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Learning Objectives

After participating in this program you should be able to....

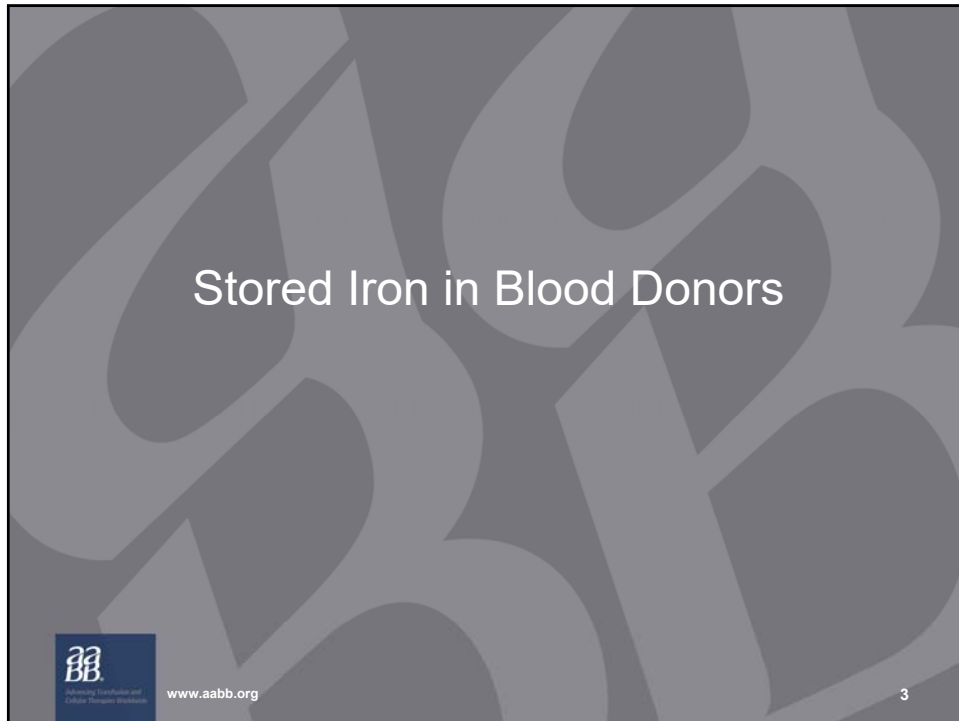
- Paraphrase the challenges of protecting the iron stores of blood donors.
- Explain the challenges of managing blood inventory at the community level.
- Summarize the challenges of developing and supporting new blood products, such as whole blood and cold-stored platelets.



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Donation Frequency & Iron

Women

Donation 1 Donation 2


Men

Donation 1 Donation 2 Donation 3

 Cable et al. Transfusion 2012

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Iron-Rich Diet?



 Rigas et al. Transfusion. 2014.

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Health Consequences

“Potential”

- Fatigue
- Decreased exercise tolerance
- Cognitive dysfunction
- Pregnancy-related complications
- Hearing loss
- Restless leg syndrome

“Well Established”

- Pica



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Options?

Iron
Supplement

Longer inter-
donation

Ferritin testing

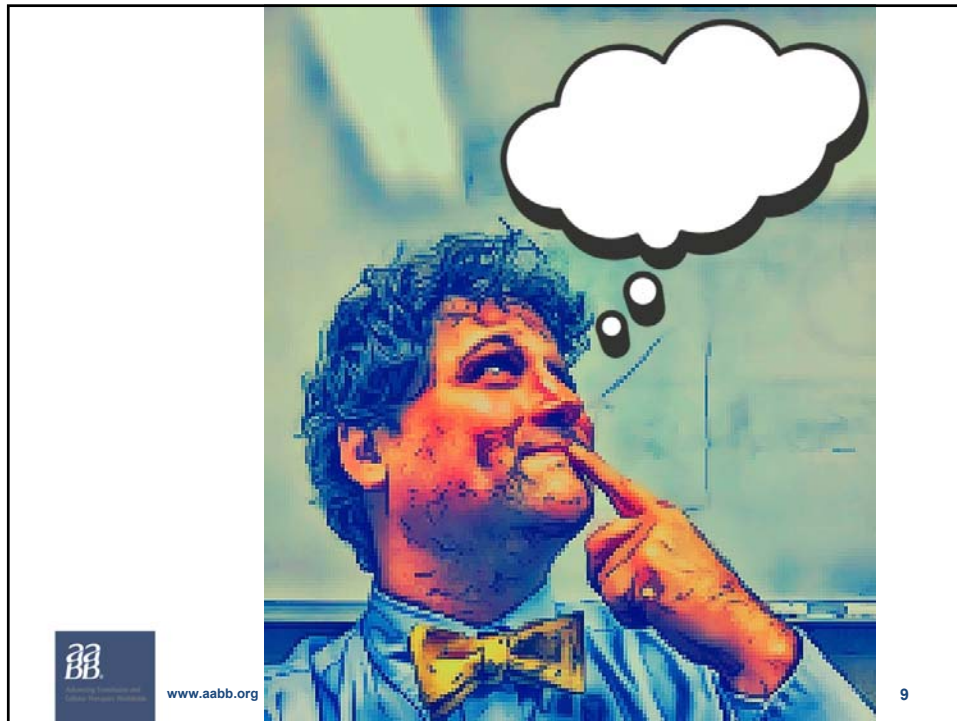
Limit
donations
from at-risk



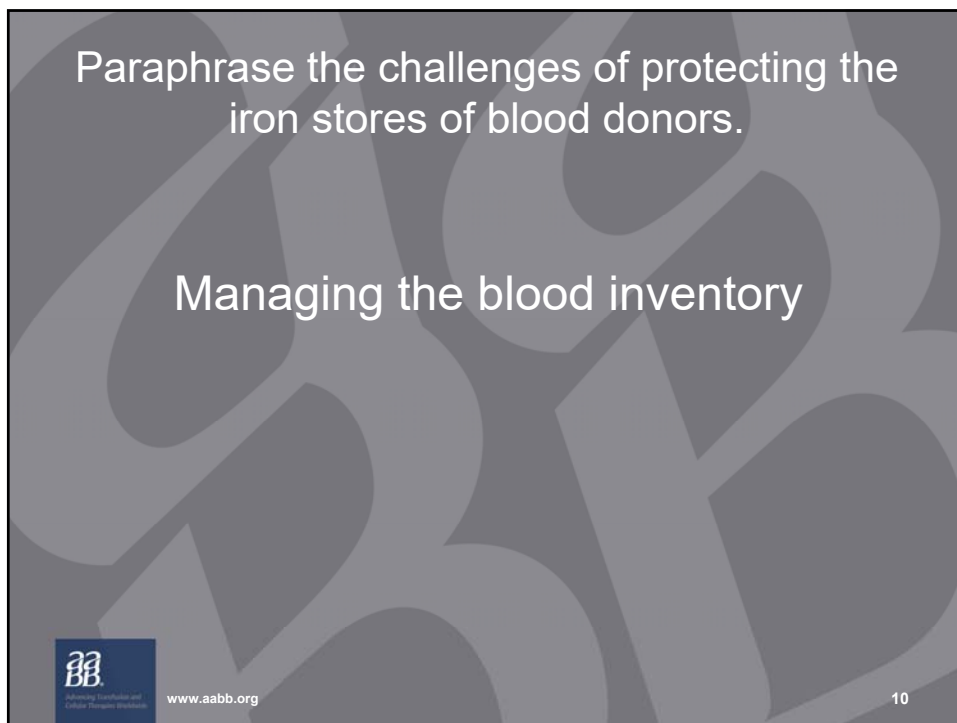
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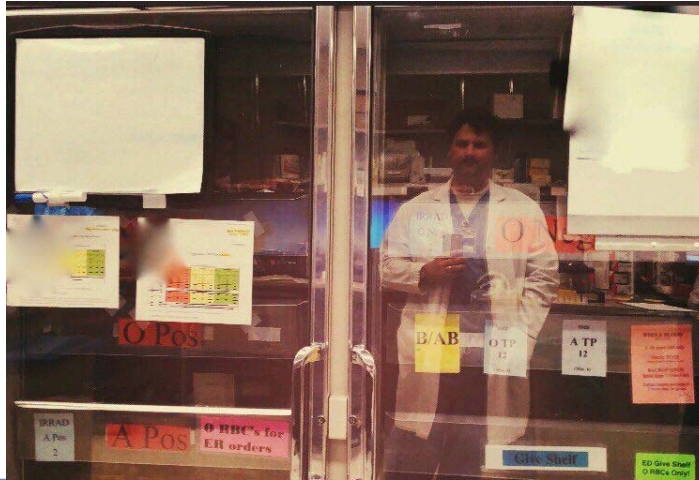


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Managing the blood inventory

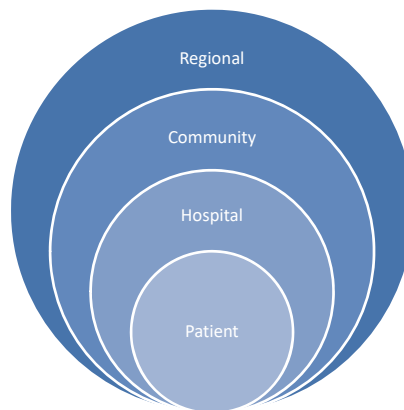


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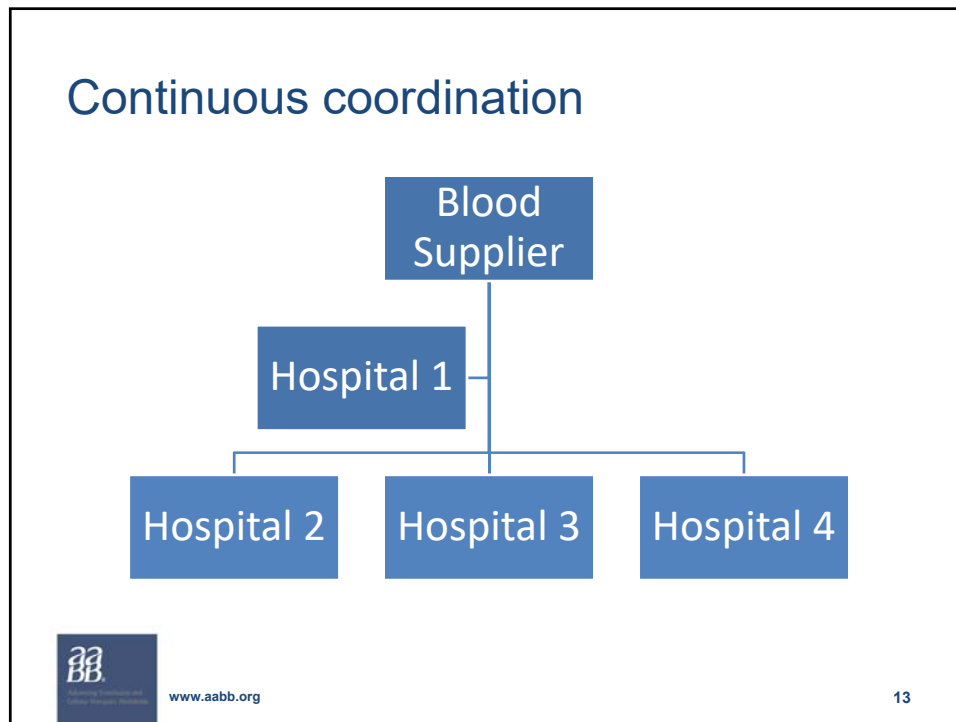
Multiple levels of responsibility



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Explain the challenges of managing blood inventory at the community level.

Developing and supporting new blood products



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Still have unmet needs



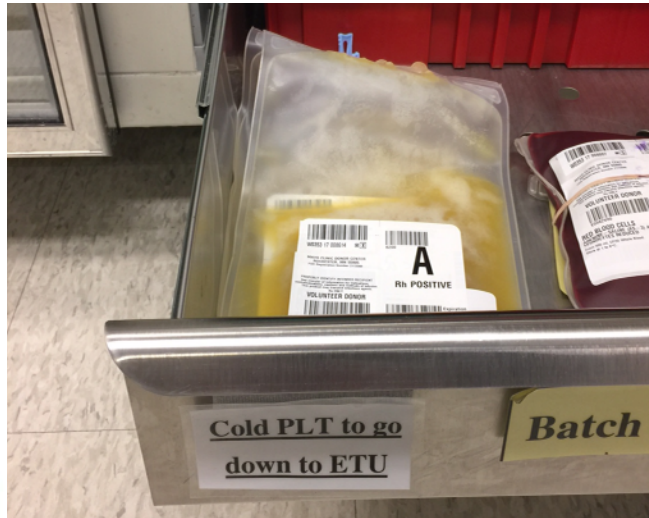
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Cold-Stored Platelets



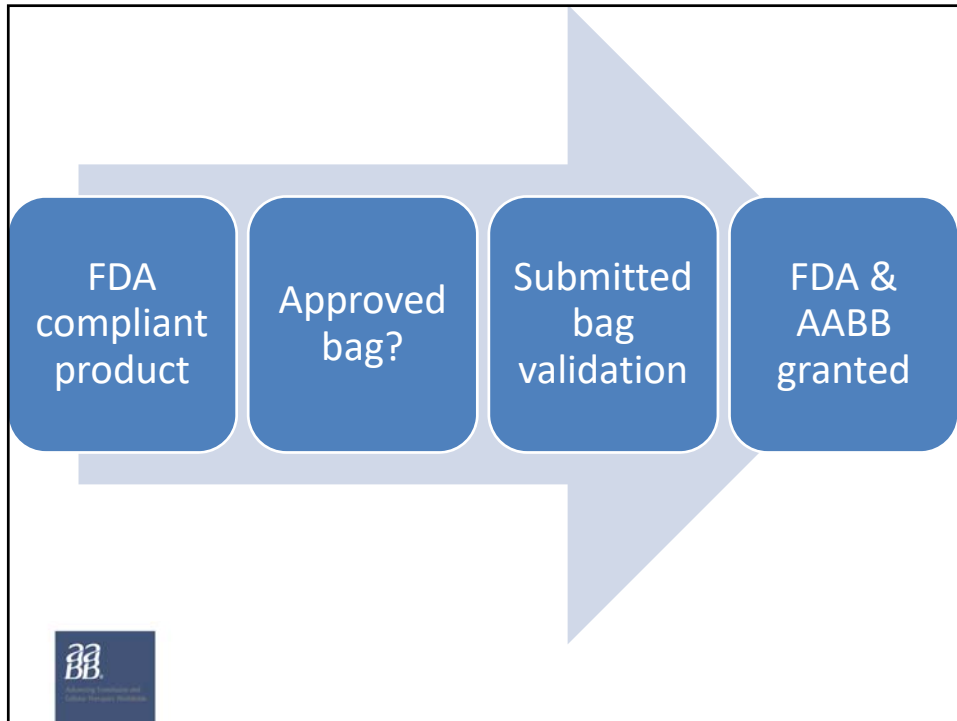
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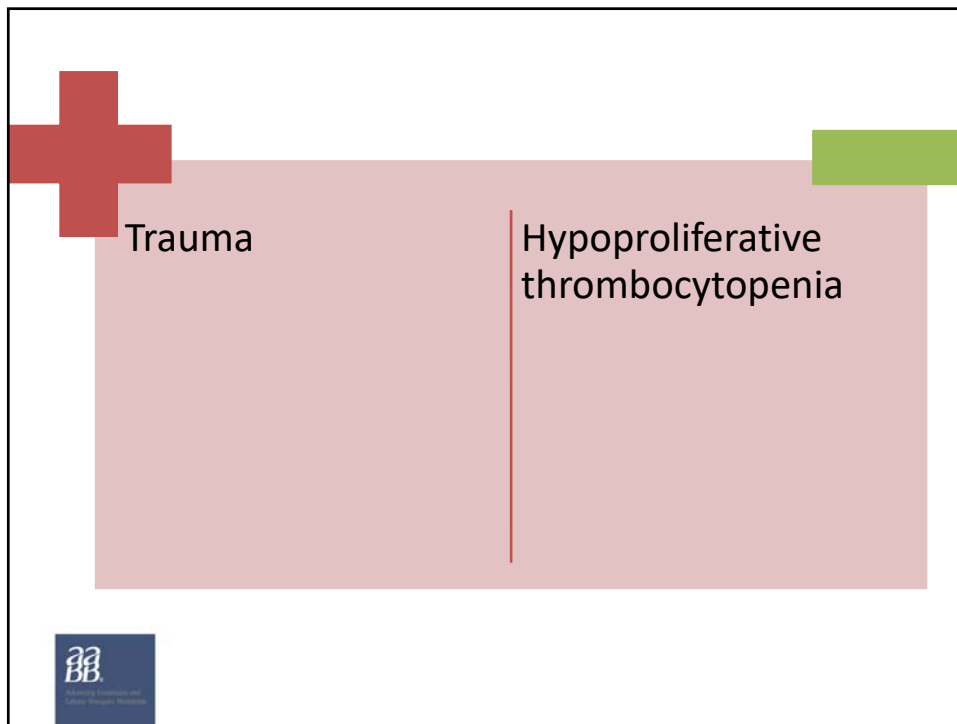
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Platelet function	Platelet recovery
Reddoch et al. <i>SHOCK</i> . 41 (suppl 1): 54-61. 2014.	Murphy & Gardner. <i>N Engl J Med</i> 1969; 280:1094-1098
Nair et al. <i>J Trauma Acute Care Surg</i> . 77:S88-93. 2014.	
Getz et al. <i>Transfusion</i> . 56: 1320-8. 2016	

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Questions?

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