WSU Guidelines for Bloodborne Pathogen Occupational Exposure Management / Medical Services

Background

Health care professionals are at risk that they might be injured at work by being stuck, cut or splashed with fluids containing infectious agents. Even though the risk is small, you still need to know what to do.

The Bloodborne pathogens that worry us are hepatitis B virus (HBV), hepatitis C virus (HCV), and human immunodeficiency virus (HIV). The chance of developing infection depends on the type of injury, the type and amount of fluid involved and the type of virus. Potentially infectious body fluids are blood or blood products, cerebrospinal fluid, pleural fluid, peritoneal fluid, pericardial fluid, amniotic fluid, vaginal secretions and semen. One approach to remembering the approximate risk of being infected by a needle-stick is that there is an approximately 10-fold difference in the level of risk between each of the three worrisome viruses when listed in the alphabetic order:

Virus	Risk	
HBV	6-30%	
HCV	2%	
HIV	0.3%	

(Online resources are listed on the last page on this monograph BUT please follow the protocol below first)

WHAT IF YOU ARE EXPOSED?

One of the vaccines you received provides antibodies to prevent infection for highest acquisition risk virus, HBV. For the HCV and HIV, we do not yet have effective immunizations. Do your best to not have to trigger the following protocols by remembering that you can prevent exposure by **being alert, aware, and careful** while using and disposing of a sharp and being around infectious bodily fluids.

Should an exposure occur, *please don't panic*. The vast majority of body substance exposures do not result in harm. Time matters though, so please proceed as follows (see next two pages):

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Immediate Actions

Wash:

- For punctures or lacerations, bleed the site well under running water and wash with soap and water.
- For mucous membrane splashes (eyes, nose or mouth), immediately flush with copious amounts of water.
- Carefully remove all soiled clothing and wash again if it was necessary to remove soiled clothing.

Gather and write down information about what happened because this is needed to do testing on the patient and to decide whether you might need post-exposure prophylaxis:

- The source patient's name, hospital number, date of birth, and location in the hospital or clinic.
- Name and contact information of your clinical supervisor at the time of the incident.
- The date and time the incident occurred.
- The type of potentially infectious materials that was involved in the incident blood, amniotic fluid, etc.
- The details of the incident for example, the type of needle or splash, what that needle had been in, the depth of the injury, whether you were wearing protective equipment such as gloves or face mask, etc.

Notify the nurse or health care provider in charge of the area where the incident occurred. The hospital's or clinic's personnel will initiate the process of consenting the patient to have blood tests to determine if he or she might be harboring an infectious agent. You are NOT the person to consent the patient or to draw the blood from the source patient. Complete the clinical agency's Incident Report form.

Tests that designated personnel will do on the source patient if the exposure warrants it and the patient's infectivity is not known are:

- Hepatitis B surface antigen (HBsAg).
- Hepatitis C antibody (anti-HCV).
- HIV antibody (with consent).
- In high risk source patients believed or known to be HIV positive, and/or known to be anti-HCV positive, viral "load" studies (i.e., quantitative viral RNA) should also be sent for each respective virus.
- If the patient refuses to have blood drawn, the Spokane Health Department will be contacted.

Actions within Two Hours

Physician evaluation to determine if the Affected Person might need post-exposure prophylaxis.

During regular work hours: Affected persons who are residents or students should report to MultiCare Rockwood Urgent Care, 400 E. 5th Ave, Spokane, WA, Phone: (509) 838-2531. Call Urgent Care immediately and an urgent visit will be arranged. It is important to tell the receptionist that an exposure has occurred so that the individual will be seen quickly.

After hours or on weekends or holidays: Affected Persons should report to Deaconess Emergency Department, 800 W. 5th Ave., Spokane, WA, Phone: (509) 473-5800.

While the Affected Person is in clinic or in the ER being evaluated, he/she must contact one of the course/clerkship/rotation preceptors or supervisors (course director, clerkship coordinator, or an attending physicians or small group leader) depending on which program is involved. Don't waste time calling the supervisor or preceptor prior to being evaluated.

Tests that will need to be ordered if the exposure warrants it are:

- 1. Hepatitis B surface antibody (HBsAb) if the Affected Person has not completed Hepatitis B immunization series or if the level of protective antibody from such a series is unknown.
- 2. Hepatitis C antibody (anti-HCV).
- 3. HIV antibody (with consent).
- 4. If indicated and the affected person elects to take prophylactic treatment, additional Baseline blood tests will include CBC, renal function, hepatic function, and pregnancy test.

Actions within 24 Hours

WSU students must complete a WSU incident form that is available on-line within 24 hours of the incident (http://hrs.wsu.edu/managers/incident-report/). The attending provider will be asked to send the "health care professional's written opinion" to the respective program supervisor stating that the student was seen and advised as to follow-up care. Files will be kept confidentially in each program office.

WSU Elson S. Floyd College of Medicine Students: Complete WSU Incident Report (see below for link) and use the Spokane campus 4-digit mail code: 1495.	Students in Spokane should report to: 8-5PM: MultiCare Rockwood Urgent Care, 400 E. 5 th Ave., Spokane, WA (509) 838-2531 After MultiCare Rockwood Urgent Care hours: Deaconess Emergency Department	Students outside of Spokane should report to their community's clinic or ER	If WSU Elson S. Floyd College of Medicine students have unanswered questions, contact Office of Student Affairs. 509-368- 6534 (8am-5pm PST), Ask for compliance staff.
WSU Nursing students Complete WSU Incident Report (see below for link) and use the Spokane campus 4-digit mail code: 1495. The clinical instructor or preceptor should contact the College of Nursing Associate Dean for Academic Programs (509) 324-7335 or Assistant Dean (509) 324- 7241.	Spokane-based students Students who do not carry personal medical insurance but have paid for the WSU mandatory Health and Wellness Plan (\$100.00) are entitled to services at: 8-5PM: MultiCare Rockwood Urgent Care, 400 E. 5 th Ave., Spokane, WA (509) 838-2531 After MultiCare Rockwood Urgent Care hours: Deaconess Emergency Department Identify yourself as a WSU student when you report	Yakima-based students MON-SAT, 8-6PM Mountain View Medical Clinic 3904 Terrace Heights Drive, Suite D Yakima, WA (509) 902-1931 or Hospital For Yakima-based faculty Occupational Health Clinic- Yakima Should WSU students in Yakima incur an exposure, the student must notify their clinical faculty. The clinical faculty will notify	Vancouver and Tri-Cities students WSU does not have official agreements established with any medical facilities in the Vancouver and Tri-Cities areas. If medical treatment is necessary, students will need to be seen at their assigned clinical location or nearest medical facility. Students in Vancouver and Tri-Cities are not required to pay the mandatory health fee, but are responsible for any medical costs associated with medical treatment for exposure to infectious agents.
WSU Pharmacy students Complete WSU Incident Report (see below for link) and use the Spokane campus 4-digit mail code: 1495. The student should notify their Preceptor, who will notify the Assistant Director of Experiential Programs (509) 358-7659.	Spokane-based students Students who do not carry personal medical insurance but have paid for the WSU mandatory Health and Wellness Plan (\$100.00) are entitled to services at: 8-5PM: MultiCare Rockwood Urgent Care, 400 E. 5th Ave., Spokane, WA (509) 838-2531 After MultiCare Rockwood Urgent Care hours: Deaconess Emergency Department Identify yourself as a WSU student when you report	MON-SAT, 8-6PM Mountain View Medical Clinic 3904 Terrace Heights Drive, Suite D Yakima, WA (509) 902-1931 or Hospital	Students in other geographic locations WSU does not have official agreements established with any medical facilities in the other geographic locations. If medical treatment is necessary, students will need to be seen at their assigned clinical location or nearest medical facility.

^{**}WSU Students are responsible for all clinic visits, medication, laboratory, and any other related costs that occur after the incident. Students should consider purchase of health care insurance that may assist with these additional costs. Students should notify their clinical site faculty and college program directors of financial issues pertaining to Bloodborne pathogen exposure. The mandatory health and wellness fee is applicable to students enrolled in 7 or more credits (optional coverage is available for those enrolled in fewer).

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Online Resources:

- 1. CDC Emergency Needle stick Information: http://www.cdc.gov/niosh/topics/bbp/emergnedl.html
- 2. Needle stick Risk Assessment Calculator: http://www.medicinecalculator.com/hiv-needle-stick-risk-assessment-stratification-protocol-rasp/index.html