

How Does Bloodless Medicine and Surgery Work?

(continued)

Argon Beam Coagulator: Coagulates or clots blood during surgery to minimize blood loss.

Hemostatic Drug Therapy: Medications that assist with the clotting functions of blood.

Volume Expanders and Hemodilution: Enhances the circulation of patient's own blood via intravenous fluids.

Synthetic Erythropoietin: Stimulates bone marrow to produce enough red blood cells to obviate transfusion.

Harmonic Scalpel: A scalpel that employs vibration and friction to cut and cause blood clotting at virtually the same time.

Electro Cautery: Uses heat to stop vessels from bleeding.

How Can I Be Sure I Receive Bloodless Care?

Our clinical team has agreed to provide bloodless (transfusion-free) medicine and surgery to patients who request it. Institute coordinators provide patients with information and counseling on Bloodless care and assist them in completing appropriate documents. Individuals are then identified as "bloodless patients" throughout their hospital stay, allowing physicians, nurses, and other members of the healthcare team to honor their request.



Our Expertise

Since its inception in 1994, The Institute for Patient Blood Management and Bloodless Medicine and Surgery at Englewood Hospital and Medical Center has established itself as a world-recognized leader in patient blood management.

Physicians from every discipline have been specially trained and practice bloodless medicine and surgery at the Institute. Tens of thousands of patients from the US and abroad have received medical treatment and undergone highly complex procedures such as brain, open-heart, orthopedic and gastrointestinal surgeries without blood transfusions at Englewood Hospital.

Medical professionals from leading institutions across the country and throughout the world have come to the Medical Center to learn how our physicians use proven, effective alternatives to blood transfusion to improve patient outcomes. The U.S. government as well as governments of other countries have consulted with Englewood Hospital to learn how to apply blood management techniques in dealing with catastrophic situations when little or no blood is available.

Institute for Patient Blood Management & Bloodless Medicine and Surgery

Our Mission:

Improve patient outcomes through optimal blood management.

This will be achieved through a standard of care in which patient blood management (PBM) strategies are evaluated for use based on the most current research, evidence, and outcomes.

Vital to this end is the provision of a structured Bloodless (transfusion-free) program that provides patients for whom blood is not an option with consistently accessible, high-quality care, guided by ethical and humanistic principles.

As a result of the ongoing education of physicians, nurses, and other healthcare providers in current and emerging transfusion issues, Patient Blood Management guidelines will be implemented throughout the continuum of care within the Medical Center system.

The Institute will also maintain its position as the global leader in training and educating healthcare professionals in Patient Blood Management.

IMPROVING PATIENT OUTCOMES THROUGH PATIENT BLOOD MANAGEMENT



**The Institute for
Patient Blood Management &
Bloodless Medicine and Surgery**

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Patient Blood Management

Through The Institute for Patient Blood Management and Bloodless Medicine and Surgery, we at Englewood Hospital and Medical Center are proud to offer a progressive approach to blood management to all patients in our care. Our use of safe and effective transfusion-free medical and surgical techniques reduces the many risks that are associated with blood transfusions.

The Institute's goals are to improve patient outcomes, respect the needs of patients for whom blood transfusion is not an option, and educate other medical professionals in how Patient Blood Management can improve medical and surgical outcomes for all healthcare consumers.

Patient Blood Management FAQ

What is Patient Blood Management?

Patient blood management (PBM) is the use of scientifically based medical and surgical techniques aimed at conserving a patient's own blood and minimizing or avoiding the need for the transfusion of donor blood components.

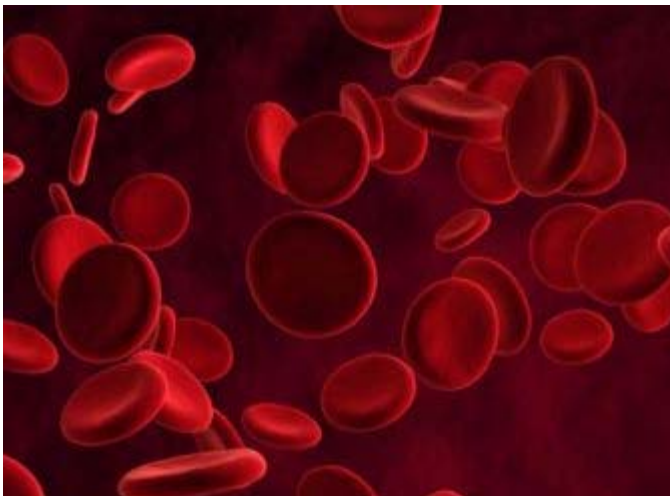
What are the Benefits of PBM?

There is strong scientific evidence that, overall, patients who avoid transfusions have fewer complications, faster recoveries and shorter hospital stays. Specific benefits of organized Patient Blood Management include:

- Lower rates of the most serious post-operative complications, including heart attack, stroke, and infections
- Decreased risk of immunological complications and allergic reactions
- Less exposure to blood-borne viruses and infections
- No risk of receiving the wrong blood type

How Does PBM Work?

The practice of Patient Blood Management involves a combination of medical and surgical techniques, as well as technology and behavioral strategies to decrease blood loss and enhance a patient's own blood supply.



I Am Having Surgery.

How Can I Best Prepare?

At the Medical Center, PBM is a hospital-wide effort. An entire healthcare team of physicians, nurses, pathologists, pharmacists, dietitians and support staff work together to assess and address each patient's blood management needs.

Before Surgery: Based on the results of a patient's blood test, doctors may recommend a regimen of medications and dietary supplements to ensure optimal levels of hemoglobin (an oxygen-carrying protein in red blood cells).

During Surgery: Doctors may use a variety of state-of-the-art technologies and techniques to minimize blood loss (see "Bloodless Surgery FAQ" for detailed information).

After Surgery: Blood loss will be minimized and blood production enhanced through medication and nutrition therapy as well as technology—including the use of post-operative Blood Salvage and Hyperbaric Oxygen Therapy.

Bloodless Surgery FAQ

Why Bloodless Surgery?

Many people object to receiving blood or blood products as part of their medical treatment. Some, such as Jehovah's Witnesses, object due to religious beliefs, while others do so as a result of healthcare concerns, knowledge of potential complications, or other personal convictions.

The benefits of bloodless surgery include decreased risk of infection and other complications. (For more details, see "What Are the Benefits of PBM" earlier in this brochure.)

How Does Bloodless Medicine and Surgery Work?

Through our Institute for Patient Blood Management and Bloodless Medicine and Surgery, we offer many high-quality, safe, and effective alternatives to blood transfusions. Among the technologies that make bloodless surgery possible are:

Minimally Invasive Surgery & Meticulous Surgical Techniques: Surgical instruments and techniques specially designed to minimize blood loss by using the smallest or most efficient incisions.

Blood Salvage/Cell Saver: A device that recycles a patient's own blood that is lost during surgery, collects it, cleans it and returns it to the patient.

Oximetry: Tracks oxygen levels during surgery.

Hyperbaric Oxygen Therapy: Distributes high concentrations of oxygen into blood prior to surgery, helping patients better withstand surgical procedures.

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