AABB Monthly Platelet & Group O Survey

Welcome to the report from 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. Please fill out the monthly 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 – June 2022):

Collections (page 3 & 4)

- Blood collection data (page 3) represent approximately 75% 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 overall collections, as well as the results from 14 blood centers that reported data consistently, showed that Group O+ve RBC, Group O-ve RBC and platelet collections in June 2022 were lower compared with May 2022. Group O+ve RBC collection was the lowest since the beginning of this project in June 2021.

- The overall platelet wastage rate at blood centers was lower in June 2022 compared with May 2022 (page 3).

Transfusions (page 5)

- Our data showed higher average Group O+ve and Group O-ve RBC utilization, but lower platelet transfusion volumes for the participating hospitals in June 2022 compared with May 2022.
- Hospital platelet wastage rate was comparable in June 2022 with May 2022. Wastage rates also differ based on expiration date of platelets (e.g., short dated when received), hospital characteristics, ability to return units, cancelled procedures and inventory management systems.

Shortage indicators (page 6)

- The proportion of hospitals using a secondary supplier for their blood in June 2022 was lower compared with May 2022.
- Only a small fraction of hospitals split platelet units to extend their inventory.
- Approximately 50% of the participating hospitals reported not being able to split platelet units in June 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 lowest in June 2022 since the beginning of this project in June 2021.
- 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 June 2022 compared with May 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 14.74% in June 2022, lower compared with May 2022.

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I thank you to all those who responded to this survey.

Methods:
- The survey is released to more than 800 AABB member hospitals and 50 AABB member blood centers (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 prepooled 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 14 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 Total Platelets wasted/(Total Platelets wasted+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 20 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: 8/17/2022. 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 srajhbandary@aabb.org.

Reference:

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COLLECTION

Platelet units

Total Platelet Collection

Year | 2021 | 2022
--- | --- | ---
June | 0.14M | 0.14M
July | 0.14M | 0.15M
August | 0.14M | 0.15M
September | 0.14M | 0.14M
October | 0.14M | 0.14M
November | 0.14M | 0.15M
December | 0.14M | 0.14M
January | 0.14M | 0.14M
February | 0.14M | 0.14M
March | 0.14M | 0.14M
April | 0.14M | 0.14M
May | 0.14M | 0.14M
June | 0.14M | 0.14M

Average Platelet Wastage Rate by Collection Centers

Year | 2021 | 2022
--- | --- | ---
June | 1.9% | 3.2%
July | 5% | 3.2%
August | 2.8% | 2.2%
September | 2.4% | 2.7%
October | 2.2% | 5.2%
November | 2.4% | 4.3%
December | 4.8% | 4.8%
January | 2.5% | 2.5%
February | 2.5% | 2.5%
March | 2.5% | 2.5%
April | 2.5% | 2.5%
May | 2.5% | 2.5%
June | 2.5% | 2.5%

Group O Red Blood Cell (RBC)

Total Group O Positive RBC Collection

Year | 2021 | 2022
--- | --- | ---
June | 0.25M | 0.25M
July | 0.26M | 0.26M
August | 0.27M | 0.27M
September | 0.25M | 0.25M
October | 0.23M | 0.23M
November | 0.24M | 0.24M
December | 0.26M | 0.26M
January | 0.24M | 0.24M
February | 0.24M | 0.24M
March | 0.24M | 0.24M
April | 0.22M | 0.22M
May | 0.22M | 0.22M
June | 0.22M | 0.22M

Total Group O Negative RBC Collection

Year | 2021 | 2022
--- | --- | ---
June | 73K | 68K
July | 74K | 64K
August | 77K | 72K
September | 76K | 67K
October | 70K | 69K
November | 65K | 66K
December | 71K | 66K
January | 64K | 66K
February | 66K | 66K
March | 69K | 66K
April | 67K | 66K
May | 64K | 66K
June | 66K | 66K

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A total of 14 blood centers (representing approximately 60% of the blood supply) have consistently supplied survey data. The amalgamated blood collection data from these centers is shown below.

### AABB Monthly Platelet & Group O Survey

**Collection Data for 14 Blood Centers that Consistently Provided Survey Data**

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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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INVENTORY ISSUES

Use of Secondary Supplier

- No use of a secondary supplier
- Yes, 1-4 times in the month
- Yes, 5-10 times in the month
- Yes, 11 or more times in the month

<table>
<thead>
<tr>
<th>Month</th>
<th>0%</th>
<th>50%</th>
<th>100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>60.47%</td>
<td>18.92%</td>
<td>8.11%</td>
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<tr>
<td>February</td>
<td>71.19%</td>
<td>20.34%</td>
<td>8.47%</td>
</tr>
<tr>
<td>March</td>
<td>72.17%</td>
<td>18.26%</td>
<td>9.57%</td>
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<tr>
<td>April</td>
<td>76.38%</td>
<td>19.01%</td>
<td>4.61%</td>
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<tr>
<td>May</td>
<td>71.84%</td>
<td>22.33%</td>
<td>5.83%</td>
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<tr>
<td>June</td>
<td>73.79%</td>
<td>17.48%</td>
<td>8.73%</td>
</tr>
</tbody>
</table>

Hospital Low Yield Platelet Units Manufacture due to Inventory Concerns

- No
- Unable to split platelet units
- Yes, split 1-4 units
- Yes, split 5-10 units
- Yes, split 11 or more units

<table>
<thead>
<tr>
<th>Month</th>
<th>0%</th>
<th>50%</th>
<th>100%</th>
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<tbody>
<tr>
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<td>64.95%</td>
<td>49.64%</td>
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<td>47.99%</td>
<td>49.58%</td>
<td>2.45%</td>
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<td>March</td>
<td>48.28%</td>
<td>49.14%</td>
<td>2.58%</td>
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<tr>
<td>April</td>
<td>44.17%</td>
<td>54.17%</td>
<td>11.66%</td>
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<tr>
<td>May</td>
<td>42.72%</td>
<td>55.34%</td>
<td>12.03%</td>
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<tr>
<td>June</td>
<td>49.02%</td>
<td>50.00%</td>
<td>0.98%</td>
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</table>

An Incomplete RBC Order Resulting in a Delayed Transfusion or Component(s) Modification

- 0 times/month
- 1-5 times/month
- 6-10 times/month
- 10 or more times/month
- Do not track

<table>
<thead>
<tr>
<th>Month</th>
<th>0%</th>
<th>50%</th>
<th>100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>27.93%</td>
<td>56.76%</td>
<td>6.21%</td>
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<tr>
<td>February</td>
<td>21.85%</td>
<td>68.91%</td>
<td>6.21%</td>
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<td>March</td>
<td>24.16%</td>
<td>69.42%</td>
<td>6.42%</td>
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<td>April</td>
<td>24.79%</td>
<td>66.08%</td>
<td>6.21%</td>
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<tr>
<td>May</td>
<td>27.00%</td>
<td>69.93%</td>
<td>6.21%</td>
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<tr>
<td>June</td>
<td>26.21%</td>
<td>68.93%</td>
<td>6.21%</td>
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</tbody>
</table>

An Incomplete Platelet Order Resulting in a Delayed Transfusion or Component(s) Modification

- 0 times/month
- 1-5 times/month
- 6-10 times/month
- 10 or more times/month
- Do not track

<table>
<thead>
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<th>Month</th>
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</tr>
</thead>
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<tr>
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<td>26.36%</td>
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<td>17.27%</td>
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<tr>
<td>February</td>
<td>21.01%</td>
<td>63.03%</td>
<td>15.96%</td>
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<tr>
<td>March</td>
<td>25.00%</td>
<td>61.21%</td>
<td>13.79%</td>
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<tr>
<td>April</td>
<td>23.14%</td>
<td>57.02%</td>
<td>19.84%</td>
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<tr>
<td>May</td>
<td>26.27%</td>
<td>60.19%</td>
<td>13.55%</td>
</tr>
<tr>
<td>June</td>
<td>24.27%</td>
<td>59.22%</td>
<td>16.51%</td>
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## Low Yield Platelets

### Hospitals Receiving Low Yield Platelet Units

<table>
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<tr>
<th>Year, Month</th>
<th>% Receiving Low Yield Platelets</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021 June</td>
<td>15.84%</td>
</tr>
<tr>
<td>2021 July</td>
<td>13.39%</td>
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<tr>
<td>2021 August</td>
<td>12.12%</td>
</tr>
<tr>
<td>2021 September</td>
<td>16.81%</td>
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<tr>
<td>2021 October</td>
<td>17.58%</td>
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<tr>
<td>2021 November</td>
<td>14.74%</td>
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<td>2021 December</td>
<td></td>
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<tr>
<td>2022 January</td>
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<td>2022 February</td>
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<td>2022 March</td>
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<td>2022 April</td>
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<td>2022 May</td>
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<tr>
<td>2022 June</td>
<td></td>
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</tbody>
</table>

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