Blood Management: Toward Better Patient Safety

Overview:
Learners will gain knowledge about the purpose & components of a successful Blood Management Program. Current clinical literature supporting conservative transfusion practice will be reviewed and strategies will be addressed to enhance patient safety, promote optimal outcomes and contain cost. The program is approximately 60 minutes in length.

Learning Objectives:
1. List the (3) key goals of a blood management program
2. Be able to discuss how a conservative transfusion strategy promotes optimal patient care
3. Be able to discuss (3) strategies used to support optimal blood management
4. Describe how a successful blood management program can lead to better use of resources

Accreditation—Nurses:
This program may be approved for 1.0 contact hours of continuing education credit. Continuing education credit is approved by the Iowa Board of Nursing through a partnership between MVRBC and Indian Hills Community College, Ottumwa, IA.

Special Course Requirements:
Program is held at the Mississippi Valley Regional Blood Center in Davenport.

Distance Learning Requirements:
This module is under development for distance learning via DVD (for computer play) or web-accessed program. Learners must complete entire program and pass quiz to receive credit. Instructions for completing course will be provided at registration.

System requirements (for web access):
1. Internet Explorer or comparable web browser
2. Flash Player—current version

Blood Product Lifecycle—from donor to patient

Overview:
Learners will follow a unit of blood from the donor through product manufacture and distribution to the hospital. This program is held at the Mississippi Valley Blood Center in Davenport, IA and is approximately 50-60 minutes in length. The class is a combination of lecture & includes a tour of the donor center and manufacturing labs.

Learning Objectives:
5. List key elements of donor selection
6. Name (3) types of donations MVRBC donors choose to make
7. List (4) blood products manufactured by the blood center
8. Describe the high level lifecycle of a unit of whole blood—from the donor to the end user

Accreditation—Nurses:
This program may be approved for 1.0 contact hours of continuing education credit. Continuing education credit is approved by the Iowa Board of Nursing through a partnership between MVRBC and Indian Hills Community College, Ottumwa, IA.

Special Course Requirements:
Program is held at the Mississippi Valley Regional Blood Center in Davenport.

Distance Learning Requirements:
Not currently available
Blood Products & Beyond:

Overview:
Learners will review the physiology of blood, and its use in the body. Available blood products, their indications & recommended usage as well as transfusion reactions, & blood use in trauma will be covered. This program is approximately 60 minutes in length.

Learning Objectives:
1. Describe the basic functions of blood in the human body
2. Describe the various blood products available from Mississippi Valley Regional Blood Center
3. Identify the appropriate indications & recommended dosing for each blood product
4. Identify common transfusion reactions by cause, symptoms and management

Accreditation—Nurses:
This program may be approved for 1.0 contact hours of continuing education credit. Continuing education credit is approved by the Iowa Board of Nursing through a partnership between MVRBC and Indian Hills Community College, Ottumwa, IA.

Special Course Requirements:
none

Self-study Learning Requirements:
This module is under development for distance learning via DVD (for computer play) or web-accessed program. Learners must complete entire program and pass quiz to receive credit. Instructions for completing course will be provided at registration.

System requirements (for web access):
3. Internet Explorer or comparable web browser
4. Flash Player—current version

Transfusion: What, Why and How:

Learners will review available blood products, their indications & recommended usage, with an emphasis on transfusion administration processes and their role in patient safety. This program is approximately 60 minutes in length.

Learning Objectives:
1. Describe the various blood products available from Mississippi Valley Regional Blood Center
2. Identify the appropriate indications & recommended dosing for each blood product
3. Describe the role of the transfusion service in ensuring patient safety during a transfusion
4. Name the key elements of the nurse’s role in ensuring patient safety during a transfusion

Accreditation—Nurses:
This program may be approved for 1.0 contact hours of continuing education credit. Continuing education credit is approved by the Iowa Board of Nursing through a partnership between MVRBC and Indian Hills Community College, Ottumwa, IA.

Special Course Requirements:
none

Self-study Learning Requirements:
This module is currently available for distance learning via DVD (for computer play) or web-accessed program. Learners must complete entire program and pass quiz to receive credit. Instructions for completing course will be provided at registration.
System requirements (for web access):
1. Internet Explorer or comparable web browser
2. Flash Player—current version

Transfusion Safety:

Learners will review the indications for transfusion, administration safety and receive an in-depth review of transfusion reactions and the nurses’ role. This program is approximately 60 minutes in length.

Learning Objectives:
1. Be able to identify the appropriate indications for red cell transfusion.
2. Be able to identify the dose/response for red blood cells.
3. Be able to name the key elements of the nurses’ role in identification and management of transfusion reactions.
4. Be able to identify common transfusion reactions by cause, symptoms and management.

Accreditation—Nurses:
This program may be approved for 1.0 contact hours of continuing education credit. Continuing education credit is approved by the Iowa Board of Nursing through a partnership between MVRBC and Indian Hills Community College, Ottumwa, IA.

Special Course Requirements:
none

Self-study Learning Requirements:
This module is currently available for distance learning via DVD (for computer play) or web-accessed program. Learners must complete entire program and pass quiz to receive credit. Instructions for completing course will be provided at registration.

System requirements (for web access):
1. Internet Explorer or comparable web browser
2. Flash Player—current version

Anemia 101:

Learners will review the pathophysiology, causes and treatment associated with the patient with symptoms of anemia. This program is approximately 60 minutes in length.

Learning Objectives:
1. Be able to describe the primary function of red blood cell in the human body
2. Be able to list the three (3) major causes of anemia
3. Be able to identify the key elements of the evaluation process for the patient with anemia
4. Be able to identify the appropriate indications for transfusion as a treatment for anemia

Accreditation—Nurses:
This program may be approved for 1.0 contact hours of continuing education credit. Continuing education credit is approved by the Iowa Board of Nursing through a partnership between MVRBC and Indian Hills Community College, Ottumwa, IA.

Special Course Requirements:
none

Self-study Learning Requirements:
This module is currently available for distance learning via DVD (for computer play) or web-accessed program. Learners must complete entire program and pass quiz to receive credit. Instructions for completing course will be provided at registration.

System requirements (for web access):
1. Internet Explorer or comparable web browser
2. Flash Player—current version

**Therapeutic Apheresis:**

Learners will review the clinical rationale, & indications for Therapeutic Apheresis as a treatment. The course provides an overview of the technical process, discusses patient care & possible complications associated with the therapy. This program is approximately 60 minutes in length.

**Learning Objectives:**
1. Describe (at a high level) the process of Therapeutic Plasma Exchange (TPE)
2. List & discuss 5 treatment considerations related to TPE
3. Describe possible complications of treatment
4. List & discuss 5 patient education considerations related to TPE
5. Describe the process for ordering TPE services from MVRBC

**Accreditation—Nurses:**

This program may be approved for 1.0 contact hours of continuing education credit. Continuing education credit is approved by the Iowa Board of Nursing through a partnership between MVRBC and Indian Hills Community College, Ottumwa, IA.

**Special Course Requirements:**
none

**Self-study Learning Requirements:**
This module is currently available for distance learning via DVD (for computer play) or web-accessed program. Learners must complete entire program and pass quiz to receive credit. Instructions for completing course will be provided at registration.

System requirements (for web access):
1. Internet Explorer or comparable web browser
2. Flash Player—current version

**Plasma & Platelets:**

This program will review the physiology, discuss clinical rationale/indications for transfusion, and describe best practices specific to the care of patients receiving plasma or platelets. Program is approximately 60 minutes in length.

**Learning Objectives:**
1. Describe the primary function of plasma and platelets in the body
2. List the indications & dosing recommendations for transfusion for each product
3. Be able to name the key elements of the nurses’ role in administration, identification and management of transfusion reactions.
4. Be able to identify common transfusion reactions by cause, symptoms and management.

**Accreditation—Nurses:**
This program may be approved for 1.0 contact hours of continuing education credit. Continuing education credit is approved by the Iowa Board of Nursing through a partnership between MVRBC and Indian Hills Community College, Ottumwa, IA.

**Special Course Requirements:**
none

**Self-study Learning Requirements:**
This module is not available for distance learning.