

# 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 – December 2022):

### Collections (page 3 & 4)

- Blood collection data (page 3) represent approximately 70% of the platelet and Group O RBC 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.
  - The collections of platelets, Group O+ve and Group O-ve RBC that dipped in November 2022 showed an uptick in December 2022 (page 3 & 4).
  - The overall platelet wastage rate at blood centers was slightly higher in November and December 2022 compared with October 2022 (page 3).

### Transfusions (page 5)

- Our data showed comparable average platelet, Group O+ve RBC and Group O-ve RBC transfusion volumes for the participating hospitals in October, November, and December 2022.
- Hospital platelet wastage rate was higher in October and December 2022 compared with November 2022. 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 October and November 2022 were lower compared with December 2022.
- 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 in November 2022 was higher compared with October and December 2022.
- The proportion of hospitals in which an incomplete RBC order that led to either a delay in patient care or a need to split units to fill transfusion orders was lower in November 2022 compared with October and December 2022.
- The proportion of hospitals in which an incomplete platelet order that led to either a delay in patient care or a need to split units to fill transfusion orders was higher in December 2022 compared with October and November 2022.
  - 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 within the range of 9.6%-17.6%. The results also showed that 17.2% of participating hospitals received low yield platelets in December 2022.

Year

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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 11 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 (IQR) 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 approximately 19 centers reporting on average 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: 3/28/2023. A new field "Year" has been added to filter 2021 and 2022 data. Members interested in providing data for past months can contact AABB via [srajbhandary@aabb.org](mailto:srajbhandary@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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## Survey Participation

Institution Type	Count
<b>Blood collection center</b>	
January	20
February	21
March	21
April	21
May	21
June	19
July	20
August	21
September	19
October	19
November	19
December	19
<b>Hospital with collection facility</b>	
January	11
February	12
March	12
April	9
May	9
June	9
July	8
August	9
September	8
October	9
November	9
December	9
<b>Hospital without collection facility</b>	
January	100
February	107
March	105
April	112
May	93
June	94
July	85
.	..



Year

Institution Type

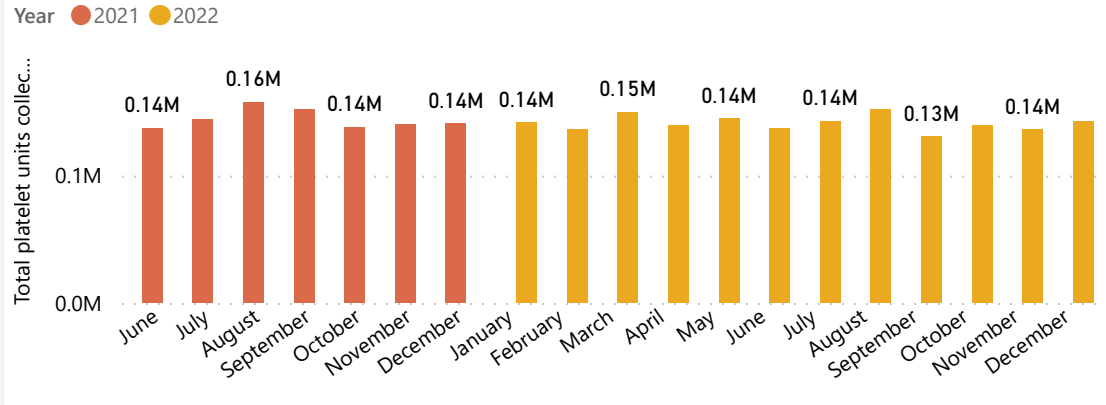
Blood collection center

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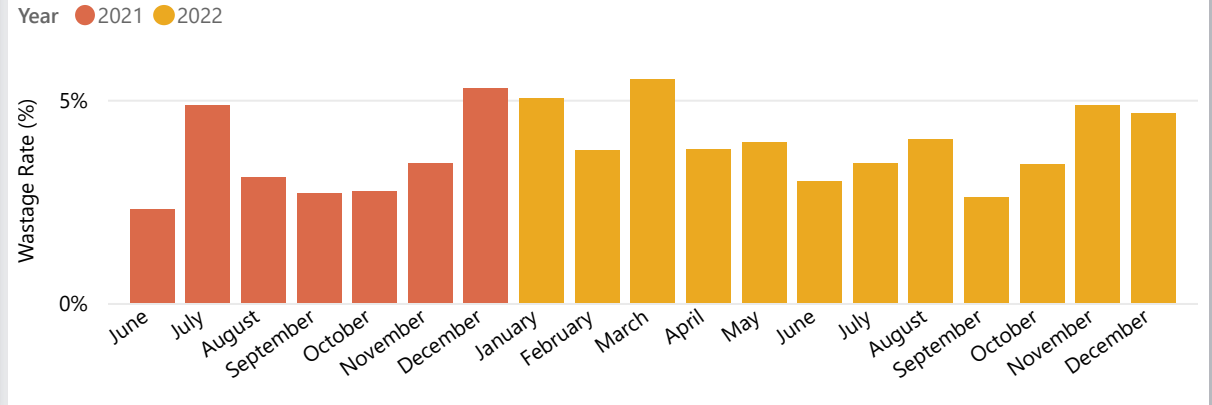
## COLLECTION

### Platelet units

#### Total Platelet Collection

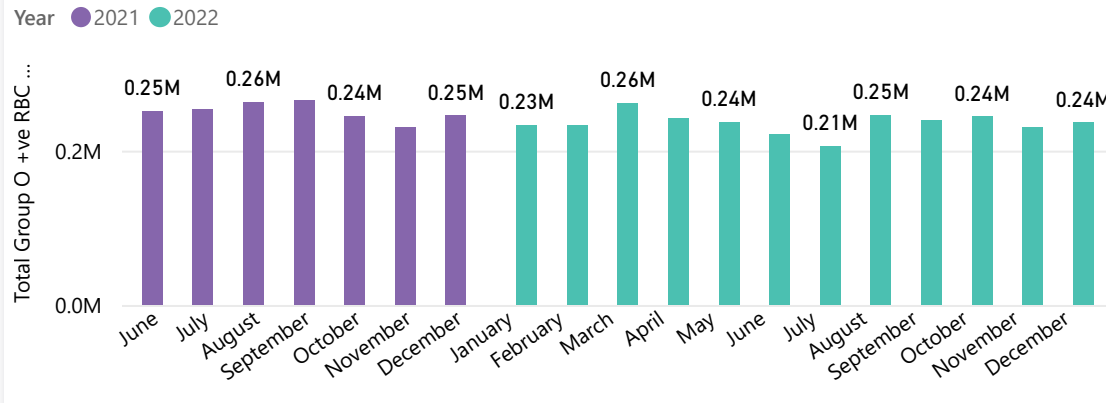


#### Average Platelet Wastage Rate by Collection Centers

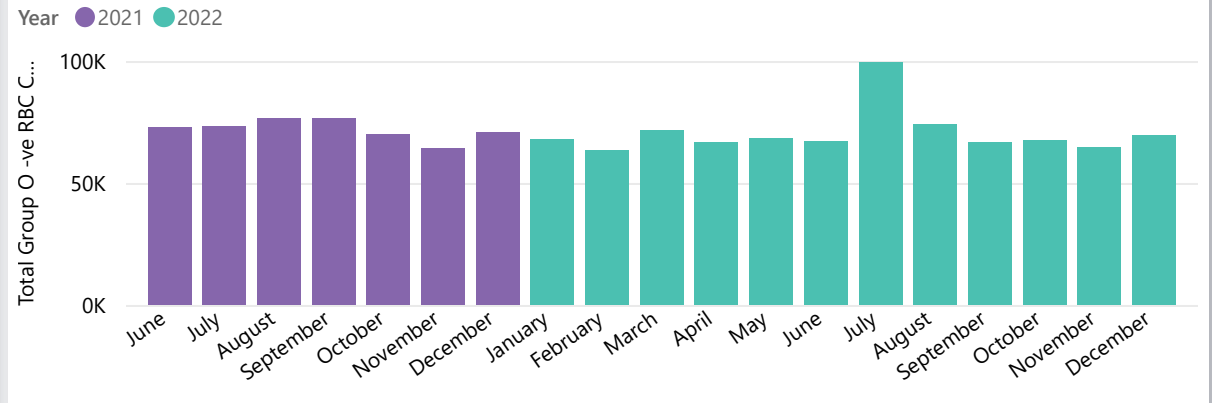


### Group O Red Blood Cell (RBC)

#### Total Group O Positive RBC Collection



#### Total Group O Negative RBC Collection

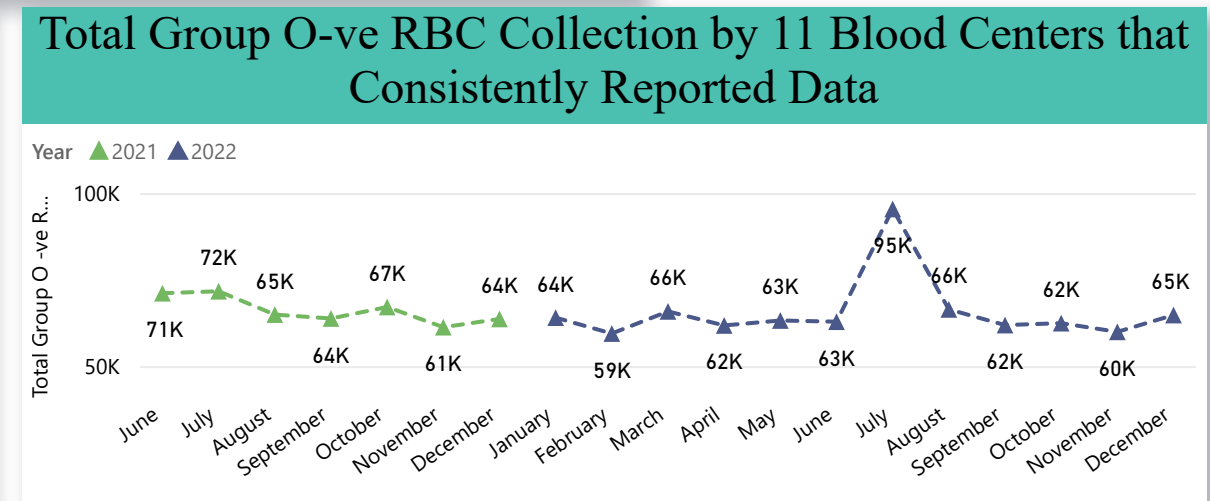
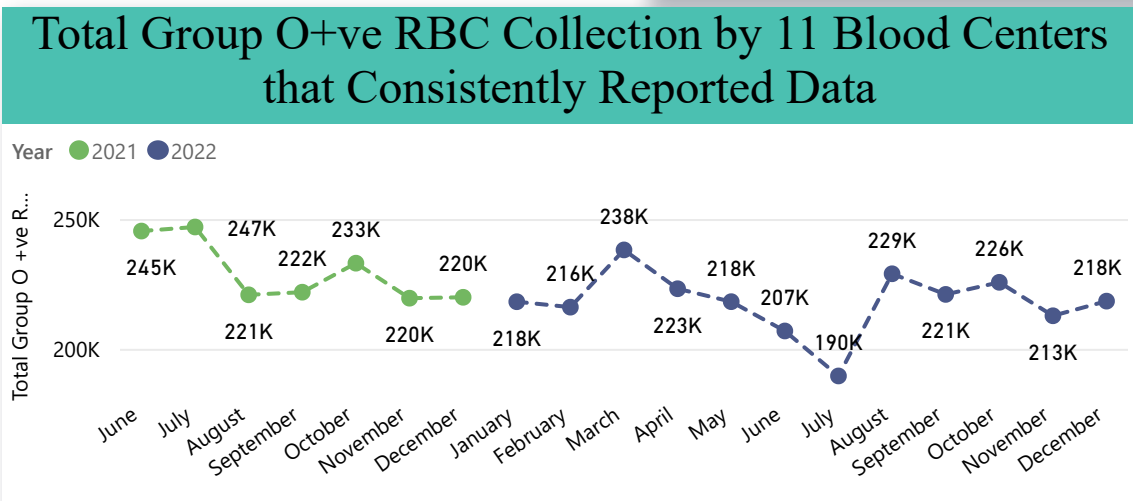
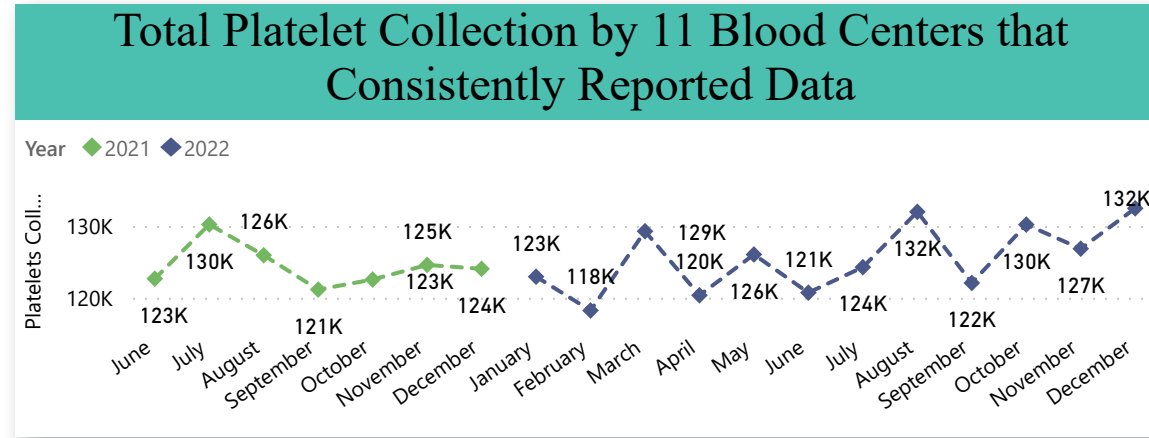


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## Collection Data for 11 Blood Centers that Consistently Provided Survey Data

A total of 11 blood centers (representing approximately 53% of the blood supply) have consistently supplied survey data. The amalgamated blood collection data from these centers is shown below.

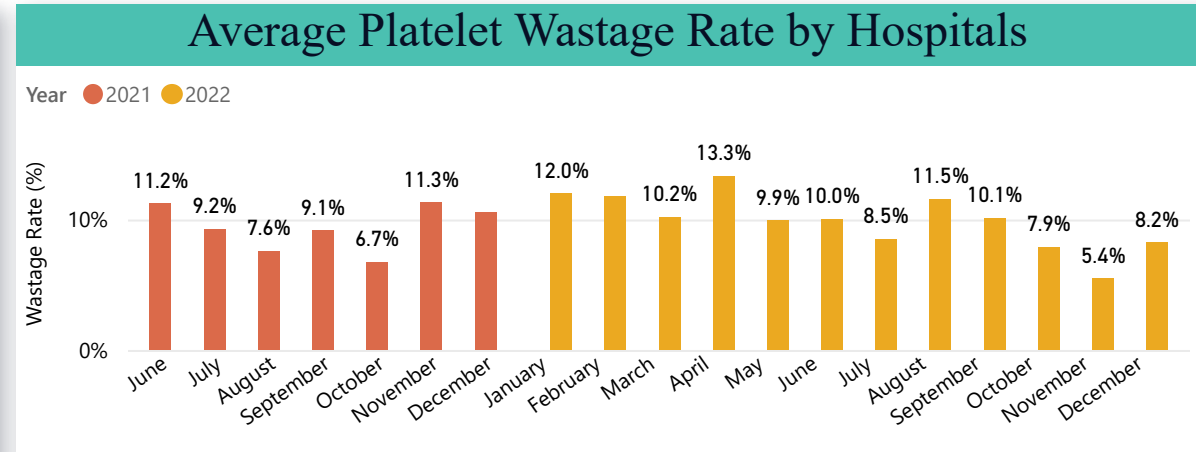
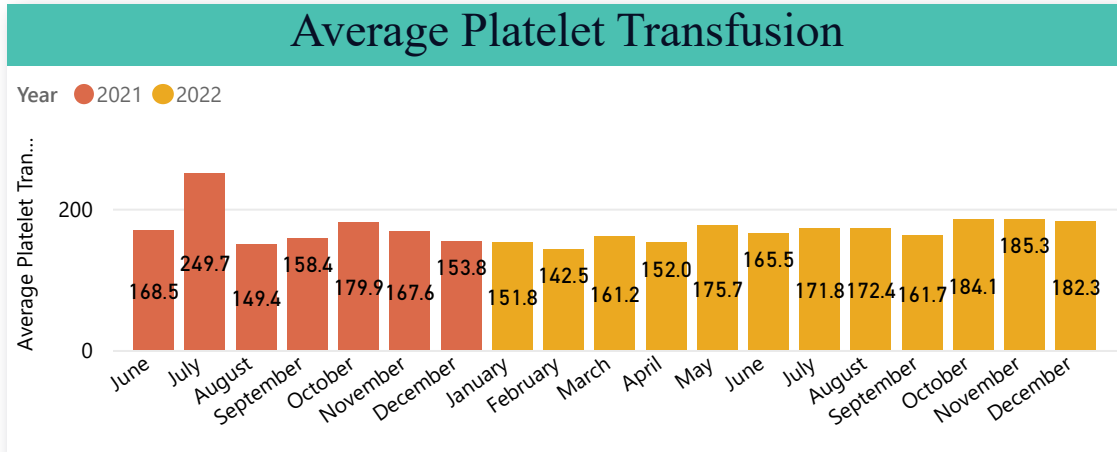


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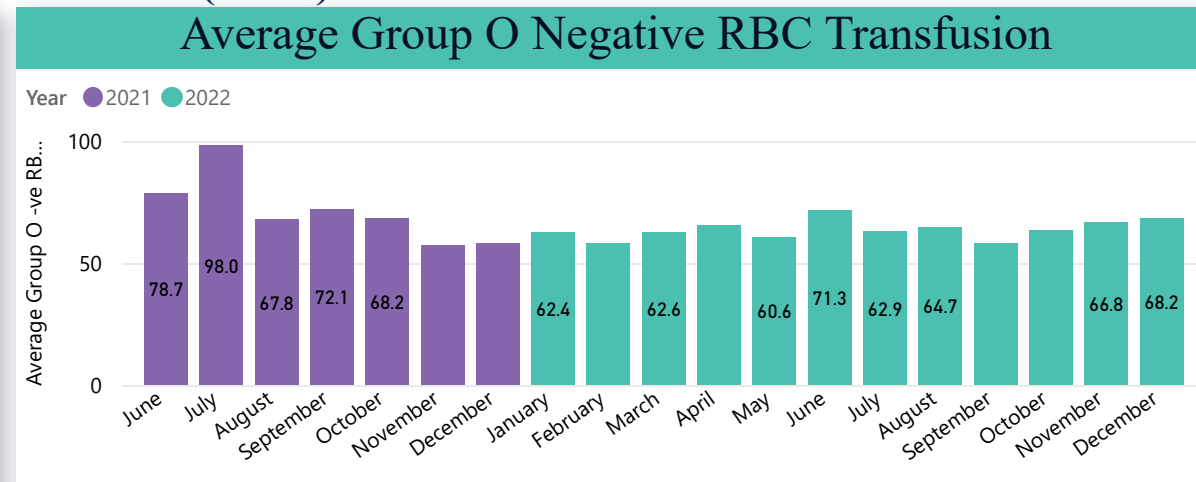
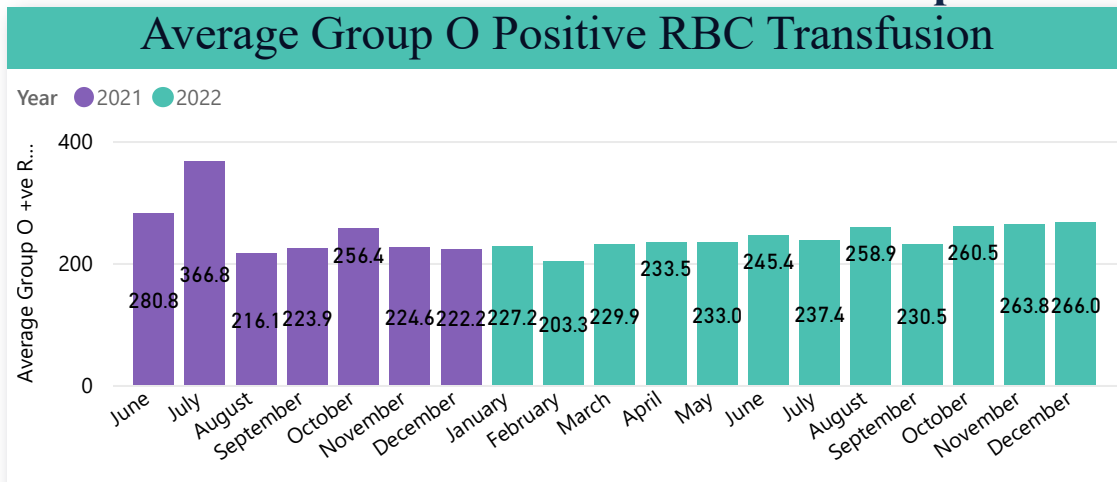
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## TRANSFUSION

### Platelet units



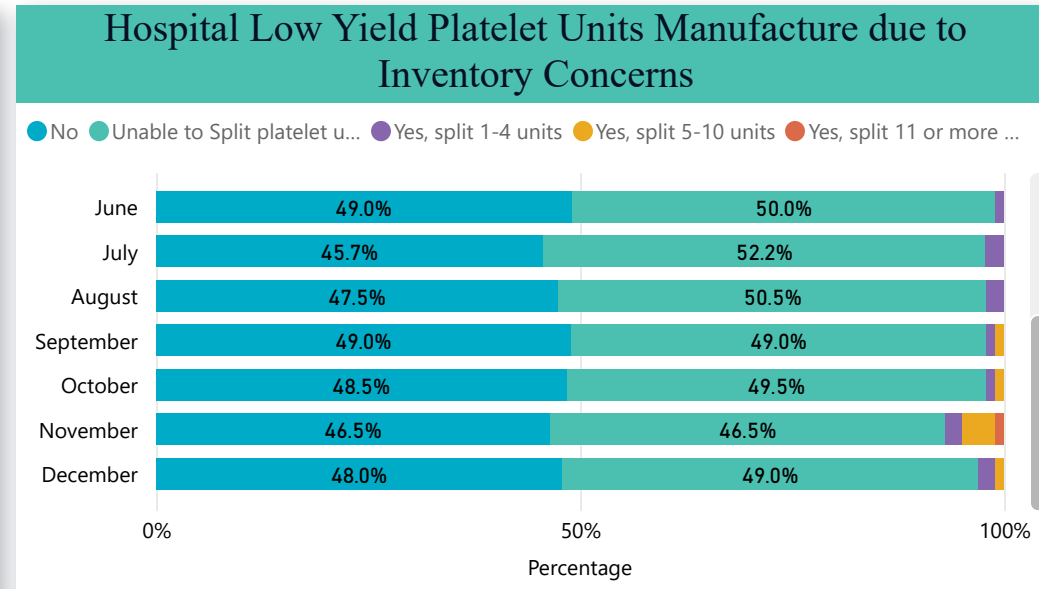
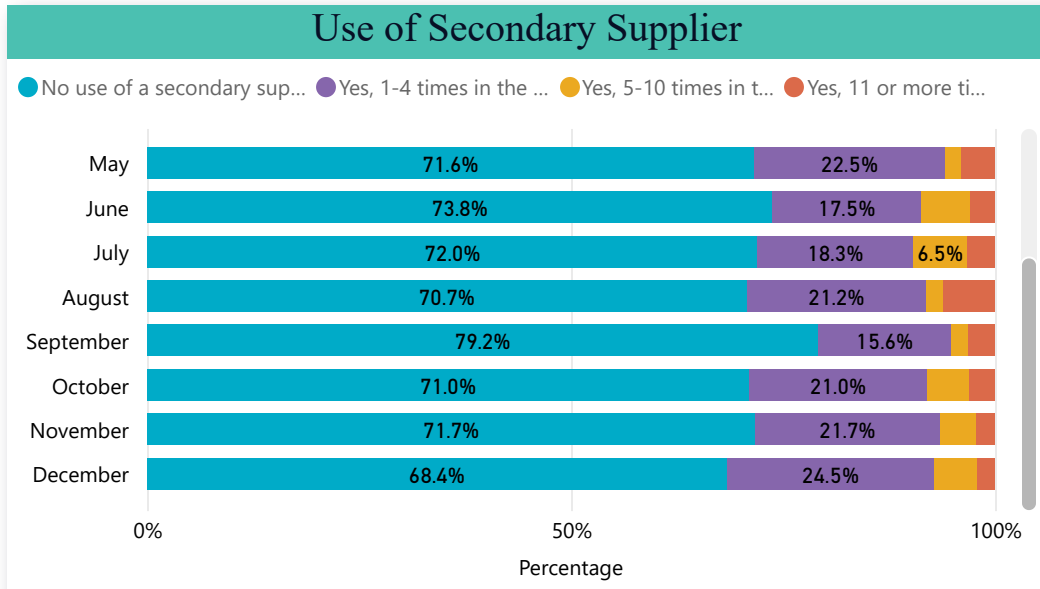
### Group O Red Blood Cell (RBC)



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## INVENTORY ISSUES



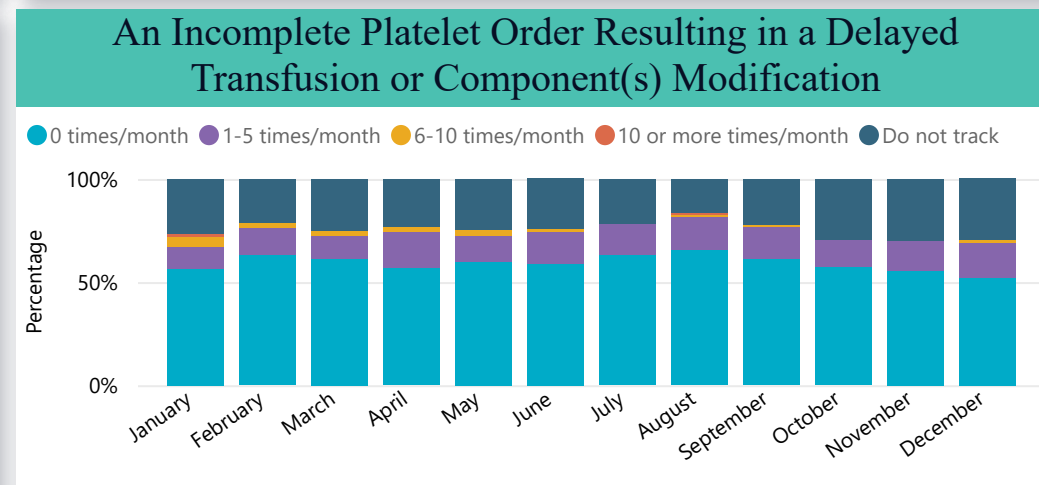
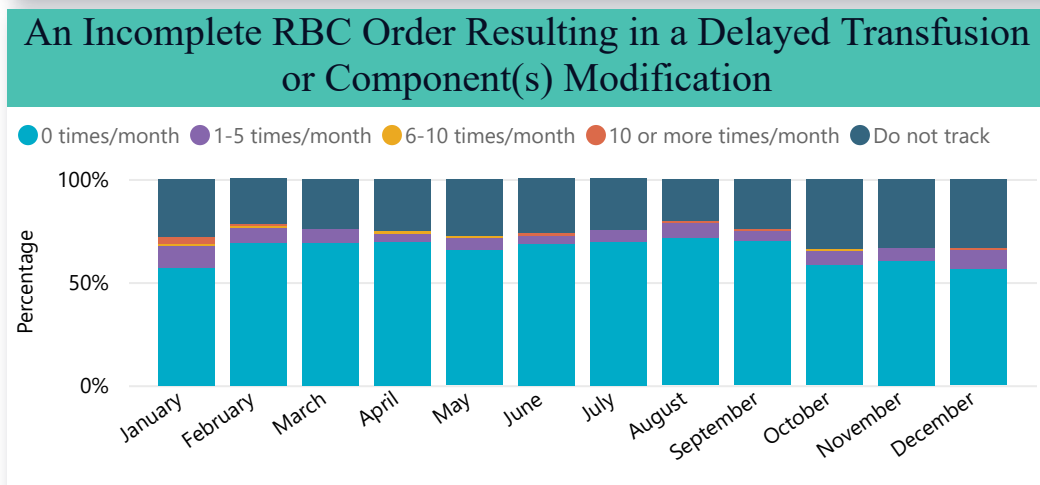
Year, Month

2021

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

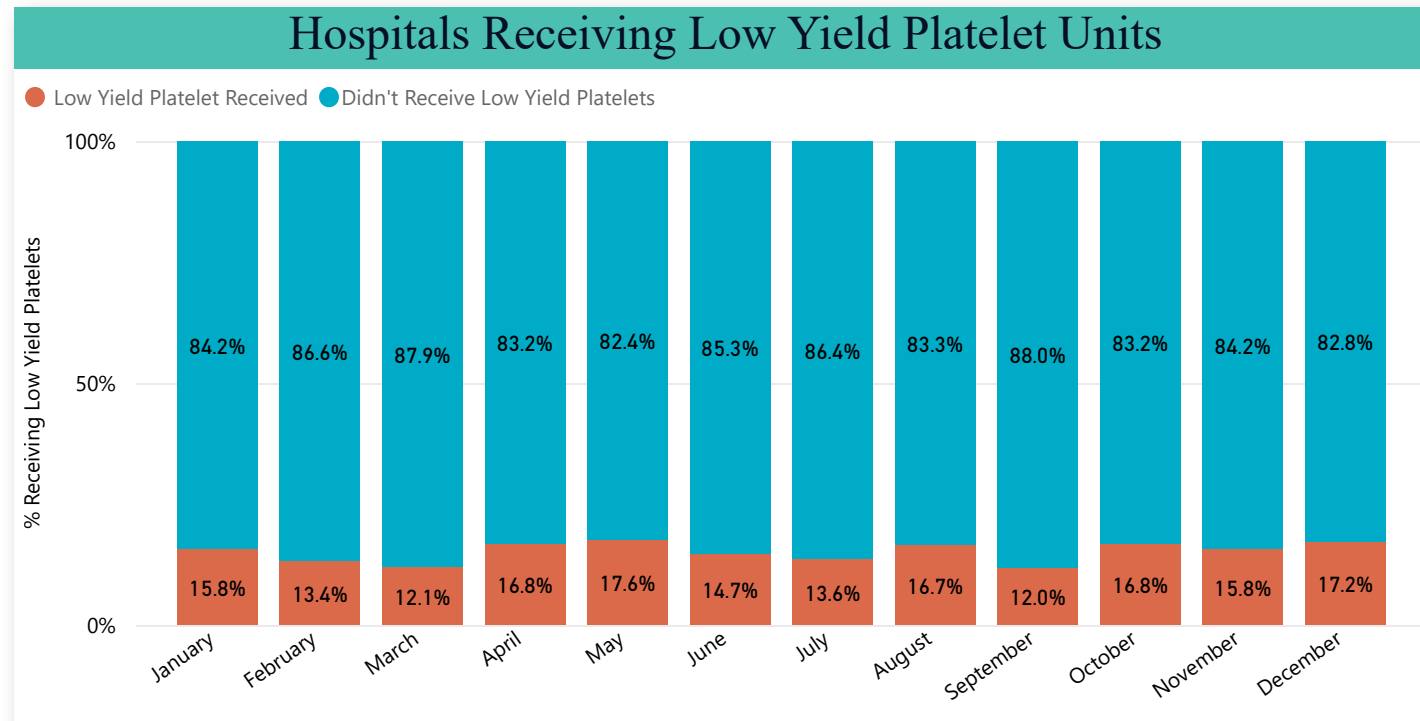
2022

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



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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