

Potential Exposure Incident Reporting Summary October to December 2024							
**CAMPUS	Date of Incident	Incident Type/Agent Involved	BSL	Description	Reportable Incident	Agency Reported To	Comments/Corrective Actions
BU Medical Campus (BUMC)							
BUMC	10/10/24	Right thumb needlestick-(lancet) that had been used on non-human primate (in the BSL2)	BSL-2	Right thumb needlestick-(lancet) that had been used on non-human primate (in the BSL2)	Yes	BPHC	root cause: equipment malfunction. Steps to prevent recurrence: Will use direct lancet for blood draw on NHP
BUMC	10/15/24	Non-transgenic mouse bite to left thumb	BSL-1	Non-transgenic mouse bite to left thumb	No	N/A	root cause: Lack of experience Steps to prevent recurrence: continue training by experience staff until proficient
BUMC	10/17/24	Transgenic mouse bite to left middle finger with local allergic reaction	ABSL-1	Temp Animal Care Technician transgenic mouse bite to left middle finger with local allergic reaction	No	N/A	root cause: employee behavior Steps to prevent recurrence: Will use scruff guard, forceps, extra thick gloves to prevent future bites
BUMC	10/17/24	Splash of E-coli culture solution to right cheek and chin	BSL-2	Splash of E-coli culture solution to right cheek and chin	No	N/A	root cause: employee behavior Steps to prevent recurrence: Keep BSC sash height from obstructing waste removal access
BUMC	11/15/24	Sustained Needlestick puncture sustained prior to injecting NHP with Ketamine	ABSL-2	Sustained Needlestick puncture sustained prior to injecting NHP with Ketamine	Yes	BPHC	root cause: lack of experience and employee behavior Steps to prevent recurrence: gain more experience in dosing and properly pace experimental procedures
BUMC	11/27/24	Needlestick R hand, after use of chemical, Ficoll, non BBP	BSL-2	Needlestick R hand, after use of chemical, Ficoll, non BBP	No	N/A	root cause: employee behavior steps to prevent recurrence: review online sharps safety training
BUMC	12/10/24	Needlestick to left index finger with needle containing MSRA	BSL-2	Needlestick to left index finger with needle containing MSRA	Yes	BPHC	root cause: Human error Steps to prevent recurrence: Limit extra hand movement and take sharps safety training
BUMC	12/12/24	Right thumb laceration on microtome blade	BSL-2	Right thumb laceration on microtome blade	No	N/A	root cause: Employee Behavior and Hazardous Physiscal Environment Steps to prevent recurrence: Use guard for all sample manipulations

BUMC	12/20/24	Non-human primate scratch to left index finger	ABSL-2	Non-human primate scratch to left index finger	Yes	BPHC	root Cause: Improper equipment used and Employee behavior Steps to prevent recurrence: Always use food hopper on NHP cage as intended, cut up larger pieces of food to fit
Charles River Campus (CRC)							
CRC	10/1/24	Left thumb and middle finger burn	N/A	Left thumb and middle finger burn on hot plate	No	N/A	root cause: human error Steps to prevent recurrence: Hover hand over potentially hot equipment before moving
CRC	10/1/24	Left hand laceration	N/A	Left hand laceration on clean glassware	No	N/A	Root cause: Equipment malfunction. Steps to prevent recurrence: Check glassware for cracks, use only uncracked glassware for experiments
CRC	10/7/24	Small splash of sodium dodecyl sulfate (SDS) gel in right eye	N/A	Small splash of sodium dodecyl sulfate (SDS) gel in right eye	No	N/A	Root cause: PPE use not enforced. Steps to prevent recurrence: Wear eye protection when conducting splash risk experiments
CRC	10/8/24	Spilled some of the chemicals on gloved hand	N/A	Spilled some of the chemicals on gloved hand and is experiencing itching sensation	No	N/A	Root cause: equipment malfunction. Steps to prevent recurrence: Change gloves after spill and check gloves for holes. Glove liners for allergies
CRC	10/8/24	Small cut to left thumb	N/A	Small cut to left thumb from broken capillary tube	No	N/A	Root cause: PPE use not enforced. Steps to prevent recurrence: Wear gloves when cleaning up after experiments and check for presence of sharps
CRC	10/10/24	Cough after inhaling natural gas chemistry lab	N/A	Cough after inhaling natural gas chemistry lab	No	N/A	Root cause: Procedure not followed & lack of experience. Steps to prevent recurrence: Check hose attachments of gas source to bunsen burner before start of experiment

CRC	10/10/24	Symptoms of headache, red eyes, lightheadedness, fatigue, slight nausea and chest pain reported	N/A	Symptoms of headache, red eyes, lightheadedness, fatigue, slight nausea and chest pain reaction to fumes	No	N/A	root cause: Hazardous physical environment Steps to prevent recurrence: Move to a teaching lab course with less exposure to organic fumes
CRC	10/10/24	Right wrist contusion	N/A	Right wrist contusion from a fallen box in Chemistry lab	No	N/A	root cause: hazardous physical environment. Steps to prevent recurrence: Never store heavy supplies and boxes above head on cabinets tops
CRC	10/23/24	Bilateral hand irritation	N/A	Bilateral hand irritation while doing experiment in Chemistry class	No	N/A	root cause: None identified Steps to prevent recurrence: Wear glove liners under required gloves as cause of itching undetermined.
CRC	10/30/24	Cut to right index finger with scalpel	N/A	Cut to right index finger with scalpel used to cut fixed sheep tissue	No	N/A	root cause: Procedure not followed. Steps to prevent recurrence: Adhere to SOP on sheep dissection as designed
CRC	10/31/24	Splash of ethanol to right eye	N/A	Splash of ethanol to right eye	No	N/A	root cause: PPE use not enforced. Steps to prevent recurrence: students must wear required PPE whenever they are in the teaching lab space
CRC	10/31/24	Possible exposure to potassium persulfate	N/A	Possible exposure to potassium persulfate	No	N/A	root cause: Procedure not followed & communication issue Steps to prevent recurrence: Follow SOP for autoclave requiring experiments
CRC	11/6/24	Laceration to left index finger	N/A	Laceration to left index finger on broken glass pipette	No	N/A	root cause: improper equipment and procedure not followed Steps to prevent recurrence: follow SOP and use wooden stick not glass pipet for experiment
CRC	11/6/24	Chemical burn to skin below left eye	N/A	Chemical burn to skin below left eye	No	N/A	root cause: human error Steps to prevent recurrence: practice good hand hygiene, do not touch face with gloves on

CRC	11/6/24	Splash of chlorocyclohexane or deuterated chloroform	N/A	Splash of chlorocyclohexane or deuterated chloroform to left wrist	No	N/A	root cause: PPE use not enforced, Ergonomics Steps to prevent recurrence: Place chemicals in shared hood in middle and wear PPE so all exposed arm and hand covered
CRC	11/6/24	Splash of chlorocyclohexane or deuterated chloroform	N/A	Splash of chlorocyclohexane or deuterated chloroform to left wrist radial side and hair	No	N/A	root cause: PPE use not enforced, Ergonomics Steps to prevent recurrence: Place chemicals in shared hood in middle and wear PPE so all exposed arm and hand covered
CRC	11/7/24	Splash of deuterated chloroformon to left gloved hand	N/A	Splash of deuterated chloroformon to left gloved hand	No	N/A	root cause: human error from neighboring party Steps to prevent recurrence: Situational awareness
CRC	11/7/24	Splash of acrylamide still liquid to face	N/A	Splash of acrylamide still liquid to face	No	N/A	root cause: human error and lack of experience steps to prevent recurrence: gain greater familiarity with lab equipment and procedures
CRC	11/8/24	Right thumb cut on a clean broken pipette	N/A	Right thumb cut on a clean broken pipette	No	N/A	root cause: equipment malfunction Steps to prevent recurrence: thoroughly check glassware before use
CRC	11/8/24	Splash of Chloroform-D to left palm and wrist	N/A	Splash of Chloroform-D to left palm and wrist	No	N/A	root cause: equipment malfunction and lack of experience Steps to prevent recurrence: use different pipet and practice better hand hygiene
CRC	11/11/24	Cut right thumb opening glass ampule of formic acid, no exposure	N/A	Cut right thumb opening glass ampule of formic acid, no exposure	No	N/A	root cause: lack of experience and ergonomics Steps to prevent recurrence: continue hands-on training and use paper towel to open ampule
CRC	11/13/24	Right thumb nicked with scalpel blade with fixed tissue in Anatomy class	N/A	Right thumb nicked with scalpel blade with fixed tissue in Anatomy class	No	N/A	root cause: lack or experience Steps to prevent recurrence: work at slower pace and continue hand-on training

CRC	12/5/24	Forehead laceration	N/A	Forehead laceration from banging into the corner of the bottom bar of the chalk board	No	N/A	root cause: Employee behaviour Steps to prevent recurrence: Go around hanging obstructions
CRC	12/11/24	Cut right second digit while opening a glass ampule	BSL-2	Cut right second digit while opening a glass ampule	No	N/A	root cause: Improper training Steps to prevent recurrence: use tool to open glass vial
CRC	12/11/24	Rat bite to right second finger during training	N/A	Rat bite to right second finger during training	No	N/A	root cause: Employee Behaviour Steps to prevent recurrence: Rodent calming measures and better grip placement
CRC	12/11/24	Chemical splash to right eye	N/A	Chemical (Toluene) splash to right eye	No	N/A	root cause: PPE use not enforced, Equipment malfunction Steps to prevent recurrence: Wear eye protection and use properly functioning fume hood sash
CRC	12/12/24	Cut to right 5th digit with clean cryostat blade, no exposure	BSL-1	Cut to right 5th digit with clean cryostat blade, no exposure			root cause: Lack of experience Steps to prevent recurrence: Continue to gain experience using cryostat
National Emerging Infectious Disease Laboratory (NEIDL)							
Other - Collaborating Laboratory		No incidents					

** Indicates if incident is reportable to local, state or federal agency (e.g. Centers for Disease Control, National Institutes of Health, Boston Public Health Commission, etc.)*

**** Campus Location**

BUMC - Boston University Medical Center

CRC - Charles River Campus

NEIDL - National Emerging Infectious Disease Laboratories

Other - work done at collaborating laboratories