

APPENDIX I 29 CFR 1910.1030

OSHA's Bloodborne Pathogens standard, 29 CFR 1910.1030, can be found on the web at

https://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=10051

APPENDIX 2 Approved Sharps

Commonly Used Approved Sharps

- Hospira Pre-filled Flush Syringe
- BD Safety Glide syringe with needle
- BD Insyte Autoguard IV catheter
- BD Contact-Activated Lancet
- BD Safety-Lok Butterfly
- BD Eclipse straight phlebotomy needle
- Smith Portex Pulsator Aterial Blood Sampling Kit
- BD Plastic Clad Capillary Tubes in clinical labs/Thermo Fisher mylar coated tubes
- Bard Mini Loc Huber Needle
- Smith transfer device
- Sharps bucket from Stericycle
- Hospira Needleless IV
- ICU Medical clave connector

List of Approved Sharps at SMH



SMH Needle_Safety
Devices.xlsx

APPENDIX 3 Definitions

DEFINITIONS

BIOHAZARD LABEL is a fluorescent orange-red color with the following symbol and the word biohazard on the lower part of the label. This label shall be affixed to containers of regulated waste, refrigerator/freezers and other containers used to store, transport or ship blood and other potentially infectious materials.

BLOOD means human blood, products made from human blood, and human blood components including plasma, platelets, and serosanguinous fluids (e.g. exudates from wounds). Also included are medications derived from blood, such as immune globulins, albumin, and factors 8 and 9.

BLOODBORNE PATHOGENS means pathogenic microorganisms that are present in human blood / body fluids containing blood, and can cause disease in humans. These pathogens include, but are not limited to, hepatitis B virus (HBV), hepatitis C virus (HCV), and human immunodeficiency virus (HIV).

CLINICAL LABORATORY means a workplace where diagnostic or other screening procedures are performed on blood or other potentially infectious materials.

CONTAMINATED means the presence or the reasonably anticipated presence of blood or other potentially infectious materials on an item or surface.

CONTAMINATED LAUNDRY means laundry, which has been soiled with blood or other potentially infectious materials or may contain sharps.

CONTAMINATED SHARPS means any contaminated object that can penetrate the skin including, but not limited to needles, scalpels, broken glass, broken capillary tubes, and exposed ends of dental wires.

DECONTAMINATION means the use of physical or chemical means to remove, inactivate, or destroy bloodborne pathogens on a surface or item to the point where they are no longer capable of transmitting infectious particles and the surface or item is rendered safe for handling, use, or disposal.

ENGINEERING CONTROLS means controls (i.e. sharps disposal containers, self-sheathing needles) that isolate or remove the bloodborne pathogens hazard from the workplace.

EXPOSURE DETERMINATION means the review of all positions to evaluate the possibility of exposure to blood or other potentially infectious materials.

EXPOSURE INCIDENT means a specific eye, mouth, other mucous membrane, non-intact skin, or parenteral contact with blood or other potentially infectious materials that results from the performance of an employee's duties.

HANDWASHING FACILITIES means a facility providing an adequate supply of running potable water, soap and single use towels or hot air drying machines.

HBV means hepatitis B virus.

HCV means hepatitis C virus.

HEALTHCARE WORKER is an employee of a healthcare facility including, but not limited to, nurses, physicians, dentists and other dental workers, optometrists, podiatrists, chiropractors, laboratory and blood bank technicians, research laboratory scientists, phlebotomists, dialysis personnel, paramedics, emergency medical technicians, medical examiners, morticians, housekeepers, laundry workers, students, hospital volunteers and others whose work may involve direct contact with body fluids from living individuals or corpses.

HIV means human immunodeficiency virus.

OCCUPATIONAL EXPOSURE means reasonably anticipated skin, eye, mucous membrane, or parenteral contact with blood or other potentially infectious materials that may result from the performance of an employee's duties.

OTHER POTENTIALLY INFECTIOUS means

- (1) The following human body fluids: semen, vaginal secretions, cerebrospinal fluid, synovial fluid, pleural fluid, pericardial fluid, peritoneal fluid, amniotic fluid, saliva in dental procedures, any body fluid that is visibly contaminated with blood, and all body fluids in situations where it is difficult or impossible to differentiate between body fluids;
- (2) Any unfixed tissue or organ (other than intact skin) from a human (living or dead); and
- (3) HIV-containing cell or tissue cultures, organ cultures, and HIV- or HBV-containing culture medium or other solutions; and blood, organs, or other tissues from experimental animals infected with HIV or HBV.

PARENTERAL means piercing mucous membranes or the skin barrier through such events as needlesticks, human bites, cuts, and abrasions.

PERSONAL PROTECTIVE EQUIPMENT is specialized clothing or equipment worn by an employee for protection against a hazard. General work clothes (e.g. uniforms, pants, shirts or blouses or prescription eye glasses) not intended to function as protection against a hazard are not considered to be personal protective equipment.

PHLEBOTOMIST is any healthcare worker who draws blood samples.

REGULATED WASTE means liquid or semi-liquid blood or other potentially infectious materials; contaminated items that would release blood or other potentially infectious materials in a liquid or semi-liquid state if compressed; items that are capable of releasing blood or potentially

infectious materials during handling; contaminated sharps; and pathological and microbiological wastes containing blood or other potentially infectious materials.

RESEARCH LABORATORY means a laboratory producing or using research-laboratory-scale amounts of HIV or HBV. Research laboratories may produce high concentrations of HIV or HBV but not in the volume found in production facilities.

SHARPS means any object that can penetrate the skin including but not limited to needles, scalpels, broken capillary tubes, and broken glassware.

SOURCE INDIVIDUAL means any individual, living or dead, whose blood or other potentially infectious materials may be a source of occupational exposure to the employee, health care worker (HCW) or student. Examples include, but are not limited to, hospital and clinic patients; clients in institutions for the developmentally disabled; trauma victims; clients of drug and alcohol treatment facilities; research subjects, residents of hospices and nursing homes; human remains; and individuals who donate or sell blood or blood components.

STERILIZE means the use of a physical or chemical procedure to destroy all microbial life including highly resistant bacterial endospores.

UNIVERSAL GLOVING means wearing gloves whenever a healthcare worker has contact with a patient's skin.

UNIVERSAL PRECAUTIONS as defined by CDC, are a set of precautions designed to prevent transmission of human immunodeficiency virus (HIV), hepatitis B virus (HBV), and other bloodborne pathogens when providing first aid or health care. Under universal precautions, blood and certain body fluids of all patients are considered potentially infectious for HIV, HBV and other bloodborne pathogens.

WORK PRACTICE CONTROLS means controls that reduce the likelihood of exposure by altering the manner in which a task is performed (e.g. prohibiting recapping of needles by a two-handed technique or activating the safety device on a sharp immediately after use).

APPENDIX 4 Exposure Determination

EXPOSURE DETERMINATION

This exposure determination was originally conducted in May 1992. The information presented in this appendix is reviewed and updated annually. All University job classifications have been evaluated for occupational exposure to human blood and body fluids. The following listings summarize the findings.

CLASS I: ALL EMPLOYEES HAVE OCCUPATIONAL EXPOSURE

Position code	Job Description
75	Resident
81	Intern
176	Asst Supvr Logistics, Clin Labs
180	Asst Supvr Public Safety
222	Materials Process Spec, Wk Ldr
304	Dental Asst
305	Teaching Asst
401	Patient Care Technician
528	ED Access Spec
763	Orthotic/Prosthetic Prod Spec
783	Public Safety Peace Officer
785	Public Safety Wk Ldr
787	Public Safety Dispatch Wk Ldr
811	Orthotic/Prosthetics Prod Asst
825	Public Safety Officer II
853	Public Safety Officer I
881	Transport Asst
883	Physical Therapy Aide
885	Materials Processing Spec
891	Unit Support Asst, SMH
895	Perioperative Support Assoc
1571	Mgr Security
1572	Administrator Security
1573	Deputy Dir Public Safety
1575	Dir Public Safety
1740	Head Coach
1742	Athletic Trainer
1743	Asst Coach
1745	Dir Athletics & Recreation
1747	Coach/Recreation Specialist I
1748	Head Trainer/Admin Sports Med
2124	Infection Preventionist
2130	Chief Nursing, UHS

CLASS I ALL EMPLOYEES HAVE OCCUPATIONAL EXPOSURE (continued)

Position code	Job Description
2134	Asst Dir Clinical Ops, UHS
2178	Chief Social Worker
2181	Sr Social Worker
2182	Crisis Specialist, Psychiatry
2183	Crisis Therapist, Psychiatry
2184	Social Worker
2188	Sr Social Worker Asst
2189	Social Worker Asst
2217	Staff Orthotist
2220	Chief Perfusionist
2248	Rehabilitation Therapist
2305	Supvr Dental Operations
2339	Funeral Dir, MC & Univ Sexton
2348	Chief Orthotics, SMH
2422	Sr Sanitarian
2423	Hazardous Waste Chemist
2424	Mgr Environ Compliance, EH&S
2425	Sr Industrial Hygienist
2426	Industrial Hygienist
2427	Health Physicist
2432	Nurse Spec, FL Occup Hlth Pgm
2450	Project Nurse
2478	Assoc Dir, Nrsg Prac
7000	Asst Supvr Technical, Lab Med
7003	Asst Supvr Clin Supt, Lab Med
7006	Lab Clinical Supt Tech II
7009	Lab Clinical Supt Tech III
7012	Lab Clinical Supt Tech IV
7015	Lab Clinical Supt Tech V
7018	Lab Cust Supt-Rep
7019	Lab Cust Sup-Spec Svcs Rep
7021	Lab Cust Supt-Trainer
7024	Lab Cust Supt-Lead
7027	Cytotechnologist
7033	Medical Lab Technician II
7036	Autopsy Asst
7039	Autopsy Asst-Sr
7042	Medical Technologist I
7045	Medical Technologist II
7048	Med Technologist Cytogenetics
7051	Med Technologist-Spec
7054	Phlebotomist
7057	Phlebotomist-Trainer

CLASS I ALL EMPLOYEES HAVE OCCUPATIONAL EXPOSURE (continued)

Position code	Job Description
7060	Phlebotomist-Sr
7063	Phlebotomy Operations Coord
7074	Asst Supvr Parking Svcs
7101	Esthetician
7103	Medical Lab Technician, UHS
7107	Allergy Technologist III
7110	Radiation Therapist
7111	Radiation Therapist-Lead
7115	Asst Supvr Radiation Oncology
7121	Ambulatory Technologist II
7122	Ambulatory Technologist III
7123	Ambulatory Technologist IV
7132	Anesthesia Technologist
7133	Anesthesia Technologist-Sr
7134	Anesthesia Technologist-Lic
7135	Anesthesia Technologist-Lead
7139	Derm Mohs Technologist III
7142	DEXA Scanner
7144	ED Oprs Technologist III
7149	ICU Oprs Technologist III
7155	Medical Asst I, Primary Care
7156	Medical Asst II, Primary Care
7160	Derm Mohs Technologist IV
7161	Mohs Histology-Spec
7164	Newborn Hearing Screener
7166	Hearing Aid Technician
7167	Audiology Intern
7168	Speech Pathology Intern
7171	Ophthalmic Technologist III
7172	Ophthalmic Technologist IV
7173	Ophthalmic Imaging Specialist
7175	Orthotics/Prosthetics Fitter
7187	Sonographer IV, OB/GYN
7189	Asst Supvr OB/GYN
7191	Health Clinic Technologist II
7203	EMG Technologist
7204	EEG Technologist
7205	Neurophysiology Tech
7206	Clin Neurophysiology Tech-Spec
7207	Asst Supvr Neuromusc Dis/EMG
7208	Asst Supv Clin Neuro Tech Spec
7211	Sonographer Vascular Surgery
7214	Asst Supvr Vascular Surgery

CLASS I ALL EMPLOYEES HAVE OCCUPATIONAL EXPOSURE (continued)

Position code	Job Description
7216	Geri/Neuro Technician, Psych
7217	Alzheimer Dis Tech Care, Psych
7220	Cardiac Cath Technologist III
7221	Cardiac Cath Technologist IV
7222	Cardiac Cath Technologist-Spec
7225	ECG Technician II
7226	ECG Technician III
7230	Electrophysiology Tech IV
7231	Electrophysiology Tech-Spec
7235	Treadmill Technologist IV
7238	Holter Monitor Tech IV
7242	Pacer/Device Technologist IV
7245	Nuclear Cardiology Tech
7248	Sonographer Cardiology
7249	Asst Supvr Cardiac Sonographer
7254	Sonographer Peds Cardiology
7255	Asst Supv Sonographer Ped Card
7260	Radiology Tech, Urgent Care
7300	Dental Assistant - Licensed
7304	Dental Assistant (S)
7336	Dental Hygienist
7339	Respiratory Technician
7340	Respiratory Therapist
7356	Pest Mgmt Specialist
7357	Pest Mgmt Specialist Sr
7359	Physical Thpy Asst
7379	Lab Animal Technician Asst
7380	Lab Animal Technician
7396	Cardiovascular Perfusionist
7397	In-House Agncy Surg Tech (Med)
7399	Surgical Technologist
7402	Sr Psychiatric Technician
7403	Surgical Technologist Main OR
7405	Psychiatric Case Mgr
7406	Sr Psychiatric Case Mgr
7410	Biomedical Equip Technician
7411	Sr Biomedical Equip Tech
7415	Imaging Equip Technician
7416	Sr Imaging Equip Technician
7425	Central Svc Tech
7427	Central Svc Tech Wk Ldr
7601	LPN, Primary Care
7604	RN, Primary Care

CLASS I ALL EMPLOYEES HAVE OCCUPATIONAL EXPOSURE (continued)

Position code	Job Description
7617	Staff Nurse, UHS
7625	Licensed Practical Nurse
7626	Registered Nurse
7631	Registered Nurse-Level I
7632	Registered Nurse-Level II
7633	Registered Nurse-Level III
7635	Registered Nurse-Tier II
7636	RN, Weekend-Level II
7637	RN, Weekend-Level III
7638	In-House Agency RN
7639	Telephone Triage Nurse
7643	LPN-Proficient
7645	LPN-Expert
7646	LPN-Mentor
7648	LPN, Weekend Schedule Pgm
7650	Registered Nurse-Sr Level III
7651	RN, Weekend-Sr Level III
7703	Asst Supvr CT Reg Radiology
7706	Asst Supvr IR Radiology
7709	Asst Supvr IRVI Radiology
7712	Asst Supvr MRI Reg Radiology
7715	Asst Supvr MRI Radiology
7718	Asst Supvr Nuclear Med
7721	Asst Supvr Radiology
7724	Asst Supvr Radiology Mammo
7728	Asst Supvr Rad Ortho
7742	Nuclear Med Technologist
7745	Nuclear Med Technologist-Lead
7749	Rad Technologist CT-Per Diem
7754	Rad Technologist IRVI Reg
7757	Rad Technologist-Lead CT Reg
7763	Rad Technologist-Lead IRVI
7766	Rad Technologist-Lead MRI Reg
7772	Rad Technologist MRI-Lead
7773	Rad Technologist Ortho-Lead
7775	Rad Technologist MRI-Per Diem
7778	Rad Technologist MRI Reg
7781	Rad Technologist-Per Diem
7782	Rad Tech Ortho-Per Diem
7784	Radiologic Technologist CT
7787	Radiologic Technologist
7788	Rad Technologist Ortho
7790	Radiologic Technologist CT Reg

CLASS I ALL EMPLOYEES HAVE OCCUPATIONAL EXPOSURE (continued)

Position code	Job Description
7793	Radiologic Technologist ESWL
7796	Radiologic Technologist IR
7799	Radiologic Technologist-Lead
7802	Radiologic Technologist Mammo
7805	Radiologic Technologist MRI
7808	Sonographer
7814	Sonographer-Per Diem
7820	Sonographer RVT Reg
7822	Sonographer Advanced Practice
8000	Supvr Imaging Radiology
8005	Supvr Nuclear Cardiology
8010	Chief Supvr Imaging Radiology
8013	Supvr Clinical Supt, Lab Med
8016	Supvr Phlebotomy
8019	Supvr Technical, Lab Med
8022	Chief Supvr, Lab Med
8025	Pathologists' Asst
8030	Supvr Clin Ops & Data Mgt, SEC
8035	Operations Dir, FLDRN
8040	Ops Mgr Anesth Tech Svcs
8080	Clinical Research Coord (S)
8081	Clinical Research Assoc (S)
8082	Mgr Clin Res Coord (S)
8101	Nurse Practitioner, Prim Care
8103	Physician Asst, Primary Care
8105	Clinical Care Mgr, Prim Care
8125	Nurse Practitioner, UHS
8126	Physician Asst
8148	Nurse Anesthetist
8184	Social Worker (S)
8200	Chief Physical Therapy, SMH
8201	Staff Hand Therapist
8206	Sr Physical Therapist
8209	Staff Physical Therapist
8213	Chief Occupational Thy, SMH
8214	Sr Occupational Therapist
8215	Occupational Therapist
8218	Speech/Language Pathologist
8219	Sr Speech/Language Pathologist
8234	Chief Respiratory Therapy
8235	Clinical Coord Respiratory Thy
8320	Dir Audiology & Speech Path
8321	Audiologist

CLASS I ALL EMPLOYEES HAVE OCCUPATIONAL EXPOSURE (continued)

Position code	Job Description
8322	Sr Audiologist
8430	Nurse Practitioner
8438	Acute Care Coord, RN
8440	Home Care Liaison RN
8441	Utilization Mgmt RN
8443	Utilization Mgmt Pgm Mgr
8445	Home Care Liaison Mgr
8455	Asst Nurse Manager
8456	Clinical Resource Nurse
8461	Nurse Mgr
8463	Clinical Nurse Specialist
8464	Nurse Practitioner, Nsg
8465	Nurse Educator
8466	Clinical Nurse Leader
8467	Advanced Practice RN
8470	Sr Clinical Nurse Specialist
8471	Sr Nurse Practitioner, Nsg
8472	Sr Nurse Mgr
8474	Sr Nurse Educator
8477	Sr Advanced Practice RN
8480	APP Fellow, Emergency Med
8753	Organ Procurement Coord
8942	RN Exempt - Proficient
8943	RN Exempt - Expert
8944	RN Exempt - Mentor

CLASS II: SOME EMPLOYEES HAVE OCCUPATIONAL EXPOSURE

Potential exposure is determined for these employees by referring to the task list which follows.

Position Code	Job Description	Tasks with Potential for Exposure
1	Professor	1
3	Assoc Professor	1
5	Asst Professor	1
6	Assoc Professor (Svc)	1
7	Sr Instructor	1
8	Asst Professor (Svc)	1
9	Instructor	1
10	Sr Instructor (Svc)	1
11	Instructor & Fellow	1
12	Professor (Non Tenure Track)	1
14	Instructor Clinical Nrsg	1
16	Asst Professor Clinical Nrsg	1
17	Per-Session Instructor	1
18	Assoc Professor Clinical Nrsg	1
22	Professor Clinical Nrsg	1
27	Clinical Professor	1
29	Clinical Assoc Professor	1
31	Clinical Asst Professor	1
33	Clinical Sr Instructor	1
35	Clinical Instructor	1
37	Adjunct Professor	1
38	Research Professor	1
39	Adjunct Assoc Professor	1
40	Research Assoc Professor	1
41	Adjunct Asst Professor	1
42	Research Asst Professor	1
45	Adjunct Instructor	1
46	Professor of Clinical	1
47	Visiting Professor	1
48	Assoc Professor of Clinical	1
49	Visiting Assoc Professor	1
52	Sr Research Engineer	2
53	Research Engineer	2
57	Visiting Asst Professor	1
60	Asst Professor of Clinical	1
61	Visiting Instructor	1

CLASS II: SOME EMPLOYEES HAVE OCCUPATIONAL EXPOSURE (continued)

Position Code	Job Description	Tasks with Potential for Exposure
62	Sr Scientist	2
63	Scientist	2
64	Sr Research Assoc	2
65	Research Assoc	2
67	Visiting Scientist	2
69	Visiting Research Assoc	2
70	Sr Assoc	2
71	Assoc	2
72	Sr Instructor of Clinical	1
73	Asst	1
74	Clinical Assoc	1
78	Research Resident	1
80	Instructor of Clinical	1
82	Resident Non-MD	2
89	Graduate Teaching Asst (Svc)	2
93	Postdoctoral Assoc	2
94	Visiting Postdoctoral Fellow	1
95	Postdoctoral Fellow	1
98	Fellow	1
99	Departmental Fellow	1
103	Graduate Research Asst (Svc)	2
105	Graduate Asst (Svc)	2
110	Asst Professor (Non-Tenure)	1
111	Assoc Professor (Non-Tenure)	1
112	Asst Professor (Research)	1
113	Assoc Professor (Research)	1
114	Professor (Research)	1
118	Assoc Professor-Pend Approval	1
146	Sr Faculty Assocs Pgm	2
198	Asst Supvr Orthotic Lab	3
203	Electrician Wk Ldr	4
204	HVAC/Systems & Ctls Wk Ldr	4
206	Crafts Wk Ldr	5
207	Trades Wk Ldr	5
208	Steamfitter/Plumber Wk Ldr	5
211	Painter Wk Ldr	6
212	Automation Mechanic, Wk Ldr	7
213	Environmental Svcs Wkr, Wk Ldr	8
225	Perioperative Spt Assoc Wk Ldr	1
234	Stationary Opr Eng Wk Ldr	4
237	Maintenance Spec Wk Ldr, DC	4
301	Co-op Student	9

CLASS II: SOME EMPLOYEES HAVE OCCUPATIONAL EXPOSURE (continued)

Position Code	Job Description	Tasks with Potential for Exposure
307	Laboratory Technician I	10
309	Laboratory Technician II	10
311	Laboratory Technician III	10
313	Laboratory Technician IV	10
315	Laboratory Technician V	10
316	Supv Laboratory Technican V	10
330	Fire Safety Inspector I	11
332	Electronic Technician II	4
333	Electronic Technician III	4
334	Electronic Technician IV	4
335	Fire Safety Inspector II	11
347	Instrument Model Maker A	4
348	Instrument Model Maker B	4
360	Massage Therapist	14
385	SS Tech III	12
386	SS Tech IV	12
393	Pharmacy Intern	13
404	Equipment Assistant	13
421	Dietetic Technician	14
467	Patient Unit Secretary	14
475	Health Project Counselor	1
489	Data Control Clerk I	2
490	Data Control Clerk II	2
552	Patient Diet Clerk	14
572	Pgm Trainee	14
573	Project Asst	14
574	SS Asst	12
615	Medical Office Asst II, UHS	2
621	Research Nurse	1
642	Strong Nrsg-Sumr Stud Emp	1
701	SS Aide I (KS)	12
702	SS Aide II (KS)	12
704	SS Aide III	12
705	Painter A	6
706	SS Aide II	12
707	Electrician A	4
709	Carpenter A	4
711	Systems Balance Mechanic	4
713	Mason A	4
715	Sheet Metal Worker A	15
718	Automation Mechanic A	4
724	Mechanic A	4

CLASS II: SOME EMPLOYEES HAVE OCCUPATIONAL EXPOSURE (continued)

Position Code	Job Description	Tasks with Potential for Exposure
725	Mechanic B	4
729	Air Cond & Refrig Mech A	4
730	Air Cond & Refrig Mech B	4
732	Steamfitter/Plumber A	5
734	Locksmith A	4
737	Preventive Maintenance Mech A	4
739	Preventive Mainten Mech, MC	4
742	Equipment Mechanic	4
744	SS Aide IV	12
746	SS Aide VI	12
765	General Svcs Attendant	16
767	Building Mechanic A	4
769	Building Mechanic Wk Ldr	4
801	Stockkeeper A	4
802	Stockkeeper B	4
806	Helper Skilled Trades	4
812	Driver	2
814	Truck Driver	18
842	Horticultural Asst	19
843	Horticulturist	19
844	Groundskeeper Mechanic	19
849	Environmental Svcs Worker	8
854	Groundskeeper	19
894	Incinerator Opr	8
999	Fellowship-No Emp Relshp	2
1060	Dean/Dir	1
1061	Asst Dean	1
1062	Assoc Dean/Dir	1
1065	Asst/Assoc Dean Administration	1
1156	SS Assoc II	12
1157	SS Assoc III	12
1158	Project Representative	12
1250	Administrator III	12
1252	Administrator II	12
1254	Administrator I	12
1256	Administrative Asst	12
1415	Trades Supvr/Area Mgr	4
1419	Dir Univ Facilities	4
1426	Asst Dir Facilities Oprs	4
1430	Supvr Work Ctl Ctr, Univ Fac	4
1431	Prevent Mainten Admin, Fac	4
1433	Plan/Schedule/Estimating Coord	4

CLASS II: SOME EMPLOYEES HAVE OCCUPATIONAL EXPOSURE (continued)

Position Code	Job Description	Tasks with Potential for Exposure
1459	Assoc Dir Univ Fac & Svcs	4
1463	Facilities Mgr Oprs/Main, Fac	4
1477	Asst Dir Environ Svcs, SMH	8
1478	Environmental Svcs Mgr	8
1479	Asst Mgr Environmental Svcs,MC	8
1482	Housekeeping Supvr/Asst Supvr	8
1483	Environmental Svcs Supvr, MC	8
1582	Fire Safety Specialist	8
1682	Staff Psychologist	14
1721	Chaplain, SMH	14
1722	Chaplain Resident, SMH	14
1737	Researcher	9
1750	Sr Technical Assoc	9
1751	Technical Assoc II	9
1752	Technical Assoc I	9
1756	Staff Scientist, SMD	9
1764	Sr Laboratory Engineer	9
1765	Laboratory Engineer	9
1767	Research Program Mgr	1
1795	Mgr Facilities & Security, MAG	16
2019	Assoc Dir Pmy Care Prac Oprs	1
2035	Program Administrator, SMH	1
2041	Sr Health Project Coord	1
2042	Health Project Coord	1
2047	Exercise Physiologist	20
2073	Assoc Quality Officer, SMH	14
2074	Asst Quality Officer, SMH	14
2080	Human Subject Res Coord I	1
2081	Human Subject Res Coord II	1
2082	Sr Human Subject Res Coord	1
2099	Education Mgr, Lab Med	9
2115	Nurse Recruiter, SMH	1
2116	Nurse Coord	1
2127	Radiation Safety Ofcr	4
2128	EAP Counselor	14
2145	Child Life Pgm Coord	1
2165	Family & Marital Therapist	14
2177	Dir Soc Work/Pt & Fam Svc, URMC	14
2185	Chemical Dependency Counselor	14
2186	Sr Chemical Depend Counselor	14
2187	Psych Intensive Case Mgr	14
2190	Dir Reg & Billing Compl, Psych	14

CLASS II: SOME EMPLOYEES HAVE OCCUPATIONAL EXPOSURE (continued)

Position Code	Job Description	Tasks with Potential for Exposure
2191	QA & Compl Spec, Lab Med	9
2192	Clinical Coord, Psych Pgm	14
2193	Quality Systems Mgr, Lab Med	7
2197	ITP Coord, Addiction Psych Svc	14
2198	Health Home Care Mgr, Psych	1
2243	Sr Activities Therapist	14
2246	Activities Therapist	14
2310	Oprs Supvr Matls Supply, SMH	9
2313	Oprs Mgr Matls Supply, SMH	9
2314	Svc Supvr Matls Supply, SMH	9
2325	Central Services Supvr	9
2330	Dir Environ Health & Safety	14
2343	Sr Dir Ambulatory Care, URMC	1
7181	Sleep Technologist-Level II	10
7182	Sleep Technologist-Level III	10
7183	Sleep Technologist-Level IV	10
7307	Laboratory Technician I (S)	9
7309	Laboratory Technician II (S)	9
7311	Laboratory Technician III (S)	9
7313	Laboratory Technician IV (S)	9
7315	Laboratory Technician V (S)	9
7316	Supv Laboratory Technican V(S)	9
7326	Respiratory Therapy Tech-Lev I	10
7327	Respiratory Therapist-Lev II	10
7328	Respiratory Therapist-Lev III	10
7329	Respiratory Therapist-Lev IV	10
7332	Electronic Technician II (S)	4
7333	Electronic Technician III (S)	4
7334	Electronic Technician IV (S)	4
7344	Dosimetrist	7
7408	Child Life Asst, SMH	1
7430	Interpreter Language-Per Diem	14
7432	Interpreter Language	1
7433	Interpreter Language-Sr (GP)	14
7436	Interpreter ASL-Per Diem	14
7438	Interpreter Am Sign Lang	14
7440	Interpreter Am Sign Lang-Sr	14
7501	Tumor Registrar, Cancer Ctr	14
7855	Parking Svcs Representative	19
8017	Systems & Methods Analyst	16
8018	Sr Systems & Methods Analyst	16
8147	Child Life Specialist	1

CLASS II: SOME EMPLOYEES HAVE OCCUPATIONAL EXPOSURE (continued)

Position Code	Job Description	Tasks with Potential for Exposure
8162	Pharmacist Inpt-Clin II	13
8164	Pharmacist Inpt-Sr Clin III	13
8168	Pharmacist-Clin Spec I	13
8170	Pharmacist-Clin Spec II	13
8172	Pharmacist-Sr Clin Spec III	13
8178	Pharmacist Outpt II	13
8181	Sr Social Worker (S)	14
8274	Clinical Nutrition Spec, SMH	14
8275	Clinical Dietician	14
8301	Dir Clinical Engineering	4
8303	Mgr Clinical Engineering, SMH	4
8420	Project Mgr, Univ Fac & Svcs	4
8450	Mechanical Engineer	4
8488	Pgm Mgr Fac Condition Assess	4
8750	Technical Assoc-Sr (S)	2
8751	Technical Assoc II (S)	2
8752	Technical Assoc I (S)	2
8816	Mgr Univ IT Applications	4

**Class II BBP Exposure Determination July 2016
Task Descriptions with Potential for BBP Exposure**

Tasks code	Tasks description
1	<ul style="list-style-type: none"> • Handling blood / tissues / OPIM / contaminated sharps / spill clean-up • Providing patient care including handling contaminated sharps
2	<ul style="list-style-type: none"> • Handling blood / tissues / OPIM / contaminated sharps / spill clean-up
3	<ul style="list-style-type: none"> • Providing patient care including handling of contaminated sharps • Maintenance work on contaminated prosthesis / orthotics
4	<ul style="list-style-type: none"> • Maintenance work on contaminated equipment
5	<ul style="list-style-type: none"> • Plumbing work in areas using human fluids • Maintenance work on contaminated equipment
6	<ul style="list-style-type: none"> • Handling contaminated sharps
7	<ul style="list-style-type: none"> • Handling contaminated equipment • Handling human specimens / tissue, including spill clean-up
8	<ul style="list-style-type: none"> • Handling regulated medical waste, including contaminated sharps • Spill clean-up inside facility, excluding labs
9	<ul style="list-style-type: none"> • Handling blood / tissues / OPIM / contaminated sharps / spill clean-up • Handling contaminated equipment / instruments
10	<ul style="list-style-type: none"> • Handling blood / tissues / OPIM / contaminated sharps / spill clean-up • Patient contact • Handling contaminated equipment
11	<ul style="list-style-type: none"> • Handling regulated medical waste, including contaminated sharps • Spill clean-up inside / outside the facility
12	<ul style="list-style-type: none"> • Handling blood / tissues / OPIM / contaminated sharps / spill clean-up • Handling regulated medical waste, including contaminated sharps
13	<ul style="list-style-type: none"> • Patient contact while handling emergency response drug cases
14	<ul style="list-style-type: none"> • Patient contact
15	<ul style="list-style-type: none"> • Working on contaminated ductwork
16	<ul style="list-style-type: none"> • Maintenance work on contaminated equipment • Spill clean up
17	<ul style="list-style-type: none"> • Maintenance work on contaminated equipment • Transportation of regulated medical waste, including contaminated sharps
18	<ul style="list-style-type: none"> • Handling regulated medical waste, including contaminated sharps • Handling human specimens / tissue, including spill clean-up inside facility
19	<ul style="list-style-type: none"> • Handling regulated medical waste, including contaminated sharps • Spill clean-up outside the facility
20	<ul style="list-style-type: none"> • Providing patient care including handling of contaminated sharps

APPENDIX 5 Medical Waste Disposal

Disposal of Regulated Medical Waste

Point of Generation - General Guidelines

For legal and safety reasons, it is imperative that as potential generators of regulated medical waste you handle and dispose of it properly. It should be realized that regulated medical waste is a subset of, and includes, only certain categories of medical waste.

The following general categories are defined as regulated medical waste (RMW).

1. **Cultures and stocks** of infectious agents and associated biologicals from medical, pharmaceutical or other research, commercial, or industrial laboratories including laboratory wastes that were in contact with these agents.
2. **Human pathological wastes** including tissue, organs, body parts, body fluids* and items saturated to the point of dripping with these fluids removed during surgery, autopsy or other medical procedures.
3. **Human blood and blood products** including items saturated to the point of dripping with free flowing blood or blood products.
4. **Sharps** that have been used in animal or human patient care or treatment or in medical, research or industrial laboratories as well as certain other unused sharps that are discarded.
5. **Contaminated animal carcasses**, body parts and bedding of animals that were known to have been exposed to infectious agents.

*Feces or material saturated with feces is not RMW. Urine unless submitted as a clinical specimen for laboratory tests or is from a patient known to have a disease, which may be transmitted through urine, is not RMW.

Proper Disposal Practices

1. Solid Regulated Medical Waste is deposited in red plastic bags for autoclaving. In some areas RMW may be initially disposed of in a clear plastic bag with ultimate disposal in a red bag. Autoclaving at the laboratory for most red-bagged (RMW) waste is not necessary. However, certain high-risk labs may be required or may desire to autoclave their waste in the laboratory prior to handling by Housekeeping staff. Recombinant DNA wastes may require special handling (contact Biological Safety Officer). State law prohibits disposal of untreated regulated medical waste in landfills.
2. Liquid Regulated Medical Waste including blood can be deposited in the sewer by using a toilet or designated sink. However, public toilets or sinks should not be used nor should sinks be used that are designated for handwashing or instrument cleaning. If liquid RMW will not be emptied, it must be disposed of in a leak-proof container, ensuring that any lids or opening are sealed.
3. Sharps including needles, blades, sharp pipettes, slides, broken/contaminated glass or any other item that could puncture a bag must be deposited in hospital-approved sharp containers. **Never place sharps in plastic bags or anywhere other than in approved sharps shelters.** As a general rule, sharps shelters must not be overfilled and are replaced when $\frac{3}{4}$ full. Sharps shelters are replaced by area designee.

Note: Unbroken, used blood vials/tubes from Clinical Labs are considered sharps and must be disposed of accordingly. Some Clinical Labs have specifically designed boxes for these tubes.

4. Regular trash(non-regulated) is deposited in plastic bags and is placed in the compactor for land-filling. In the Medical School labs there are separate containers for unbroken, non-regulated glassware waste, which are emptied on a set schedule by Environmental Services.
5. Hazardous chemical waste as well as radioactive waste require detailed, special handling. The Hazardous Waste Management Unit should be contacted for chemical waste disposal, and the Radiation Safety Unit for radioactive waste.
6. Antineoplastic waste(chemotherapeutic waste), either separate or mixed with RMW and generated in healthcare settings is segregated and disposed of as per Strong Memorial Hospital Policy 7.10 "Antineoplastic and Other Toxic Agents Guidelines for Handling". Such waste generated in the laboratory and Vivarium settings are segregated for disposal by the Hazardous Waste Management Unit.
7. Containers used to store and transport solid RMW are sanitized on a regular basis. Such containers are sanitized at the Medical Center Rotoclave each time they are emptied. Other containers used to hold red bags are decontaminated as per Housekeeping schedules.

Medical Waste Directory List

Environmental Services	x5-6252
Environmental Health & Safety	
Biological Safety Officer	x5-3241 or x5-3014
Environmental Compliance/Hazardous Waste Management Unit	x5-2056
Radiation Safety Unit	x5-3781
University Sanitarian	x5-8405
Infection Prevention (SMH)	x5-7716
Infection Control (EASTMAN INSTITUTE FOR ORAL HEALTH)	x5-2662

APPENDIX 6 Important Telephone Numbers

IMPORTANT TELEPHONE NUMBERS

University Health Service Occupational Health Nurse	x5-2662
University Health Service Occupational Health Program	x5-4955
SMH Employee Health Blood Exposure Hotline	275-1164
Infection Prevention, SMH	x5-7716
Infection Control, EASTMAN INSTITUTE FOR ORAL HEALTH	x5-2662
Environmental Health & Safety	x5-3241
University Biosafety Officer	x5-3241 or x5-3014
Occupational Safety Unit	x5-3241
University Sanitarian	x5-8405
Environmental Services	
Strong Memorial Hospital(SMH)	x5-6255
School of Medicine &Dentistry (SMD)	x5-9203
River Campus	x3-4567
Public Safety	
Emergency	x13
Non-emergency	x5-3333

APPENDIX 7 Research Labs

HIV/HBV Research Laboratories -- Special Instructions

This section applies to research laboratories engaged in the culture, production, concentration, experimentation, and manipulation of HIV or HBV. It does not apply to clinical or diagnostic laboratories engaged solely in the analysis of blood, tissues, or organs.

These requirements apply in addition to the other requirements of the standard and of the Institutional Biosafety Committee. All research with potential biohazardous materials, including HIV and HBV, must be approved by the Institutional Biosafety Committee prior to initiating such experiments. Contact the University Biosafety Officer at x5-3014 or x5-3241 for more information.

1. Standard Microbiological Procedures.
2. All regulated waste shall be decontaminated by a method such as autoclaving known to effectively destroy bloodborne pathogens.
3. Special Practices:
 - a. Laboratory doors shall be kept closed when work involving HIV or HBV is in progress.
 - b. An autoclave for decontamination of regulated waste shall be available. Contaminated materials that are to be decontaminated at a site away from the work area shall be placed in a durable, leak-proof, labeled, or color-coded container that is closed before being removed from the work area.
 - c. Access to work area shall be limited to authorized persons. Written policies and procedures shall be established whereby only persons who have been advised of the potential biohazard, who meet any specific entry requirements, and who comply with all entry and exit procedures shall be allowed to enter the work areas and animal rooms.
 - d. When other potentially infectious materials or infected animals are present in the work area or containment module, a hazard warning sign shall be posted on all access doors.
 - e. All activities involving other potentially infectious materials shall be conducted in biological safety cabinets or other physical containment devices within the containment module. No work with these other potentially infectious materials shall be conducted on the open bench.
 - f. Laboratory coats, gowns, smocks, uniforms, or other appropriate protective clothing

shall be used in the work area and animal rooms. Protective clothing shall not be worn outside of the work area and shall be decontaminated before being laundered.

- g. Special care shall be taken to avoid skin contact with other potentially infectious materials. Gloves shall be worn when handling infected animals and when making hand contact with other potentially infectious materials is unavoidable.
 - h. Each laboratory shall contain a facility for hand washing and an eye wash facility, which is readily available within the work area.
 - i. Before disposal, all waste from work areas and from animal rooms shall either be incinerated or decontaminated by a method such as autoclaving known to effectively destroy bloodborne pathogens.
 - j. Vacuum lines shall be protected with liquid disinfectant traps and high-efficiency particulate air (HEPA) filters or filters of equivalent or superior efficiency and which are checked routinely and maintained or replaced as necessary.
 - k. Hypodermic needles and syringes shall be used only for parenteral injection and aspiration of fluids from laboratory animals and diaphragm bottles. Safety needles or needles having an integral engineered safety device to prevent needlesticks **as they become available** shall be used for the injection or aspiration of other potentially infectious materials. Extreme caution shall be used when handling needles and syringes. A needle shall not be bent, sheared, replaced in the sheath or guard, or removed from the syringe following use. The needle and syringe shall be promptly placed in a puncture-resistant container and autoclaved or decontaminated before reuse or disposal.
 - l. All spills shall be immediately contained and cleaned up by appropriate professional staff or others properly trained and equipped to work with potentially concentrated infectious materials.
 - m. A spill or accident that results in an exposure incident shall be immediately reported to the laboratory director or other responsible person.
 - n. A biosafety manual shall be prepared or adopted and periodically reviewed and updated at least annually or more often if necessary. Personnel shall be advised of potential hazards, shall be required to read instructions on practices and procedures, and shall be required to follow them.
4. Containment Equipment:
- a. Certified biological safety cabinets (Class I, II, or III) or other appropriate combinations of personal protection or physical containment devices such as special protective clothing,

respirators, centrifuge safety cups, sealed centrifuge rotor, and containment caging for animals, shall be used for all activities with potentially infectious materials that pose a threat of exposure to droplets, splashes, spills, or aerosols.

- b. Biological safety cabinets shall be certified when installed, whenever they are moved and at least annually.

5. Signs:

- a. Signs shall be posted at the entrance to HIV and HBV Research Laboratory Facilities that bear the following legend:
 - 1. Biohazard symbol and name of infectious agent,
 - 2. Special requirements for entering the area,
 - 3. Name, telephone number of the lab director or other responsible person.

An alternative to posting personal telephone numbers is to ensure that Public Safety has the contact information for the lab director and other responsible persons and then to direct responders to contact Public Safety at x13 in the event of an emergency.

- b. These signs shall be fluorescent orange-red with lettering or symbols in a contrasting color.

6. Additional initial training for employees in HIV and HBV laboratories:

- a. Supervisors will require new employees to demonstrate proficiency in standard microbiological practices and techniques and in the practices and operations specific to the facility before being allowed to work with HIV or HBV.
- b. Employees shall have prior experience in the handling of human pathogens or tissue cultures before working with HIV or HBV.
- c. The supervisor of a new employee who has no prior experience in handling human pathogens shall provide a training period. Initial work activities shall not include the handling of infectious agents. A progression of work activities shall be assigned as techniques are learned and proficiency is developed. The employer shall assure that employees participate in work activities involving infectious agents only after proficiency has been demonstrated.

APPENDIX 8 Occupational & Employee Health Blood Exposure Committee

Occupational & Employee Health Blood Exposure Committee

A. Mission

The mission of the Occupational & Employee Health Blood Exposure Committee

is to prevent blood and body fluid exposures among the University of Rochester/Strong Memorial Hospital staff and student population through the use of engineering and work practice administrative controls, work practices, education and training. The committee meets on a regular basis to carry out its mission. Documentation of committee activities and deliberations are recorded and distributed to committee participants, and to those groups charged with protecting the health and safety of the University Community.

B. Evaluation Process

Engineering controls used to prevent sharps injuries are initially evaluated by the University's

Occupational & Employee Health Blood Exposure Committee

On the basis of this review, a recommendation for trial is forwarded to the SMH Value Analysis Advisory Board for consideration.

C. Committee Representation

This committee includes representation from the following departments and disciplines:

1. SMH Employee Health Clinicians - provide clinical expertise about institutional post-exposure follow-up, including medical evaluation/ treatment/follow-up of all blood exposures.
2. Environmental Health & Safety – is responsible for maintaining the Blood Exposure Control Plan, provides guidance for research laboratory situations, acts as a liaison for employee/student safety and provides data analysis of all blood/body fluid exposures.
3. Hospital Epidemiologist – MD clinical expert and liaison to MD leadership groups for changes in practice, education or safety engineered equipment.
4. Nursing Education – clinical experience, liaison with nursing educators to ensure that any educational changes are incorporated in nursing practice and policies.
5. Nursing – clinical experience, provides guidance on day to day unit tasks and safety engineered issues.

6. Surgery/OR – clinical experience, provides guidance on surgical issues, how safety engineered equipment can be implemented, and educational opportunities.
7. Nursing Management – clinical experience, liaison with nursing leadership.
8. SMH Value Analysis Advisory Board – clinical experience, liaison for trial process, primarily responsible for introducing new products for evaluation and institutional conversion of products.
9. Physician/Surgeon – Orthopedic Trauma Surgeon provides guidance and expertise for changes in practice in acute care settings for providers.
10. GME/Residents - Third or fourth year resident/trainee represents the day to day clinical responsibilities and safety equipment issues for the residents group.

D. Employee Participation

All University employees are actively encouraged to participate in the evaluation process through their committee representative, through their supervisor, or through UHS Occupational Health, SMH Employee Health and the Occupational Safety Unit of Environmental Health & Safety.

E. Evaluation Checklist

A checklist was developed to assist with the evaluation process. This checklist was developed according to the NIOSH (National Institutes of Occupational Safety and Health) recommendations for preventing needlestick injuries.

**Documentation Checklist for Engineering Control Selection
Patient Care Products to Reduce/Eliminate Bloodborne Pathogen Exposures**

Date:

Product Name and

Number: Manufacturer:

Usage (check applicable box):

IV	
Blood Drawing	
Subcutaneous or Intramuscular	
Misc.	

Device Selection Criteria (check box if applicable):

Required	Safety device to protect needle from point of use to sharps container	
Required	Safety device is integral with product	
Required	Hands remain behind the sharp while activation	
Required	User can easily identify activated device	
Required	Safety device cannot be deactivated	
Required	Safety device can be activated one handed	
Required	Safety device is easily activated and practical	
Desirable	Needle-less	
Desirable	Passive safety device	
Acceptable	Active safety device	

Recommended to Value Analysis Advisory Board for consideration (YES or

NO): Date recommended or rejected:

If no, why was product rejected?

Comments:

F. Sharps Safety Devices

See Appendix 2 for sharps safety devices addressing needlestick prevention that are currently in use at SMH.

G. Sharps Safety Device Training

1. Training for existing employees is conducted initially by the manufacturer and their representatives. Records of general education on new products are kept at the Unit level.
2. Annual Competencies on using phlebotomy safety engineered sharps are done at the unit level and records are maintained by the Nurse Managers.
3. Training for new employees is conducted upon hire by Nursing Education Office during orientation. Records of training from orientation are kept in individual personnel files on Masters Competency checklists.

APPENDIX 9 Product Evaluation Process

- Value Analysis (VA) is responsible for reviewing proposals for new supplies, proposed supply substitutions, and product evaluations.
- There is not a standardized worksheet for evaluations. Those are created on a case by case basis depending on the measure VA is trying to capture per request.
- Requests for new supplies are submitted through Medapproved.
- Once deemed complete, accompanying vendor quote is sent to Corporate Purchasing for benchmarking, pricing and contract review. Corporate Purchasing provides written authorization to proceed.

Appendix 10 Updates

EXPOSURE CONTROL PLAN UPDATES

1. Original Document, July 1992
2. September 1995
3. December 1996
4. December 1997
5. October 1998
6. October 1999
7. October 2000
8. March 2001
9. October 2001
10. December 2002
11. December 2003
12. March 2004
13. December 2004
14. December 2005
15. March 2006
16. March 2007
17. January 2008
18. July 2008
19. April 2009
20. February 2010
21. April 2010 (IPC)
22. June 2016
23. May 2019

Appendix 11 Glove Recommendations

Gloves are selected on the basis of material and intended use. Vinyl gloves are less durable and more prone to tears and leakage than are latex or nitrile gloves. Use of vinyl gloves is recommended when minimal or no direct contact with wet blood or potentially infectious body fluids is anticipated. Use of nitrile or latex gloves is recommended for moderate to high risk tasks that involve direct, heavier contact with blood or body fluids, i.e. sufficient contact to wet the glove. See "Glove Recommendations" for additional selection criteria and examples.

Glove Selection Recommendations

Glove Selection	Criteria for use:	Examples of use:	Durability
Vinyl	<ul style="list-style-type: none"> • Short term use • Contact with intact skin • Minimal contact with blood or bloody fluids • No chemical contact • Low levels of twisting or abrasion. 	<ul style="list-style-type: none"> • Handling of intact patient skin (bedding change, turning, etc.) • Patient transport • Non-invasive physical examinations • Specimen container transport and handling • Handling of urine or stool that is not visibly bloody • Phlebotomy • Peripheral IV insertion, removal, manipulation 	Low
Nitrile (or latex)	<ul style="list-style-type: none"> • Twisting, torqueing, abrasion, snagging. • Heavier contact with blood, vaginal secretions, CSF, joint fluids, or any other bloody fluid • Sufficient contact to "wet" gloves 	<ul style="list-style-type: none"> • Surgery • Vaginal & C-section deliveries • Vaginal examination • Rectal examination • Wound care involving blood or drainage • Central IV catheter insertion • Other invasive examinations • Other invasive procedures 	Moderate to high. Double glove for high risk tasks.