

Hepatitis B Virus

Hepatitis C Virus

Human Immunodeficiency Virus (HIV)

**Risk of infection with blood borne viruses:**

Exposure to blood borne viruses in the clinical setting requires both an injury (i.e. percutaneous injury from a needle or other sharp object, a splash of blood or other body fluid onto a mucous membrane or non-intact skin, or a human bite that breaks the skin) and contact with blood or body fluid capable of transmitting a blood borne virus. The risk of infection can be greatly reduced by putting in place proper [infection control practices](#). In the event of potential exposure, students must seek immediate medical attention and report the incident at the earliest opportunity to their clinical supervisor or Program Director.

**Symptoms of blood borne virus infection:**

Hepatitis B and C – No symptoms OR fatigue, loss of appetite, abdominal discomfort, jaundice, change in colour of urine and stool, rash, sore joints; occurring within six weeks to six months after the exposure.

HIV – No symptoms OR flu-like symptoms occurring within weeks of exposure; unexplained weight loss, chronic diarrhea, swollen lymph nodes, fever, fatigue or opportunistic infections.

**Risk of transmitting blood borne viruses:**

Students who perform or assist in performing exposure-prone procedures risk transmitting blood borne viruses to their patients. Exposure-prone procedures include invasive procedures where there is the potential for direct contact between the skin (usually a hand finger or thumb) of the student and sharp instruments, needle tips, or sharp tissues (spicules of bone or teeth) in body cavities, wounds, or in poorly visualized, confined anatomical sites.

**Hepatitis B immunization and serology:**

Students in health professional programs must be protected with a series of Hepatitis B vaccinations unless they are known to have chronic Hepatitis B infection or are immune due to naturally acquired infection. Post-immunization serologic testing for immunity is required for health care workers and child care workers. For details click on [Hepatitis B Immunization & Serology Information](#).

**Pre-placement testing and reporting:**

- Postgraduate Medicine students must comply with the CPSO Blood Borne Viruses Policy and self-report positive serology to the CPSO and their Assistant Dean (reference: [CPSO Blood Borne Viruses Policy](#)).
- Midwifery, Physician Assistant and Undergraduate Medicine students may perform or assist in performing exposure-prone procedures during their training, and are therefore obligated to know their status with respect to blood borne viruses (reference: [COFM Blood Borne Viruses Policy](#)). Students in these programs must self-report positive serology to the Assistant/Associate Dean of their program.
  - \* Test for Hepatitis B infection (HBsAg = surface antigen) required dated after March 1st the year of program entry and repeated one or more months after completion of a documented Hepatitis B primary vaccination series if required. Do not have the test within 28 days after a Hepatitis B vaccine to avoid the possibility of a false positive result. NOTE: HBsAg (ANTIGEN) is a different test than anti-HBs (ANTIBODY) and is required even if anti-HBs is positive.
  - \* Tests for Hepatitis C antibody and HIV antibody required dated after March 1st the year of program entry and are valid for four years.
- Testing and/or reporting for blood borne viruses is not required for students in other health professional programs prior to their program start.

**Questions?** Contact the Health Screening Office, hrsadmin@mcmaster.ca, 905-525-9140 ext 22249

Click on the links below for more information:

[Public Health Ontario Routine Practices Fact Sheet](#)

[OHA/OMA Blood Borne Diseases Surveillance Protocol for Ontario Hospitals](#)

Hepatitis B: [Public Health Agency of Canada Hepatitis B Get the Facts](#)

Hepatitis C: [Public Health Agency of Canada Hepatitis C](#)

HIV/AIDS: [Government of Canada HIV and AIDS](#)