: Response:

Employee's Name:

Employee's Job title

Employee's Date of hire

Length in current position at the time of the incident

Employee's assigned department (if rotates, the department at the time of the incident)

Did employee document the incident in the Beaumont Employee Health and Safety "Employee Health Incident Reporting" online form?

Questions:	Response:
Type of safety incident (i.e. needle sticks/sharps, blood/body fluid splashes/sprays, chemical, physical injury):	
What type of equipment or device was involved in the incident?  Describe any malfunction or defective equipment.	
Personal Protective Equipment (PPE):  What type of PPE was the employee using at the time of the incident?  Was PPE malfunction involved in the incident? If yes, please explain.	
Was the employee exposed to body fluids other than employee's own?  If yes, is the source known?  Was the body fluid exposure reported to Employee Health and Safety?	
Did the employee collect any evidence or photos taken to aid in the investigation and RCA? Explain.	

Section D: Additional information from employee	
In the employee's opinion:	
Did employee have the tools to safely perform the task/procedure? If no, explain.	
Did the employee receive adequate training for the task/procedure involved in the incident? If no, explain.	
Is the written Standard Operating Procedure (SOP) and Policies for the task/procedure related to the incident written clearly? If no, explain.	
Did the employee feel rushed at the time of the incident? If yes, explain.	
What other cause/contributing circumstance was associated with this incident?	
What could be done to prevent a future event?	

Section C: Detailed Description of Incident Include relevant events leading up to, during, and after the incident.

### Proceed with Sections E - F if a RCA was performed and/or process improvements implemented

Section E: Identify the Root Causes: What cause (Possible contributing factors to consider: average environmental, equipment, facility, human factors, to	vailability of information, communication amongst staff,
to prevent future incidents. A common Root Cause /	ident occurred and are the factors that need to be addressed Analysis tool is the "5 Why-Why technique". The primary goal a defect or problem by repeating the question "Why?". Each
Section F: Process Improvement	
	ts (i.e. process changes, improve forms, policy change,

Form created July 2020