

Calling All Super Heroes

Preparing For and Ensuring Day of Collection Product Quality and Donor Safety

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Learning Objectives

At the conclusion of this session, attendees will be able to:

- ✓ Recognize appropriate interventions to ensure optimal donor experience.
- ✓ State how to effectively estimate and communicate realistic expectations for a quality product collection.
- ✓ Identify processes and available resources to develop a plan for day of collection situations.



Grab your cape.



Disclosures

The following faculty and planning committee staff have no financial disclosures:

Name	Institution
John Miller	Be The Match/National Marrow Donor Program
Ruth Bakken	Be The Match/National Marrow Donor Program
Christian Snyder	Bonfils Blood Center
Lisa Still	Cook Children's Medical Center
Anna Ullrich	Hackensack University Medical Center
Jacklyn Barten	Be The Match/National Marrow Donor Program
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Monique Hussey	Be The Match/National Marrow Donor Program
Amy McGarrity	Be The Match/National Marrow Donor Program
Jennifer Hintze-Olson	Be The Match/National Marrow Donor Program



Grab your cape.



Issue #1

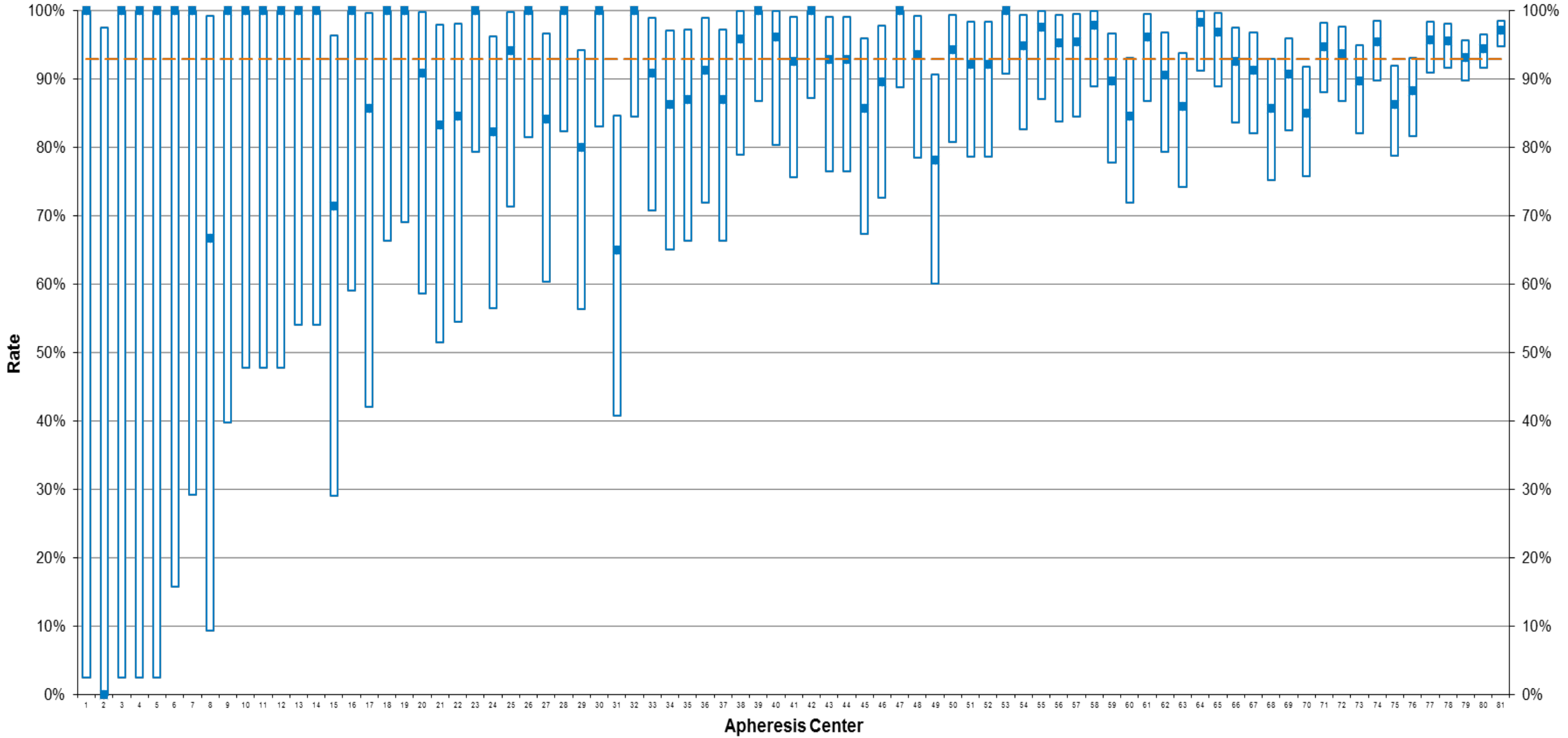
- Donor = 27 year old female, 65kg
- HPC, Apheresis requested
- PE done by third party
 - Venous assessment showed no issues
 - Donor self reported a history of difficult lab draws
- What steps do you take to prepare the donor for a successful collection?



Issue #2

- Donor = 23 year old male; 79kg
- Recipient = 53 year old male; 86kg
- HPC, Apheresis requested
 - 860×10^6 CD34+; dose of 10×10^6 CD34+/kg
 - Concentration of nucleated cells be reduced by the addition of autologous plasma and ACD-A to no greater than 250×10^9 /L
- How do you manage the high cell count request?
- Day one obtained 5×10^6 CD34+/kg in 15L.
 - Do you continue to process the donor/move to a second day?
- How do you handle the cell concentration requested?

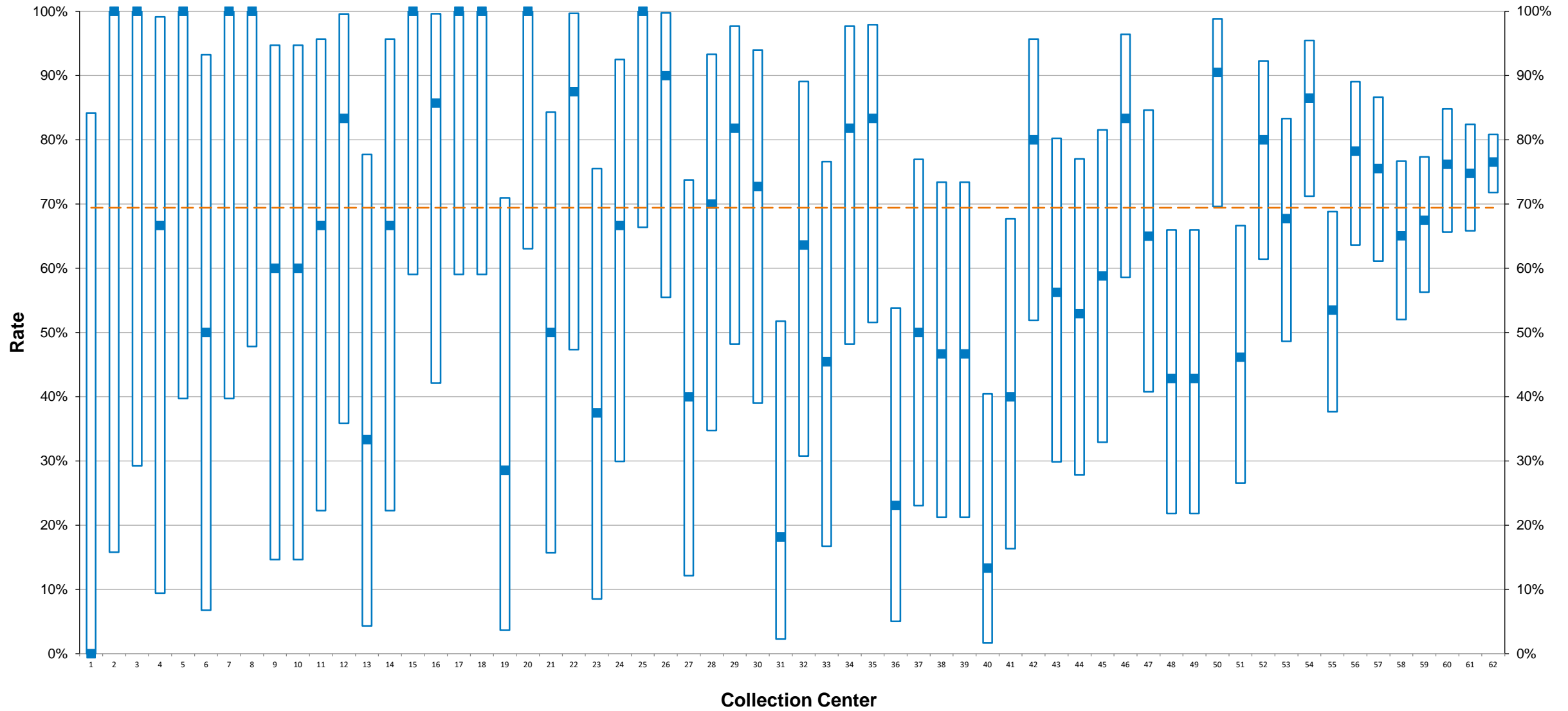
**Rate of Meeting or Exceeding a CD34+ dose $\geq 4 \times 10^6/\text{kg}$
with 95% confidence interval, ordered by number of collections (ascending)**



Issue #3

- Donor = 23 year old male; 79kg
- Recipient = 53 year old male; 86kg
- HPC, Marrow requested
 - 430×10^8 TNC; dose of 5×10^8 TNC/kg
- How do you manage this high cell count request?
- Should autologous units be collected?

**Rate of Meeting or Exceeding $3.5 \times 10^8/\text{kg}$
with 95% confidence interval, ordered by number of collections (ascending)**



Issue #4

- Donor = 32 year old female; 61kg
 - Pre-apheresis absolute CD34+ was 20 cell/uL
 - Platelets were $196 \times 10^9/L$
- Patient = 24 year old female; 73.2kg
- HPC, Apheresis requested
 - 366×10^6 ; dose of 5×10^6
- What steps do you take when you note the donor did not mobilize optimally?
- How do you calculate the anticipated CD34+ to be collected?
- What planning do you do for a 2nd day collection and 6th dose of Filgrastim?

Coming Soon...

NMDP Notification of Poor Donor Mobilizer

In an effort to efficiently manage cases where the donor did not mobilize optimally to meet the TC's requested cell count, Quality Medical Services (QMS) requests the following information to understand the current collection status and expedite NMDP provider guidance for consideration.

Please provide the information below as it is currently known. NMDP notification should not be delayed if pieces of information are still forthcoming.

DID: _____ AC: _____ DC: _____ RID: _____ TC: _____
ACC: _____ DCC: _____ CM: _____

Pt weight in kg: _____ Requested Total CD34+: _____ ($\times 10^6$) CD34+/kg: _____ ($\times 10^6$ /kg)

Donor's Pre-Apheresis Labs

Platelet Count: _____ ($\times 10^9$ /L)

Absolute CD34+ (cells/uL): _____ OR WBC: _____ ($\times 10^9$ /L) AND Peripheral CD34%: _____ %

Collection Progress

Central line placed: Yes No

Current donor status/tolerance:

Total number of liters processed at time of notification: _____

Planned number of liters to be processed: _____

Estimated CD34+ to be collected with planned liters processed (if known): _____ ($\times 10^6$ CD34+)

Collection efficiency % (if known): _____

Anticipated time the post collection product CD34+ will be available: _____

AC Physician rationale for current collection plan:

Other Collection Considerations

Donor and AC ability to perform day two collection: Yes No

*AC access to a 6th dose of Neupogen filgrastim: Yes No

*Donor and AC ability to exceed 24L processed in one or two days: Yes No

*Please note that NMDP provider approval is required prior to proceeding with either option.

Who to contact with questions/updates (Name, email and phone number):

Name of person completing the form (if different from above):

Thank you!



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