

AABB Monthly Platelet & Group O Survey

Welcome to the report of the AABB Monthly Platelet and Group O survey. If you wish to explore the survey further, please [see instructions](#) for the interactive tool.

Thank you to all those who responded to this survey. We hope that, over time, this survey will be an important source of data for AABB members and the larger transfusion medicine community. We are now moving forward with quarterly survey invitations asking participants to provide monthly data. AABB encourages all members to regularly fill out the survey, which should take no more than 15 minutes to complete. The more data we collect, the more accurate the results will be.

Major conclusions (Data presented: June 2021 – September 2023):

Collections (page 3 & 4)

- Blood collection data (page 3) represent approximately 70% of the platelet and Group O RBCs collected in the US.
- The fluctuations seen in the overall collection data (page 3) may be partly due to inconsistent responses to the survey by blood centers.
- Platelet and Group O+ve collections that showed an upward trend in August 2023 were followed by a decline in September 2023 (page 3 & 4). A similar trend was observed in Q3 2022.
- Group O-ve RBC collections showed a downward trend in Q3 2023, similar to Q3 2022 (page 3 & 4).
- The overall platelet wastage rate showed a downward trend in Q3 2023 (page 3).

Transfusions (page 5)

- Our data showed the average platelet, Group O+ve RBC and Group O-ve RBC transfusion volumes had an upward trend in August 2023, followed by a decline in September 2023.
- Hospital platelet wastage rate showed a declining trend in the months of Q3 2023. Wastage rates also differ based on expiration date of platelets (e.g., short dated when received), hospital characteristics, ability to return units, canceled procedures and inventory management systems.

Shortage indicators (page 6)

- The proportion of hospitals using a secondary supplier for their blood in Q3 (average = 21%) was comparable with Q2 2023.
- Only a small fraction of hospitals split platelet units to extend their inventory during this time.
- The proportion of hospitals that reported splitting platelet units was comparable in Q3 and Q2 2023.
- The average proportion of hospitals in which an incomplete RBC that led to either a delay in patient care or a need to split units to fill transfusion orders was comparable in Q3 and Q2 2023.
- The average proportion of hospitals in which an incomplete platelet that led to either a delay in patient care or a need to split units to fill transfusion orders was higher in Q3 compared with Q2 2023. Approximately 20 – 38% of respondents do not track this information.

Hospitals Receiving Low Yield Platelets (page 7)

- The proportion of hospitals receiving low-yield platelets was stable and within the range of 9.6%-18.9%. On average, 18% of participating hospitals received low-yield platelets in Q3 months, higher than Q2 2023 .

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Thank you to all those who responded to this survey.

Methods:

- The survey is sent to more than 800 AABB-accredited hospitals and 50 AABB-accredited blood collection facilities (consolidated responses were collected for blood centers operating in more than one region).
- Basic collection and utilization information on platelet and Group O RBC numbers are [collected](#).
- Total platelet collection is aggregate of labeled apheresis platelet units, whole blood-derived (WBD) platelets and acrodose platelets. Units reported as individual WBD or pre-pooled acrodose are converted to equivalent standard pooled dose.
- Platelet wastage rate by blood collection center is the rate of labeled platelet wasted due to outdate per total platelets collected.
- Page 4 shows the collection trends using data from 9 blood centers that have been reporting consistently.
- For hospitals, platelet wastage due to outdate and other reasons is aggregated.
- For hospitals, platelet wastage rate is calculated as $\text{platelet wastage rate} = \frac{\text{total platelets wasted}}{\text{total platelets wasted} + \text{total platelet transfused}}$ [Reference 1].
- High platelet wastage rate considered as outliers (1.5 Inter Quartile Range above Q3) are removed for this survey report.
- Page 7 tracks the proportion of hospitals receiving low-yield platelets.

Limitations:

- The survey report is a visual snapshot of survey respondents and doesn't provide national estimates.
- No data imputation or weighting procedures are applied. However, AABB does accept retrospective data and will update results as new information is received.
- Response rates vary between each monthly survey. However, the response rate from blood collection centers is consistent with an average of 17 centers reporting every month.
- The survey collects wastage data for platelet units. Blood inventory management and shortage mitigation varies based on region and facility capabilities. Variation is also reported between rural and urban regions. Regional and inter-institution variation is not currently captured in this survey.

Current Data:

- Last updated: 11/27/2023. A **new field "Year"** has been added to filter 2021, 2022 and 2023 data. Please use this field to view desired year/month data. Press and hold the Ctrl key for multiple selections. Members interested in providing data for past months can contact AABB via srajbandary@aabb.org.

Reference:

1. Fredrich, N., Gammon, R., Richards, C. A., & Tauer, R. (2019). *PBM Metrics*. Blood Wastage—Metrics Can Precede Intervention. AABB Press.

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Year ▼

2023 ▼

Survey Participation

Institution Type	Count
Blood collection center	
January	17
February	17
March	17
April	17
May	17
June	17
July	16
August	16
September	16
Hospital with collection facility	
January	7
February	7
March	7
April	6
May	6
June	6
July	9
August	9
September	9
Hospital without collection facility	
January	88
February	86
March	87
April	92
May	95
June	94
July	92
August	93
September	93

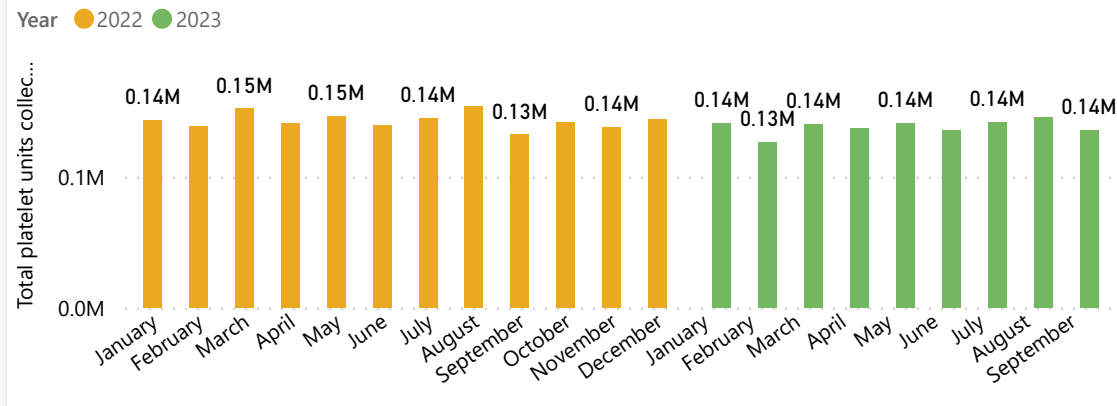
Year Institution Type

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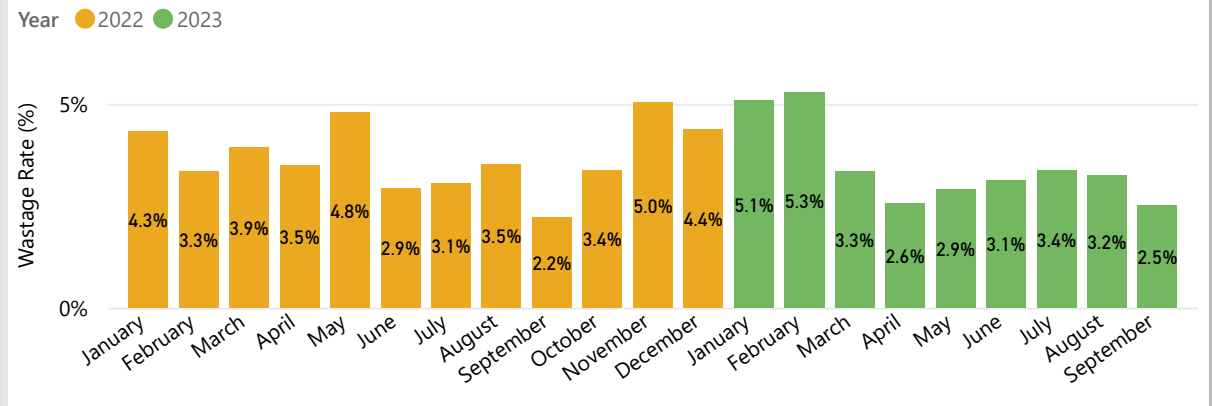
COLLECTION

Platelet units

Total Platelet Collection

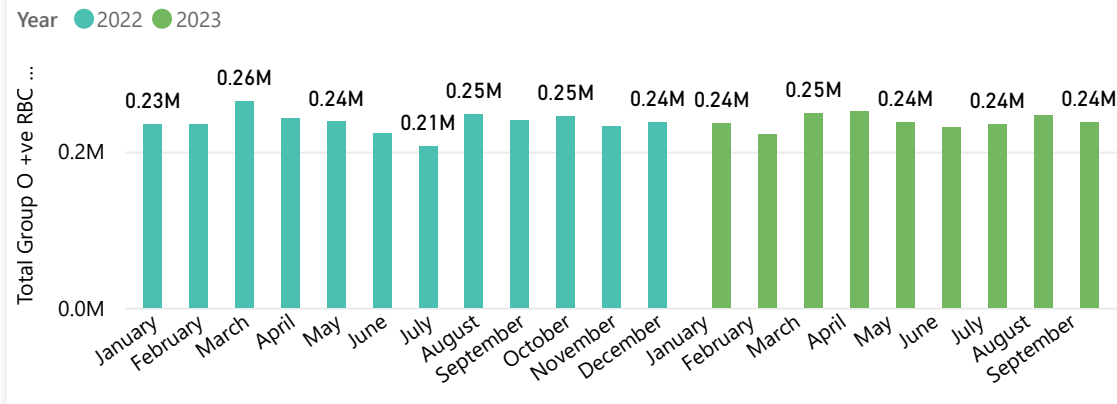


Average Platelet Wastage Rate by Collection Centers

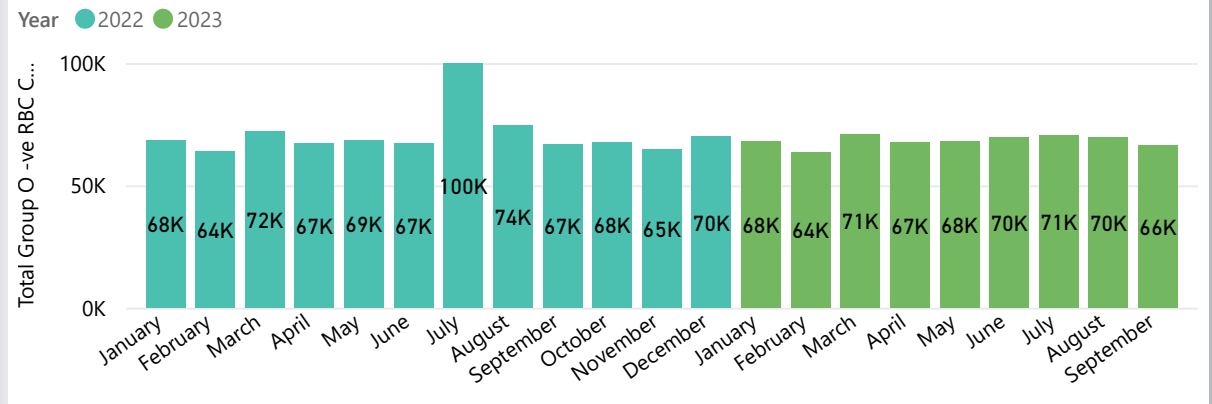


Group O Red Blood Cell (RBC)

Total Group O Positive RBC Collection



Total Group O Negative RBC Collection

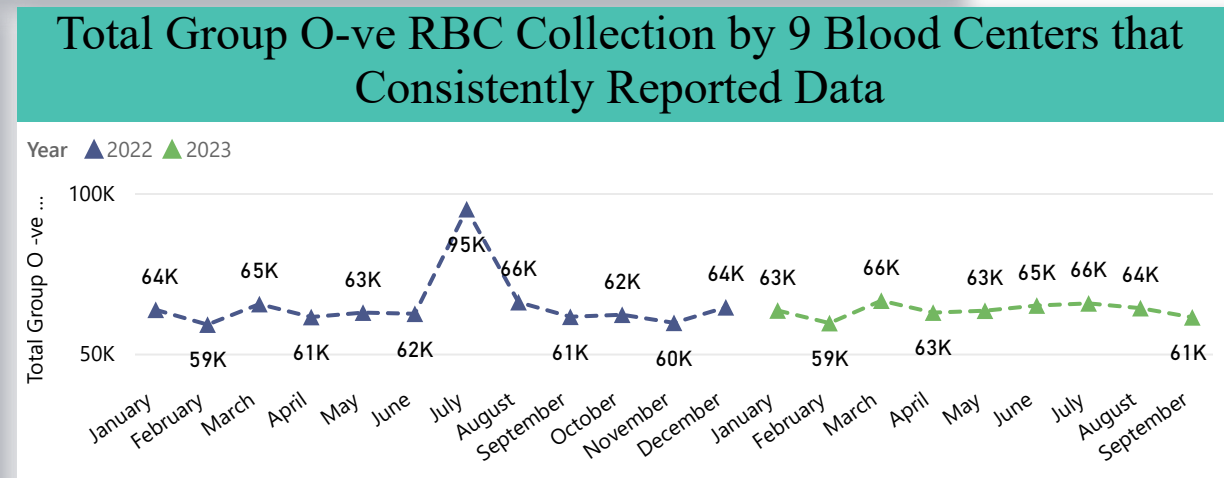
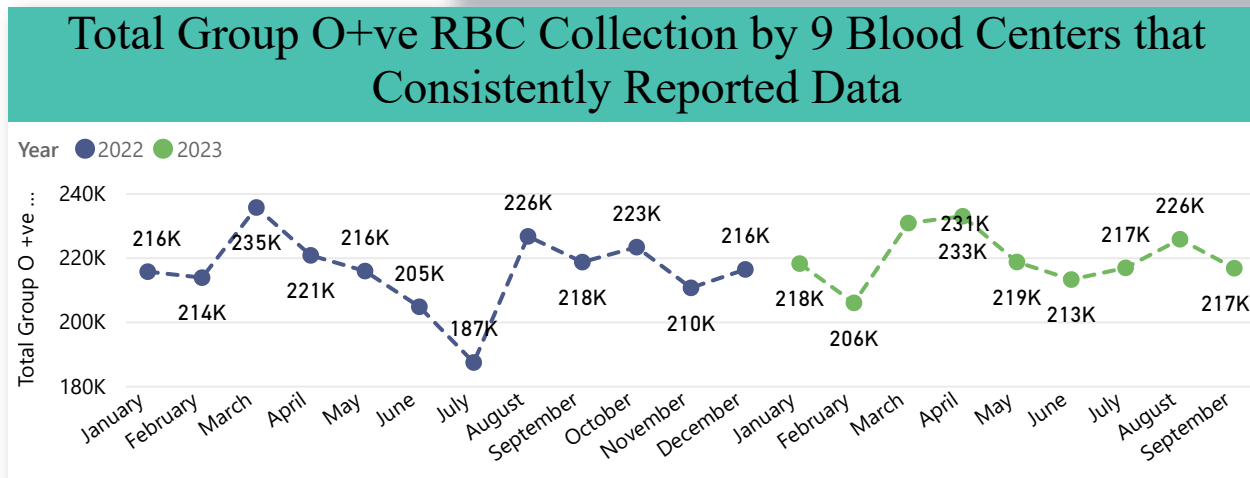
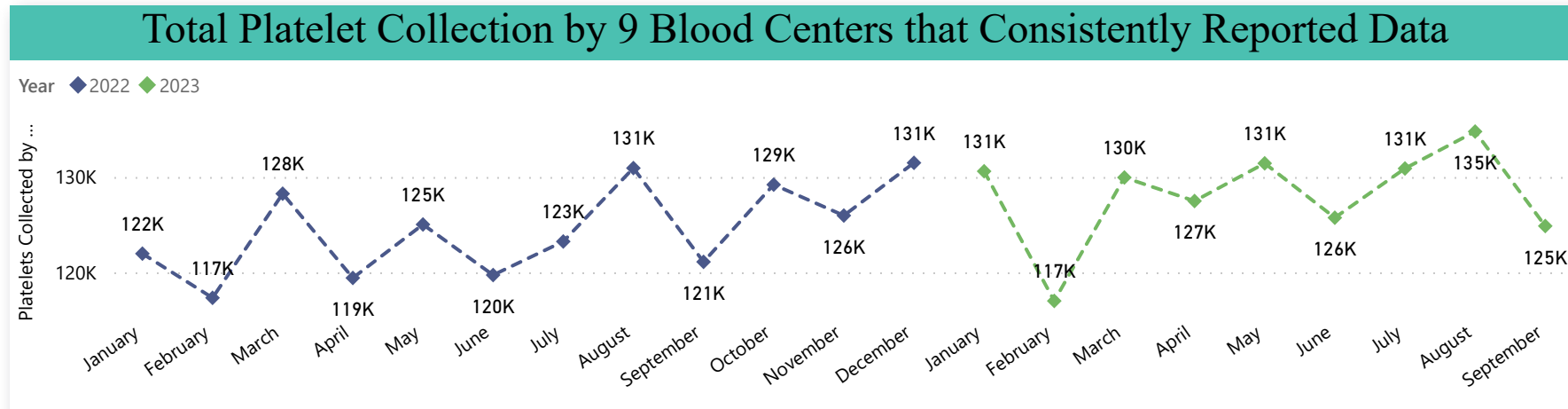


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Collection Data for 9 Blood Centers that Consistently Provided Survey Data

A total of 9 blood centers (representing approximately 50% of the blood supply) have consistently supplied survey data. The amalgamated blood collection data from these centers is shown below.



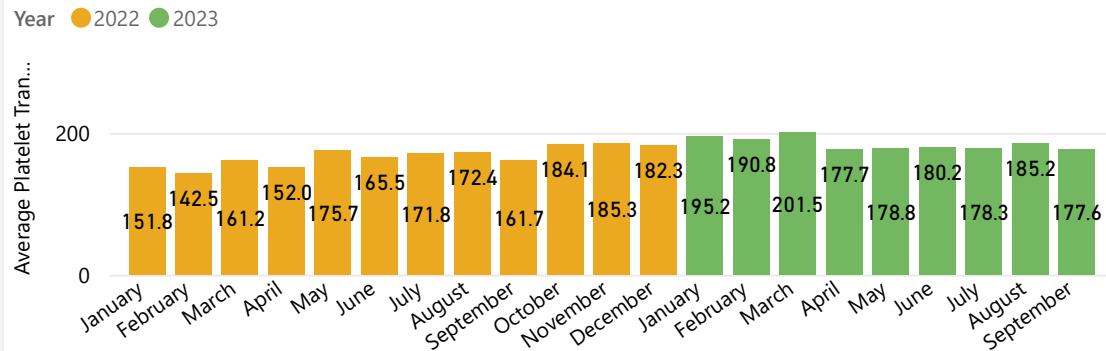
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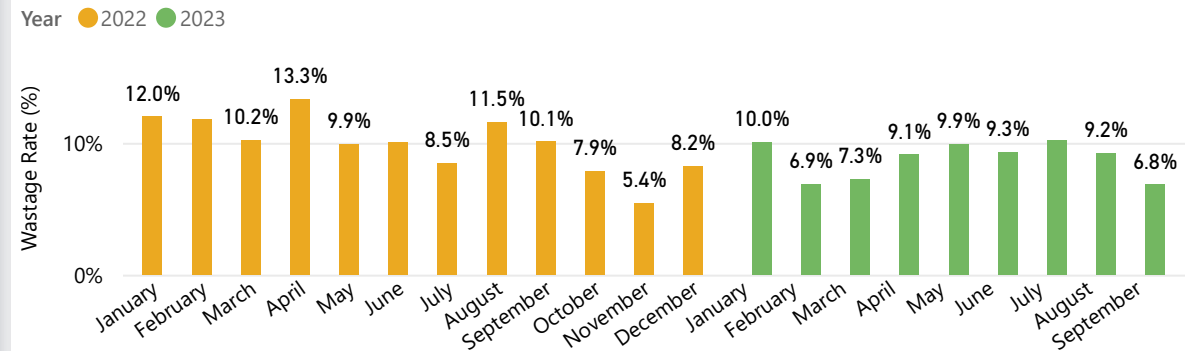
TRANSFUSION

Platelet units

Average Platelet Transfusion

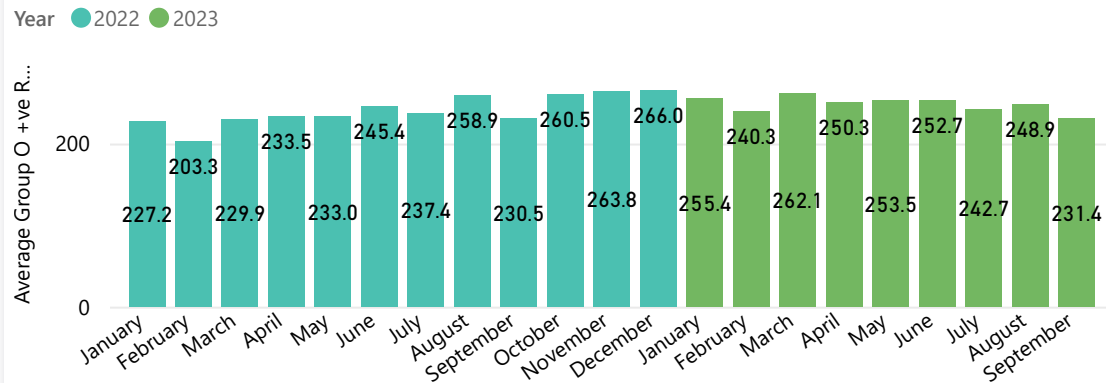


Average Platelet Wastage Rate by Hospitals

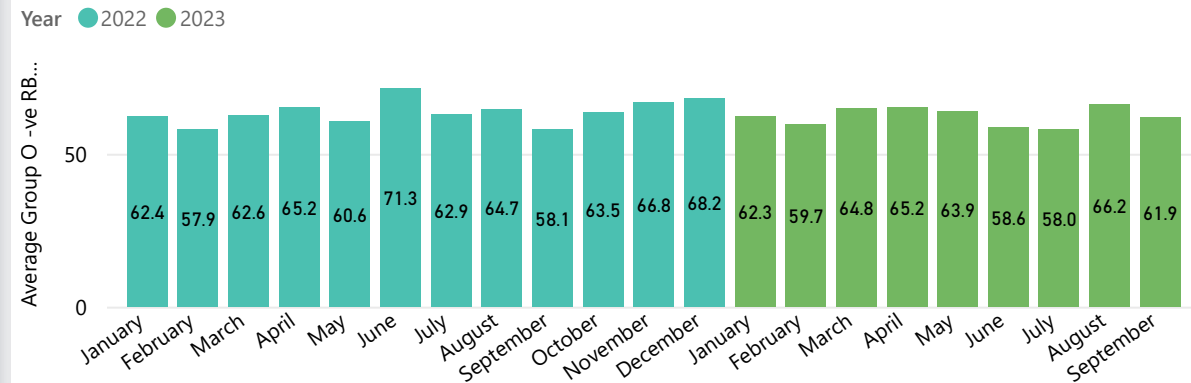


Group O Red Blood Cell (RBC)

Average Group O Positive RBC Transfusion



Average Group O Negative RBC Transfusion

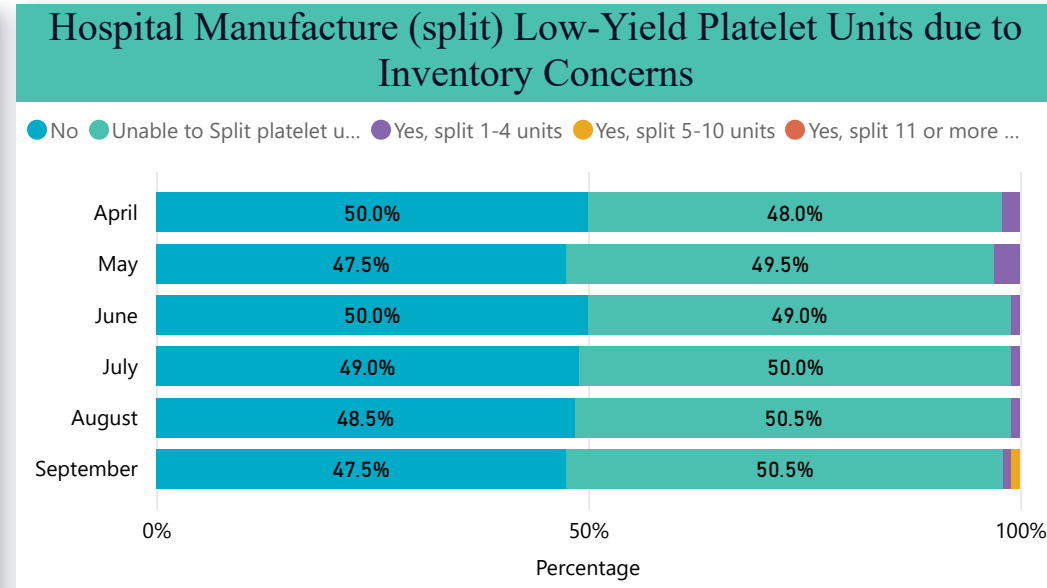
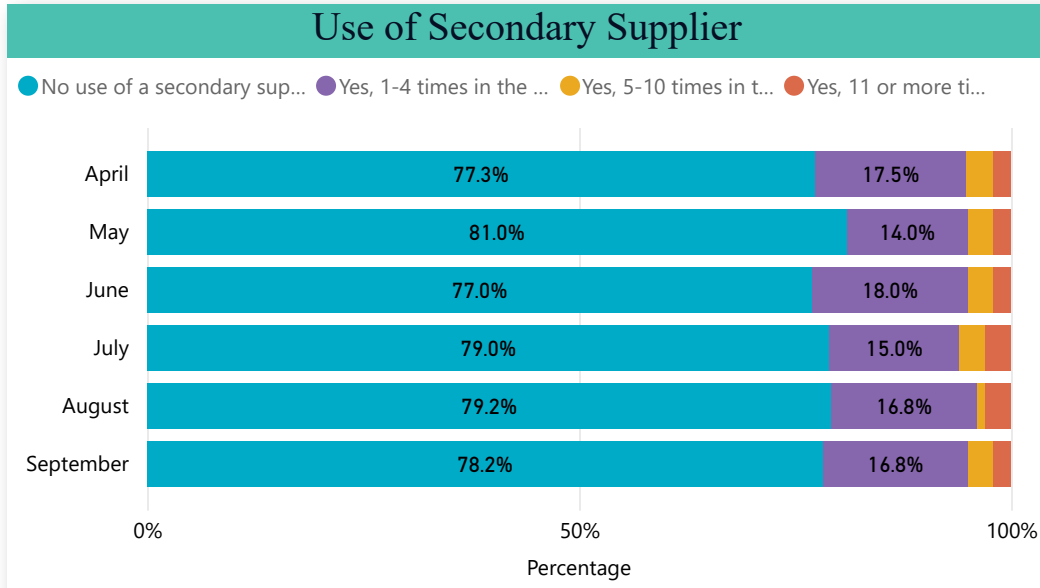


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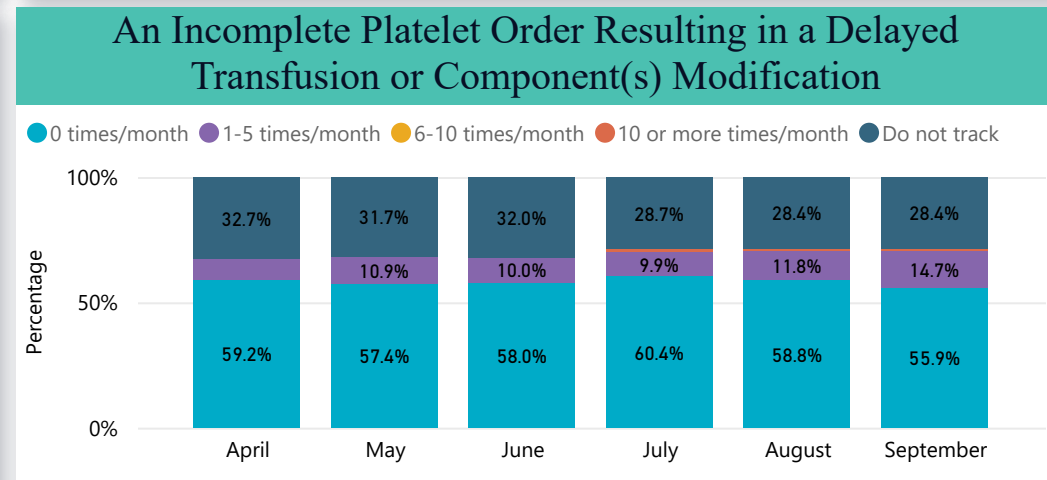
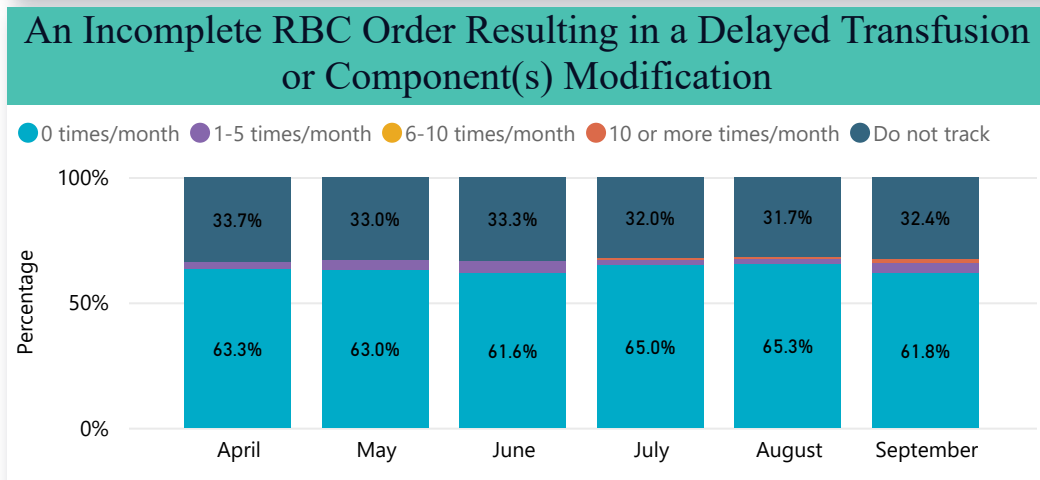
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INVENTORY ISSUES

- 2021
 - June
 - July
 - August
 - September
 - October
 - November
 - December



- 2022
 - January
 - February
 - March
 - April
 - May
 - June
 - July
 - August
 - September
 - October
 - November
 - December

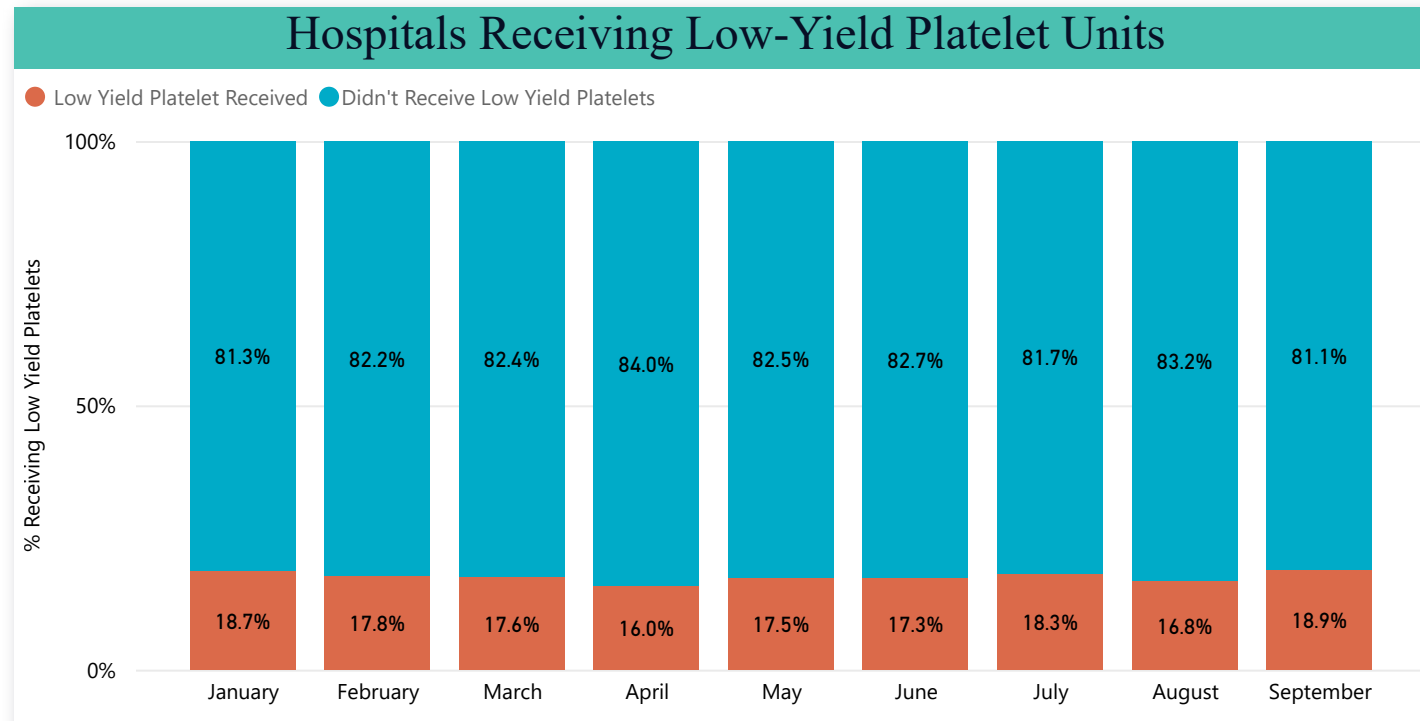


- 2023
 - January
 - February
 - March
 - April
 - May
 - June
 - July
 - August
 - September



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Low-Yield Platelets



- Year, Month ∨
- ∧ 2021
 - June
 - July
 - August
 - September
 - October
 - November
 - December
 - ∧ 2022
 - January
 - February
 - March
 - April
 - May
 - June
 - July
 - August
 - September
 - October
 - November
 - December
 - ∧ 2023
 - January
 - February
 - March
 - April
 - May
 - June
 - July
 - August
 - September