

Transfusion Camp for Nurse Practitioners & Non-Physician Prescribers

Program

Upon completion of Transfusion Camp for nurse practitioners and non-physician prescribers, the learners will be able to:

INDICATIONS FOR BLOOD PRODUCTS

- 1. Appropriately prescribe components (RBC, plasma, platelets, and cryoprecipitate)
- 2. Perform a preoperative bleeding history
- 3. Interpret coagulation testing results
- 4. Have a reasonable approach to the correction of coagulation prior to procedures

BLOOD BANK TESTING

- 5. Summarize basics about blood bank tests and pre-transfusion compatibility testing
- 6. Explain the implications of a positive antibody screen
- 7. Know when to screen patients for platelet alloimmunization

RISKS OF TRANSFUSION

- 8. Obtain informed consent for transfusion
- 9. Prevent, diagnose, manage and report acute and delayed transfusion reactions
- 10. State the current risks of transfusion-transmitted infections
- 11. Describe challenges to transfusion safety (getting the right blood to the right patient)

INDICATIONS FOR MANUFACTURED BLOOD PRODUCTS

12. Appropriately prescribe some fractionated blood products (coagulation factor concentrates)

SPECIAL TRANSFUSION SITUATIONS – For Acute Care NPs

- 13. Know when to order irradiated blood components
- 14. Develop an approach to patients with congenital or acquired bleeding disorders (including reversal of common anticoagulants)
- 15. Manage a massively hemorrhaging patient, including surgical, trauma and obstetric patients, with discussion of hemostatic medications (antifibrinolytics)

TARGET AUDIENCE

This course is targeted at nurse practitioners in adult, geriatric, and/or pediatric care, and in acute care, who are looking to obtain competency to prescribe blood components and blood products.

Transfusion Camp is hosted by experts at Vancouver Coastal Health Authority and Fraser Health Authority. However, leaners from any British Columbia health authority/jurisdiction can register for the course.

Depending on location and mode of delivery, there may be a maximum number of attendees allowed per Transfusion Camp.

ATTENDEE EXPECTATIONS

PARTICIPATION

Learners are expected to:

- 1. Attend all sessions.
- 2. Actively participate during lectures and team-based learning seminars.
- 3. Refrain from excessive use of interruption devices (mobile phones).
- 4. Arrange not to be on call the night before; and the days of the Camp.
- 5. Complete evaluations.

COST

- 1. Registering for the course is free.
- 2. Lunch and travel/accommodations are not provided. Light refreshments at breaks may be provided depending on location.

REGISTRATION

- 1. Learners must have their local program administrator's approval to register.
- 2. Register by contacting your local program administrator and Takiko Sato (<u>takiko.sato@vch.ca</u>).

COURSE INFORMATION

CONTENT

- Transfusion Camp consists of three modules with the third module covering acute care topics.
- Course materials are prepared by the Transfusion Camp for Non-Physician Prescribers Steering Committee (TCNPP) (see membership below).
- Course materials leverages content developed for another Transfusion Camp which is targeted at post-graduate medical trainees and which is developed by transfusion experts at the University of Toronto.

FORMAT

Transfusion Camp consists of three modules, each module can be completed in one day and include pre-readings, pre-recorded lectures and team-based learning seminars.

- The timing of each Transfusion Camp is tailored to a group (e.g. modules may be delivered over 3 consecutive days, over a week, or a couple of months).
- Learners read the pre-readings prior to completing a module, view the lectures on their own or in groups, and attend team-based learning seminars in groups.
- The delivery of each Transfusion Camp is tailored to a group and is dependent on the circumstances (e.g. groups may meet in person or remotely via webcast/conferencing).
- Learners are informed of the format of their Transfusion Camp well in advance of the first session. Enquiry about timing, delivery format and location can be made to the local program administrator or Takiko Sato (<u>takiko.sato@vch.ca</u>) or <u>transfusioncamp@blood.ca</u>.

MATERIAL & CERTIFICATION

- Learners will be provided with access to a **course portal** to access pre-reading materials, lectures (slides and recordings), seminar guide and questions, and additional transfusion medicine resources. Access is provided a minimum of two weeks prior to start of module 1. Access is removed one year after completion of last module.
- Course materials **must not be used or distributed** outside of Transfusion Camp without the consent of the Transfusion Camp organizers.
- Course materials are provided for **educational purposes only**. They are not intended to be a substitute for the advice of a physician and should be assessed in the context of the applicable medical, legal and ethical requirements in any individual case.
- Learners will be provided with a **Certificate of Course Completion**. Learners must complete modules 1 and 2, and complete the pre-test and post-test exams to obtain a certificate.

COURSE SCHEDULE

Module 1: BLOOD COMPONENT INDICATIONS & ADMINISTRATION – January 5, 2022

Pre-course exam		
Dr. Jeannie Callum	Red Cell Transfusion (pre-recorded lecture, 45 minutes)	
Dr. Yulia Lin	Basic Blood Bank Testing (pre-recorded lecture, 30 minutes)	
Dr. Katerina Pavenski	Platelet Transfusion (pre-recorded lecture, 45 minutes)	
Dr. Aditi Khandelwal	Plasma, PCC & Cryoprecipitate (pre-recorded lecture, 60 minutes)	
Module 1 Seminar A: Triggers for RBC and platelet transfusions (75 minutes)		
Module 1 Seminar B: Plasma, PCC & Cryoprecipitate (60 minutes)		

Module 2: COMPLICATIONS: COMPATIBILITY, ACUTE & LONG TERM TRANSFUSION RISKS & ERRORS – January 12, 2022

Dr. Cserti-Gazdewich	Acute Non-infectious Reactions (pre-recorded lecture, 45 minutes)	
Dr. Steven Drews	Acute & Delayed Transfusion Transmitted Infections (pre-recorded lecture, 30 minutes)	
Dr. Waseem Anani	Delayed Non-infectious Reactions (pre-recorded lecture, 30 minutes)	
Dr. Katerina Pavenski	Informed Consent (pre-recorded lecture, 30 minutes)	
Dr. Nadine Shehata	Alloimmunization & Anemia in Pregnancy (pre-recorded lecture, 30 minutes)	
Dr. Yulia Lin	Pre-operative Patient Blood Management (pre-recorded lecture, 45 minutes)	
Module 2 Seminar A: Labile Component Reactions (90 minutes)		
Module 2 Seminar B: "Delayed or Derivative" Transfusion Reactions (90 minutes)		

Module 3: ACUTE AND SPECIAL TRANSFUSION SITUATIONS – January 19, 2022

Dr. Zachary Liederman	Bleeding Assessment & Approach to INR/PTT (pre-recorded lecture, 45 minutes)	
Dr. Rita Selby	Reversal of antiplatelets & direct anticoagulants (pre-recorded lecture, 40	
	minutes)	
Dr. Wendy Lau	Neonatal & Pediatric Transfusion Cases (pre-recorded lecture, 30 minutes)	
Dr. Katerina Pavenski	Massive Hemorrhage: Real World Application (pre-recorded lecture, 60 minutes)	
Module 3 Seminar A: Perioperative Bleeding Assessment (90 minutes)		
Module 3 Seminar B: Massive, Disaster Bleeding Cases (90 minutes)		
Post-course exam		

Notes:

Pre-and post-course exams consist of online electronic surveys emailed to all learners prior to completing module 1 and after completing their last module, respectively. A list of pre-reading materials and recorded lectures for each module are shared on the course portal.

STEERING COMMITTEE

Andrew Shih, MD, FRCPC University of British Columbia

Kevin Chen, MN, NP(F) Vancouver General Hospital

Michelle Sims, MN, NP(F) Vancouver Costal Health Authority Douglas Morrison, MD, FRCPC Provincial Health Services Authority

Wendy Bowles NP F Fraser Health Authority

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