

## Improving Documentation of Blood Product Consent in the Outpatient Setting Authors: Erica Beal, DO PGY-2, Frank Goodman, DO PGY-2, Martina Swinger, DO PGY-1, Tiffany Perez, DO PGY-1

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Postpartum hemorrhage(PPH) is the leading cause of maternal mortality worldwide. In the United States, hemorrhage that leads to blood transfusion is the leading cause of severe maternal morbidity.<sup>1</sup> Therefore, prompt access to blood products is necessary and decreases the risk of death in these cases. The American College of Obstetricians and Gynecologists has started a Safe Motherhood Initiative to address these issues. It is recommended to have antepartum discussions with the patient regarding their potential to refuse some or all blood products. This allows the physician to create a plan for the patient if postpartum hemorrhage were to occur. If blood replacement is not possible, achieving hemostasis in the most efficient and rapid manner is critical. The progression of care from observation, to intrauterine tamponade balloon, to hysterectomy should occur faster in women who refuse blood products.<sup>2</sup> It is important to form Rates of postpartum hemorrhage per 10,000 delivery hospitalizations protocols in order to address situations in which patients decline medical interventions including blood products. Informed consent PH with blood transfus should take place with each patient during their pregnancy regarding the risks and benefits of blood transfusions. Prior to this study obstetrical patients were consented verbally and during an initial PH with obstetric procedures obstetrical screening questionnaire (H1000) that was scanned into control hemorrh the electronic chart. This was inconsistently completed, rarely revisited, and difficult to access.

## **AIM Statements**

The primary goal of this project is to improve physician/patient communication for the purpose of capturing the annual documentation of the outpatient blood product consent of obstetrical patients from 70 to 75% compared to pre-education and pre-smart phrase documentations, with secondary goal of universal implementation throughout the OSU Healthcare system.

## **Project Design and Strategy**

clinics, as well as Morton Comprehensive Healthcare.

• The project took place across four clinic sites. The OSU Family ual Documentation Percentage of Blood Product Conser Medicine Women's Health Center, Healthcare Center and Eastgate • Key players include all Family Medicine Attendings & Residents, Administration, IT, Patient Service Representatives (PSR), and MAs/LPNs. Data was collected and separated into pre- and post-education groups from 9/2018 to 4/2020. • Prior to intervention, 36% of total patients had acceptance of blood

products documented. This rose to 70% of total patients at the end of year 1 and 93% at the end of year 2 with described interventions.

- 2017; 130:e168. Reaffirmed 2019.
- /media/Districts/District-
- II/Public/SMI/v2/19HEMGuidancePatientsWhoDeclineBlood1.pdf?dmc=1&ts=20190406T2036424614
- Qualitative Review." Anesthesia and Analgesia, U.S. National Library of Medicine, Jan. 2017, www.ncbi.nlm.nih.gov/pubmed/27557476.
- 4. Postpartum Hemorrhage. (n.d.). Retrieved April 6, 2019, from https://www.who.int/medicines/areas/priority\_medicines/Ch6\_16PPH.pdf Provided by the World Health Organization
- 5. We would also like to acknowledge Mrs. Heidi Holmes and OSU HIT for their assistance in data gathering.

Faculty Advisors: Sarah Hall, DO, Regina Lewis, DO

### Background





Committee on Practice Bulletins-Obstetrics. Practice Bulletin No. 183: Postpartum Hemorrhage. Obstet Gynecol

Patients Who Decline Blood Products. (2019, February). Retrieved April 6, 2019, from <u>https://www.acog.org/-</u>

3. Shaylor, Ruth, et al. "National and International Guidelines for Patient Blood Management in Obstetrics: A

# **Changes Made**

Oklahoma State University	<ul> <li>In addition to being consented</li> </ul>	
BLOOD AND BLOOD COMPONENT TRANSFUSION CONSENT	that is consistent with the paper consent is scanned into the E those at OSUMC as well as C consent tab was continued to • Smart Phrase(short text phra EMR) was continued to ensure documentation of blood produ- history of the obstetrical patie	
<ol> <li>It may become necessary for me to receive a transfusion of blood or blood components such as, but not limited to, fresh frozen plasma, platelets, or cryoprecipitate, depending on the judgment of my physician(s). This form provides basic information concerning this procedure and, if signed by me, authorizes its performance by qualified medical personnel.</li> <li>Most transfusions do not cause reactions or complications, but there are risks or possible complications</li> </ol>		
<ul> <li>Thist transitions do not cause reactions of complications, but there are risks of possible complications is that cannot be anticipated and prevented in some cases. I understand that my physician will only order a blood transfusion when in his or her judgment the relative risk of these complications is less than the risk of not having the needed transfusion. I understand that these risks may be minor and temporary including a slight bruise, swelling or local reaction in the area where the needle pierces the skin, or in response to the transfused material itself, which may cause headache, fever, or a skin reaction such as hives. If red blood cells are transfused, a serious reaction, such as an immediate or delayed hemolytic transfusion reaction or anaphylactic shock, is possible, but these are extremely rare.</li> <li>If you have donated blood or other blood components for yourself (autologous donation) or have selected a donor(s) for yourself (directed donation), it may be necessary to supplement these donations with homologous blood and/or components from the blood supplier.</li> <li>Every procedure involves some uncertainty and there is no guarantee of benefit from the use of blood or blood components. Infectious diseases may be transmitted by blood and include Viral Hepatitis, Acquired Immunodeficiency Syndrome (AIDS), or other viral, bacterial or parasitic diseases. I understand that the laboratory tests used to detect these infectious diseases are not foolproof but have been used along with a detailed health history on the donor to make the blood as safe as possible.</li> </ul>		
<ol> <li>I am aware that I have the right to refuse any blood transfusion. I understand that if I do refuse my physician's recommendation, I am responsible for the consequences or complications caused by my refusal. These problems might be serious or even life threatening. If I have any further questions on this matter, I will ask my physician.</li> <li>By signing this form you authorize the use of blood or blood components and acknowledge that the risks and alternative methods of treatment, including those risks inherent in foregoing all treatment, and the treatment which has been selected for you and to which you have agreed, have been fully explained to you. If you have any questions about this, you should talk to your doctor. You have the right to withdraw your consent at any time and the use of the blood or blood component will be terminated.</li> </ol>	<ul> <li>Changes were made to exist gestational dating, and import acceptance preference, to be product consent.</li> </ul>	
Date and Time Signature of Patient, Parent, Legal Guardian or Responsible Person (Circle One)	<ul> <li>OSU/OMECO Family Medicin Women's Health month to usa tab, and OB cards.</li> </ul>	
	<ul> <li>All deliveries performed by C 2018 to April 2020 were individual hemorrhage. It was noted for transfusion or other intervention other diagnoses related to por chart, as well as patient race.</li> </ul>	
	<ul> <li>OSUMC Transfusion Commit to utilize EPIC EMR to capture to access blood product access universal in the clinic as well a</li> </ul>	
	<ul> <li>Discussed with and planned surgery, obstetrics, and interr consent process study in the</li> </ul>	
Accept Blood Products? - Accept Blood Products Time taken: 1455 ② 3/6/2019 🚔 Values By + Create Note	Show: Row Info Last Filed Details All Choices	
<ul> <li>Accept Blood Products?</li> <li>Will you accept blood products, if needed?</li> </ul>		
Restore Close X Cancel	1 Previous 4 Next	
Outcomes and Les	ssons Learned	
<ul> <li>11 diagnoses of PPH/2 years.</li> </ul>	onsented in outpatient	
aligia ta blagal producto 1 pation	nto reacived blood producto	

clinic to blood products. 4 patients received blood products. Review of our consent process by transfusion committee demonstrated areas of capable improvement. • EMR templates provided easy, consistent tool to promote

data capture.



d verbally, this study initiated a paper consent process per consent process performed at OSUMC. This paper PIC chart for each patient and is easily accessible for OSU Women's Health clinic. EPIC blood product be utilized with every prenatal visit.

ase that automatically drops in templated text in to an re both consistency of electronic mineable uct consent as well as other vital components for the

ting OB cards (cards with identity information, tant OB lab values) to include patient blood product documented by provider upon completion of blood

ne residents were each again educated on their age of the blood product Smart Phrase, blood product

OSU/OMECO Family Medicine, beginning September vidually data mined to assess rates of postpartum each case whether the patient required blood ion. Other data points were also obtained including otential need for blood transfusion, consent present in

ittee was consulted to help develop a universal process re blood product acceptance. We also discussed easy ptance documentation in the EPIC chart that would be as in the hospital setting.

recruitment of interdepartmental specialties including nal medicine to be included in electronic blood product future.

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G1P0 EDD 6/27/2020, by Last Menstrual Period cw US on 2/21/2020		
ABO/RH: O+	Antibody: Negative	
Rubella: Immune	PAP: N/A due to age	
Serology: Negative	Hbs Ag: Negative	
HIV: negative	GBS: No results found for: GBSC	
Blood Products: Accepted		
Plans to Deliver at: OSUMC		

Plans to Breastfeed: Yes Future birth control: OCP Epidural: Yes

### Next Steps

Review, standardize, improve documentation of PPH in the inpatient setting for the Family Medicine department. Review OSU OBGYN's workflow of outpatient consent and continue interdepartmental collaboration.

 Assess integration of blood product consent flowsheet into other patient visit types.

 Assess financial outcomes to both facility and providers by improved documentation of PPH and management thereof.