Don’t proceed with elective surgery in patients with anemia until properly diagnosed and treated.

Anemia is common, presenting in approximately 1/3rd of patients undergoing elective surgery. There is often the misconception that anemia is harmless, when, in fact, it is independently associated with significant morbidity and mortality, as high as 30–40% in certain patient populations. Appropriate diagnosis followed by treatment of anemia improves patient readiness for surgery, aids in management of comorbid conditions, decreases length of stay and readmission rates, and reduces transfusion risks. Treatment modalities may include nutritional supplementations, such as iron, B12 and folate, changes in medication, management of chronic inflammatory conditions or previously undiagnosed malignancy, or other interventions based on the etiology. It is optimal to allow 21–30 days for diagnosis and management prior to surgery.

Don’t perform laboratory blood testing unless clinically indicated or necessary for diagnosis or management in order to avoid iatrogenic anemia.

Up to 90% of patients become anemic by day 3 in the intensive care unit. Although laboratory testing can aid in diagnosis, prognosis and treatment of disease, a significant number of tests are inappropriate or unnecessary. Anemia secondary to iatrogenic blood loss causes an increased length of stay and mortality. Increased phlebotomy for laboratory testing also increases the odds for transfusion and its associated risks. Unnecessary laboratory testing adds to the cost of care through laboratory test charges and also by increasing downstream costs due to unnecessary interventions, prescriptions, etc. Thus judicious use of laboratory testing is recommended, and testing should not be performed in the absence of clinical indications.

Don’t transfuse plasma in the absence of active bleeding or significant clinical and laboratory evidence of coagulopathy.

Recent studies demonstrate that plasma is often transfused inappropriately. In the absence of active bleeding and clear evidence of coagulopathy, current literature shows no reduction in blood loss or transfusion requirements with the use of plasma, but increased risk of transfusion-associated adverse events such as transfusion-related acute lung injury, transfusion-associated circulatory overload and allergic reactions. These transfusion-associated adverse events lead to poorer outcomes and increased cost of care.

Avoid bleeding and reduce transfusion risk by employing antifibrinolytic drugs.

Antifibrinolytic pharmacologic therapy has been shown to reduce blood loss and transfusion requirements in orthopedic and cardiovascular surgeries. Early administration of tranexamic acid, specifically within three hours, in trauma and obstetric hemorrhage significantly reduces mortality and bleeding. Recent review of numerous clinical trials utilizing antifibrinolytic therapy found reduced overall mortality and bleeding-related mortality without increased risk for thromboembolic events.

Avoid transfusion, outside of emergencies, when alternative strategies are available as part of informed consent; make discussion of alternatives part of the informed consent process.

Informed choice/consent regarding transfusion and effective alternatives should be standardized and consistently delivered. Throughout the world, there is wide variation amongst medical practitioners and hospitals with regards to medical knowledge about the true risks of transfusion, alternative to transfusion, and the delivery of this information to patients. Outside of the truly emergent clinical situation, transfusion should be avoided or limited when other interventions are available. Alternative strategies include, but are not limited to pharmacologic agents, cell salvage, normovolemic hemodilution and minimally-invasive surgical techniques. Additionally, transfusions may not be necessary in asymptomatic patients even in the presence of low hemoglobin concentrations.

These items are provided solely for informational purposes and are not intended as a substitute for consultation with a medical professional. Patients with any specific questions about the items on this list or their individual situation should consult their physician.
How This List Was Created

The Executive Committee and Board of Directors (BOD) of the Society for the Advancement of Patient Blood Management (SABM) had a strong desire to participate in the Choosing Wisely campaign. Participation allows SABM to align with the national Choosing Wisely® team and other specialty societies to further the mission of collaborative physician-patient health care delivery and responsible use of resources.

A Task Force was appointed from within the BOD to draft the initial set of recommendations. Evidence-based recommendations were based on our society’s foundational pillars and structured around published SABM Standards. A critical feature was the review of relevant literature for supporting evidence applicable to each statement. Ultimately, the draft recommendations were submitted to the membership for input via an email survey. This resulted in the final five statements for which evidentiary materials and pertinent references were written. The BOD approved the materials prior to submission. Recent review with updates was undertaken by the SABM Educational Oversight Committee.

Working with this initiative, our selected recommendations and integrated materials were further honed based on subsequent campaign review. This list and supporting material resulted in a publication in a peer-reviewed journal in 2019. SABM will also develop monitors to assess the impact of the initiative for our members and hospital affiliates. We foresee this as a vehicle for outreach to other professional societies, health care providers and patients.

Sources

The mission of the ABIM Foundation is to advance medical professionalism to improve the health care system. We achieve this by collaborating with physicians and physician leaders, medical trainees, health care delivery systems, payers, policymakers, consumer organizations and patients to foster a shared understanding of professionalism and how they can adopt the tenets of professionalism in practice.

To learn more about the ABIM Foundation, visit www.abimfoundation.org.


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### About the Society for the Advancement of Patient Blood Management

The Society for the Advancement of Patient Blood Management (SABM) was founded in 2001 by health care providers, nurses and physicians who saw the need for a new way of thinking about transfusion as a therapy. SABM included thought leaders who promulgated the concept of patient blood management as the new standard of care. The SABM mission is broad, its foundation based on appropriate evidence-based transfusion guidelines, the management of anemia, optimization of coagulation and minimization of bleeding, and utilization of interdisciplinary blood conservation strategies. The goal is improved patient outcomes.

Today, SABM is recognized as a key educational resource for patient blood management. SABM is grounded in scientific validation and evidence-based practices, and focused on promoting the patients’ best interest through effective and optimal patient blood management.

Given our mission and message, SABM is truly honored and proud to partner with the Choosing Wisely® campaign.

For more information or to see other lists of Five Things Physicians and Patients Should Question, visit www.choosingwisely.org.