AABB Monthly Platelet & Group O Survey

Thank you to all those who responded to this survey.

Major conclusions (June – September, 2021):

Collections (page 3)
• Blood collection data represent approximately 85% of the blood collected in the US.
  o Response to the survey increased with each month.
  o There was an increase in blood collection center platelet collections in July compared to June. While the reported increase in platelet collection in the month of August (compared to July) may be attributed to the inclusion of a new blood collection center response, there was a decline in total platelet collection between August and September.
  o Group O RBC units did not show similar change in collection.

Transfusions (page 4)
• The average hospital platelet wastage rate for the months of June-September, 2021 was 9.3%.
• Transfusion volumes and wastage rates differ markedly based on hospital characteristics.
• Wastage rates also differ based on expiration date of platelets (e.g., short dated when received), ability to return units, cancelled procedures as well inventory management system.
• While the drop in average platelet transfusions in August may be due to cancelled procedures as a result of the delta variant surge, continued data collection and a full analysis of hospital size and other hospital characteristics will help us better understand the trend.

Shortage indicators (page 5)
• Approximately 25% of hospitals turn to a secondary supplier to fill their blood needs.
  o Most respondents turn to a secondary supplier only 1-4 times/month.
• Only a small fraction of hospitals split platelet units to extend their inventory.
• Approximately 8 – 22% of hospitals reported that incomplete RBC orders led to either a delay in patient care or a need to split RBC units to fill transfusion orders.
  o Approximately 23 – 38% of respondents do not track this information.
• Approximately 20 – 30% of hospitals reported that incomplete platelet orders led to either a delay in patient care or a need to split platelet units to fill transfusion orders.
  o Approximately 17 – 35% of respondents do not track this information.

Please complete the permission request form to use data from this report: Click here
AABB Monthly Platelet & Group O Survey

Thank you to all those who responded to this survey.

Methods:
- The survey is released to over 800 AABB member hospitals and 50 AABB member blood centers (consolidated responses were collected for blood centers operating in more than one region).
- 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.
- For hospitals, platelet wastage due to outdate and other reasons are aggregated.
- For hospitals, platelet wastage rate was 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.

Limitations:
- The survey report is a visual snapshot of survey respondents and doesn't provide the national estimates.
- No data imputation and weighting procedures are applied. However, AABB does accept retrospective data and will update data as they are received.
- Response rate vary between each monthly survey. However, the response rate from blood collection centers was consistently high.
- 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 report.

Current Data:
- Last updated: 11/9/2021. Members interested in providing data for past months can contact AABB via srajbhandary@aabb.org.

Reference:
AABB Monthly Platelet & Group O Survey

COLLECTION

Platelet units

Total Platelet Collection

<table>
<thead>
<tr>
<th>Month</th>
<th>0K</th>
<th>50K</th>
<th>100K</th>
<th>150K</th>
</tr>
</thead>
<tbody>
<tr>
<td>June</td>
<td>133K</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>July</td>
<td>145K</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>August</td>
<td>158K</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>September</td>
<td>153K</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Average Platelet Wastage Rate by Collection Centers

<table>
<thead>
<tr>
<th>Month</th>
<th>0%</th>
<th>1%</th>
<th>2%</th>
<th>3%</th>
<th>4%</th>
</tr>
</thead>
<tbody>
<tr>
<td>June</td>
<td>1.9%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>July</td>
<td></td>
<td>3.2%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>August</td>
<td></td>
<td></td>
<td>2.8%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>September</td>
<td></td>
<td></td>
<td></td>
<td>2.2%</td>
<td></td>
</tr>
</tbody>
</table>

Group O Red Blood Cell (RBC)

Total Group O Positive RBC Collection

<table>
<thead>
<tr>
<th>Month</th>
<th>0M</th>
<th>0.1M</th>
<th>0.2M</th>
<th>0.3M</th>
</tr>
</thead>
<tbody>
<tr>
<td>June</td>
<td>0.24M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>July</td>
<td>0.26M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>August</td>
<td>0.26M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>September</td>
<td>0.27M</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Group O Negative RBC Collection

<table>
<thead>
<tr>
<th>Month</th>
<th>0K</th>
<th>20K</th>
<th>40K</th>
<th>60K</th>
<th>80K</th>
</tr>
</thead>
<tbody>
<tr>
<td>June</td>
<td>71K</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>July</td>
<td>74K</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>August</td>
<td>77K</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>September</td>
<td>76K</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Please complete the permission request form to use data from this report: [Click here](#)
AABB Monthly Platelet & Group O Survey

Platelet units

Average Platelet Transfusion

- June: 181.7
- July: 247.9
- August: 150.6
- September: 158.4

Average Platelet Wastage Rate by Hospitals

- June: 11.2%
- July: 9.2%
- August: 7.5%
- September: 9.1%

Group O Red Blood Cell (RBC)

Average Group O Positive RBC Transfusion

- June: 284.2
- July: 363.6
- August: 216.1
- September: 223.9

Average Group O Negative RBC Transfusion

- June: 100.1
- July: 97.1
- August: 67.8
- September: 72.1

Institution Type

[All]

Please complete the permission request form to use data from this report: Click here
AABB Monthly Platelet & Group O Survey

INVENTORY ISSUES

Use of Secondary Supplier

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

Hospital Manufacture Low Yield Platelet Units due to Inventor...

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

An Incomplete RBC Order delayed a Transfusion or Created the Need to Modify Component(s) to Fill the Order

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

An Incomplete Platelet Order delayed a Transfusion or Created the Need to Modify Component(s) to Fill the Order

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

Please complete the permission request form to use data from this report: Click here