AABB Survey
COVID-19 Impact on Care of Patients Requiring Transfusion: Week 3 Snapshot

- 115 AABB institutional member hospitals from 38 states responded to the week 3 COVID-19 impact survey conducted through April 6-8, 2020.
- 69 hospitals that participated in the week 1 & Week 2 surveys also participated in week 3 survey. We are able to provide matched analysis for only few questions here.
- Data for the total COVID-19 cases were downloaded from CDC website on 4/9/2020 at 10:30 am.
- Top 5 states with COVID-19 cases were identified through the CDC database downloaded at the above mentioned date and time and can be different compared to the data provided on other websites.
COVID-19 Impact on Care of Patients Requiring Transfusion: Week 3 Survey Highlights

- 113 out of 115 hospitals responded the hospital system question; 102 respondents belonged to hospital systems and 11 to individual hospitals.
- Highest number of responding hospitals had more than 500 beds (n=48).
- 62 hospitals were both pediatric and adult hospitals, 45 were adult and 8 were pediatric hospital.
- 45 hospitals (39.1 %) out of 115 responding hospitals had implemented prospective audits for RBC orders this week, a decline from 41.7% in week 2.
- On matched set comparison— 69 hospitals that responded to week 1, 2 and 3 surveys, there was a declining trend in implementation of prospective audits for RBC orders.
- 48 hospitals (41.7%) out of 115 responding hospitals, an increase from 39.7% in week 2, had implemented prospective audits for platelet orders this week. Among the matched set hospitals, the number of hospitals implementing such audits was back to week 1 numbers (n=31).
- Among the hospitals that responded to all surveys, there was an upward trend in reassigning staff or modifying schedules to longer shifts.
- 65 (56.5%) hospitals responded they plan to assist recovered patients to donate convalescent plasma.
- While 65.2% of the responding hospitals either transfuses or intends to transfuse convalescent plasma, only 15.6% either collects or intends to collect convalescent plasma.
- 64.3% responding hospitals plan on participating in a protocol to obtain convalescent plasma under IND.
Blood Bank/Transfusion Service Actions in Response to the COVID-19 Pandemic: Week 3 Survey Response

- Implemented prospective audits for RBC orders
- Lowered RBC transfusion threshold to 7 g/dL hgb for most patient populations.
- Lowered RBC transfusion threshold below 7 g/dL hgb for any patients
- Implemented prospective audits for platelet orders
- Lowered platelet count threshold for transfusion
- Discontinued prophylactic platelet transfusions for heme-onc
- Implemented splitting platelet and/or RBC of units
- If not implemented yet, have you planned for splitting platelet and/or RBC of units?
- Implemented extending expiration of platelet units beyond 5 days
- If not implemented yet, have you planned for extending expiration of platelet units beyond 5 days?
- Created or revised a plan in the event that no blood is available for transfusion
- Limited the number of blood component units available during an MTP

% Response:

- Implemented prospective audits for RBC orders: 45 Yes, 48 No, 13 Don’t know, 2 NA
- Lowered RBC transfusion threshold to 7 g/dL hgb for most patient populations: 50 Yes, 30 No, 0 Don’t know, 2 NA
- Lowered RBC transfusion threshold below 7 g/dL hgb for any patients: 87 Yes, 13 No, 0 Don’t know, 0 NA
- Implemented prospective audits for platelet orders: 48 Yes, 48 No, 0 Don’t know, 0 NA
- Lowered platelet count threshold for transfusion: 84 Yes, 19 No, 6 Don’t know, 0 NA
- Discontinued prophylactic platelet transfusions for heme-onc: 100 Yes, 0 No, 0 Don’t know, 0 NA
- Implemented splitting platelet and/or RBC of units: 96 Yes, 6 No, 0 Don’t know, 0 NA
- If not implemented yet, have you planned for splitting platelet and/or RBC of units?: 65 Yes, 25 No, 0 Don’t know, 0 NA
- Implemented extending expiration of platelet units beyond 5 days: 93 Yes, 16 No, 0 Don’t know, 0 NA
- If not implemented yet, have you planned for extending expiration of platelet units beyond 5 days?: 58 Yes, 24 No, 0 Don’t know, 0 NA
- Created or revised a plan in the event that no blood is available for transfusion: 57 Yes, 40 No, 0 Don’t know, 0 NA
- Limited the number of blood component units available during an MTP: 90 Yes, 21 No, 0 Don’t know, 0 NA
Matched Set Analysis - 69 Respondents completing Week 1, 2 and 3 Surveys

- Implemented prospective audits for RBC orders: 30 respondents in Week 1, 30 in Week 2, 26 in Week 3.
- Implemented prospective audits for platelet orders: 30 respondents in Week 1, 30 in Week 2, 28 in Week 3.
- Discontinued prophylactic platelet transfusions for hem-onc: 19 respondents in Week 1, 19 in Week 2, 19 in Week 3.
- Implemented extending expiration of platelet units beyond 5 days: 26 respondents in Week 1, 26 in Week 2, 26 in Week 3.
- Created or revised a plan in the event that no blood is available for transfusion: 26 respondents in Week 1, 26 in Week 2, 26 in Week 3.
- Is your hospital still performing elective surgeries (routine - please don't count life saving surgeries)?: 19 respondents in Week 1, 19 in Week 2, 19 in Week 3.
- Receive Local/Regional inventory level updates: 26 respondents in Week 1, 26 in Week 2, 26 in Week 3.
- Reassigned staff or modified schedules to longer shifts: 26 respondents in Week 1, 26 in Week 2, 26 in Week 3.

Week 1: Yes  Week 2: Yes  Week 3: Yes
Blood Bank/ Transfusion Services Response: Top 5 States with COVID-19 Cases
(Week 3 Survey)

- New York (n=6)
- New Jersey (n=5)
- Michigan (n=1)
- Louisiana (n=5)
- California (n=11)

Implemented prospective audits for RBC orders
Lowered RBC transfusion threshold to 7 g/dL hgb for most patient populations.
Lowered RBC transfusion threshold below 7 g/dL hgb for any patients
Implemented prospective audits for platelet orders
Lowered platelet count threshold for transfusion
Discontinued prophylactic platelet transfusions for heme-onc
Implemented splitting platelet and/or RBC of units
If not implemented yet, have you planned for splitting platelet and/or RBC of units?
Implemented extending expiration of platelet units beyond 5 days
If not implemented yet, have you planned for extending expiration of platelet units beyond 5 days?
Created or revised a plan in the event that no blood is available for transfusion
Limited the number of blood component units available during an MTP
Is your hospital still performing elective surgeries (routine-please don’t count life saving surgeries)?

Have you been alerted by your blood supplier that they will not be able to meet your typical inventory needs?

Have you observed an increase in wastage due to cancellation of elective surgeries?

Receive Local/Regional inventory level updates

Receive National level updates

<table>
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<th>Question</th>
<th>Yes</th>
<th>No</th>
<th>Don’t know</th>
<th>NA</th>
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<td>Is your hospital still performing elective surgeries?</td>
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<td>8</td>
<td>82</td>
<td>2</td>
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<tr>
<td>Have you been alerted by your blood supplier that they will not be able to meet your typical inventory needs?</td>
<td>14</td>
<td>29</td>
<td>82</td>
<td>2</td>
</tr>
<tr>
<td>Have you observed an increase in wastage due to cancellation of elective surgeries?</td>
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<td>59</td>
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<tr>
<td>Receive Local/Regional inventory level updates</td>
<td>55</td>
<td>59</td>
<td>59</td>
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<tr>
<td>Receive National level updates</td>
<td>55</td>
<td>59</td>
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</tbody>
</table>
Hospital Impact: Top 5 States with CoVID-19 Cases - Week 3 Survey

- New York (n=6)
- New Jersey (n=5)
- Michigan (n=1)
- Louisiana (n=5)
- California (n=11)

- Is your hospital still performing elective surgeries (routine- please don’t count life saving surgeries)?
- Have you been alerted by your blood supplier that they will not be able to meet your typical inventory needs?
- Have you observed an increase in wastage due to cancellation of elective surgeries?
- Receive Local/Regional inventory level updates
- Receive National level updates
Each state in the map has been colored in categorical color theme taking the mean response to the question on elective surgery. States where all respondents answered no elective surgeries performed are pure blue.
Each state in the map has been colored in categorical color theme taking the mean response to the question on increased wastage. States where all respondents answered no increased wastage are pure red.
Staffing Changes: COVID-19 Impact - Week 3 Survey

- Reassigned staff or modified schedules to longer shifts: 73%
  - Yes: 39%
  - No: 22%
  - Don't Know: 1%
  - NA: 3%

- Moved to split shifts to ensure staffing continuity: 86%
  - Yes: 22%
  - No: 84%
  - Don't Know: 3%
  - NA: 3%

- Extended type and screen beyond 3 days to reduce compatibility testing workload: 109%
  - Yes: 2%
  - No: 107%
  - Don't Know: 3%
  - NA: 2%
COVID-19 Pandemic impact on Staffing: Top 5 States with COVID-19 Cases (Week 3 Survey)

- New York (n=6)
- New Jersey (n=5)
- Michigan (n=1)
- Louisiana (n=5)
- California (n=11)

- Reassigned staff or modified schedules to longer shifts
- Moved to split shifts to ensure staffing continuity
- Extended type and screen beyond 3 days to reduce compatibility testing workload
Plan to assist recovered patients to donate convalescent plasma: 65%
Plan on participating in a protocol to obtain convalescent plasma under IND: 74%
Collect (or intends to collect) convalescent plasma: 18%
Transfuse (or intends to transfuse) convalescent plasma: 75%
Collect convalescent plasma intended to be available for transfusion in the donor collection area: 82%
Collect convalescent plasma intended to be available nationwide: 86%
Convalescent Plasma: Top 5 States with COVID-19 Cases

- New York (n=6)
- New Jersey (n=5)
- Michigan (n=1)
- Louisiana (n=5)
- California (n=11)

- Plan to assist recovered patients to donate convalescent plasma
- Plan on participating in a protocol to obtain convalescent plasma under IND
- Collect (or intends to collect) convalescent plasma
- Transfuse (or intends to transfuse) convalescent plasma
- Collect convalescent plasma intended to be available for transfusion in the donor collection area
- Collect convalescent plasma intended to be available nationwide