

#### 2020–2021: Mid-Year Review

**Presentation by Dr. Graham Sher, Chief Executive Officer** 

Canadian Blood Services BLOOD PLASMA STEM CELLS ORGANS & TISSUES

Open Board Meeting December 3, 2020

# What we'll cover today

**Major achievements** 

**Operations review** 

**Strategy review** 

#### **Financial review**



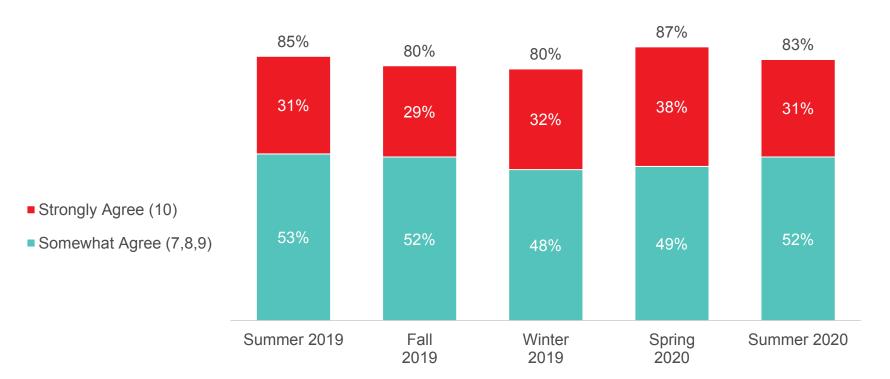
We continued to build on our success with key achievements in the first half of 2020–2021

- With national system partners, successfully managed volatile supply and demand issues with fresh blood.
- Transitioned Calgary production and distribution operations to a new location.
- Devised short and long-term plans to respond to COVID-19-related global immune globulin shortages.
- Continued supplying convalescent plasma for clinical trials; participating in seroprevalence study.
- Renewed focus on diversity, equity and inclusion.
- Continued emphasis on employee and donor wellness and safety throughout the pandemic.



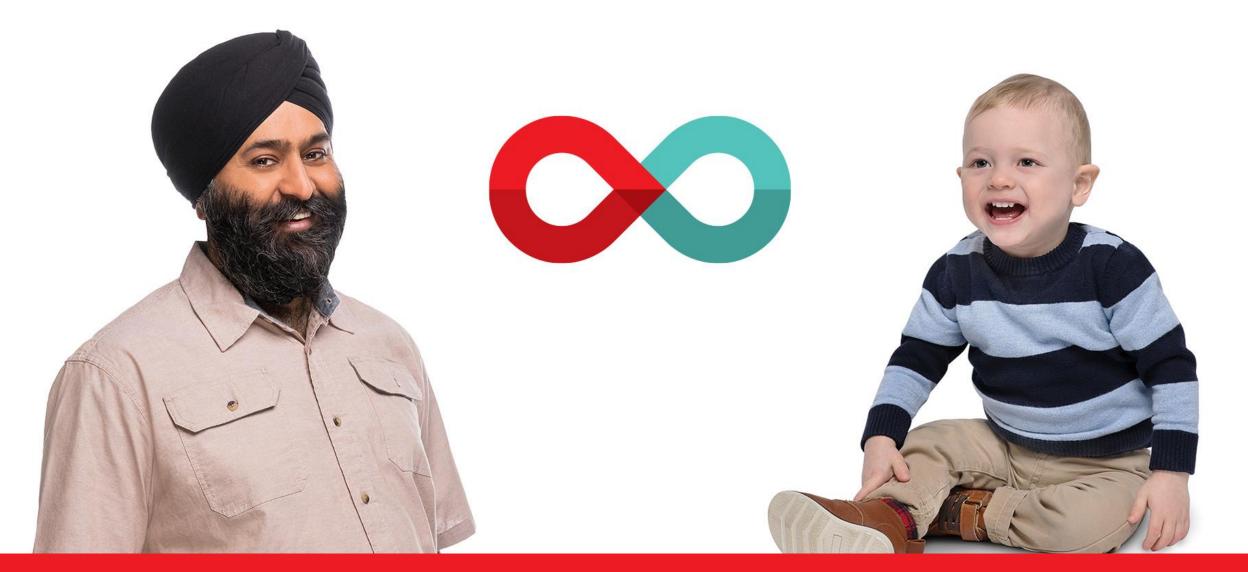
### **Trust in Canadian Blood Services**

Public trust in Canadian Blood Services increased during the height of the pandemic.



Trust Canadian Blood Services acts in best interests of the public





#### **Operations review**

### Fresh blood products



We have managed volatile supply and demand during the COVID-19 pandemic

Continued to meet hospital demand and maintain wellbalanced fresh blood product inventory despite instability by:

- Working with the National Emergency Blood Management Committee (NEBMC) and other health system partners.
- Adjusting collection plans in response to significant drop in red blood cell demand in Q1, followed by resurgence in Q2.
- Shifting collections away from mobile venues, achieving 69 per cent of collections from fixed donor centres.



### Hospital order fill rates

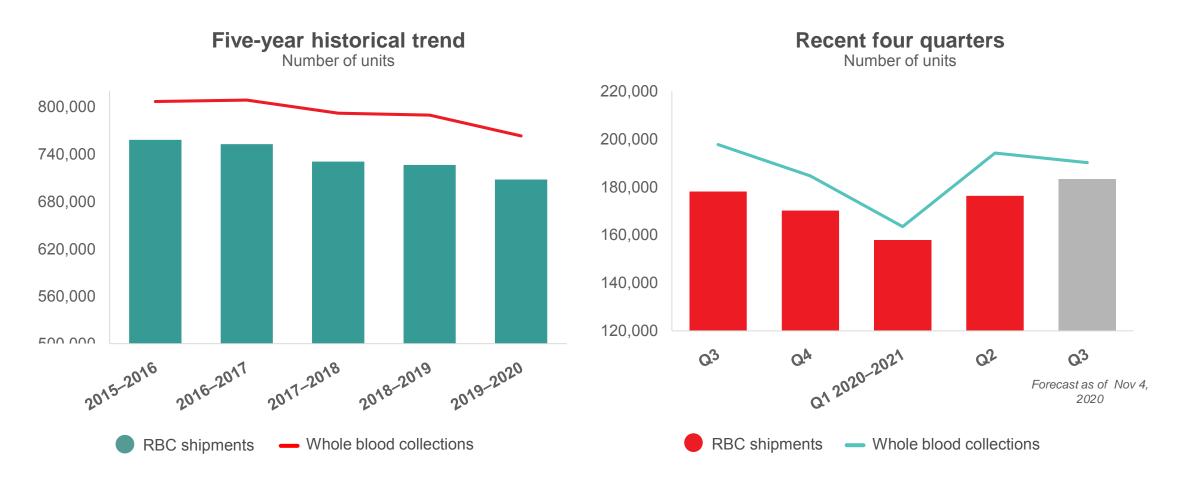
Consistently met hospital demand throughout the first half of this year for nearly all fresh blood products.

| Product                                | Target | Q1–Q2 |
|--|--------|-------|
| Red blood cells (excluding O negative) | 98%    | 99%   |
| O negative                             | 95%    | 100%  |
| Platelets                              | 98%    | 99%   |
| Plasma (excluding AB)                  | 98%    | 100%  |
| AB plasma                              | 95%    | 98%   |
| Cryoprecipitate                        | 98%    | 97%   |



### Red blood cell shipments and whole blood collections

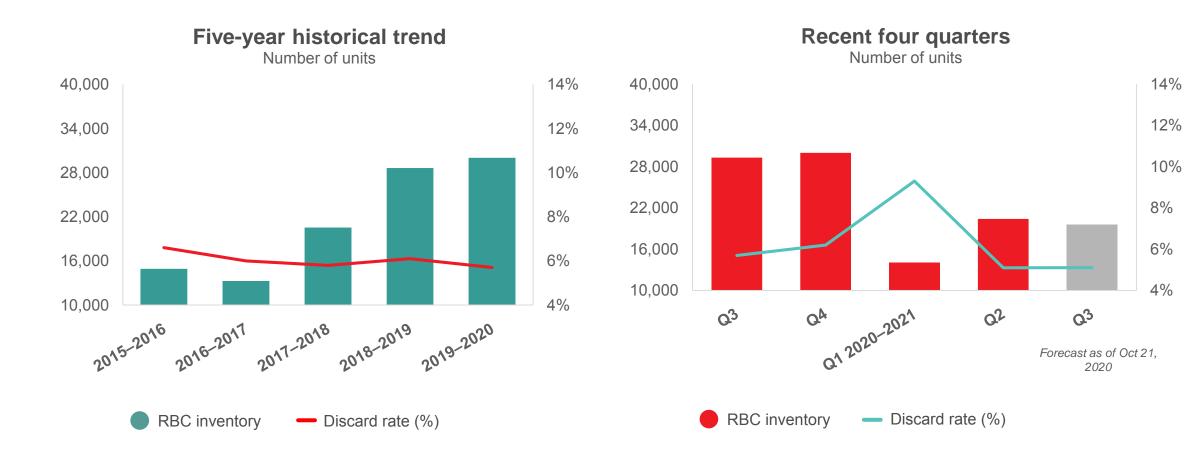
After a decline in Q1, red blood cell shipments and whole blood collections returned to near normal levels.





### Red blood cell inventory and discard rates

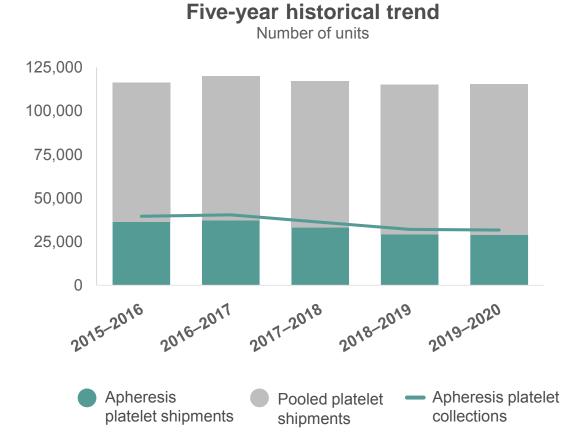
Discard rates have returned to low levels after peaking in Q1.



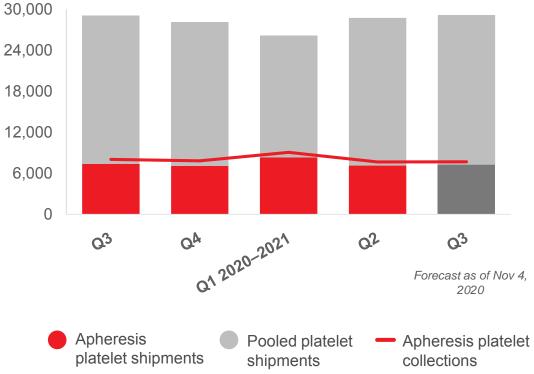


### **Platelet shipments and collections**

In Q1 overall platelet demand decreased and returned to normal levels in Q2.









# Plasma protein and related products



We continued to mature our plasma protein and related products program

- The interim product selection process with CADTH is currently being used to assess two new products: Vonvendi and Emicizumab.
- Contracted a national courier service that some hospitals use to deliver products to patients' homes during the pandemic.



**COVID-19** has caused unprecedented supply chain disruptions for industries around the world

- Global immune globulin shortages are worsening as a result of supply chain disruptions and decreased plasma collections in the U.S.
- Risk of shortages of specific vial sizes and brands in the next fiscal year is being managed with all system partners including the P/T Ministries of Health, the NEBMC, vendors, patient groups, clinicians and hospitals.



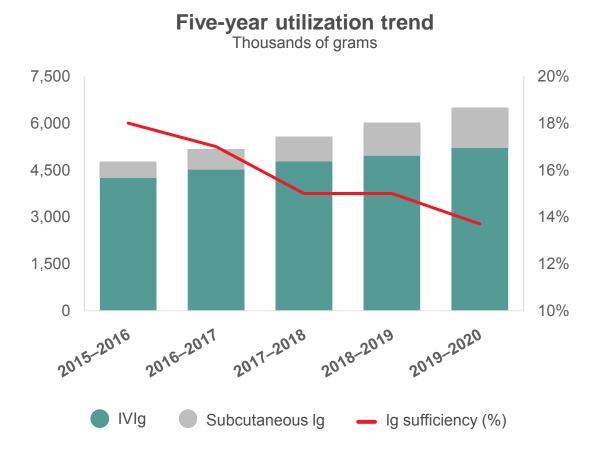
### Risk mitigation strategies in response to COVID-19

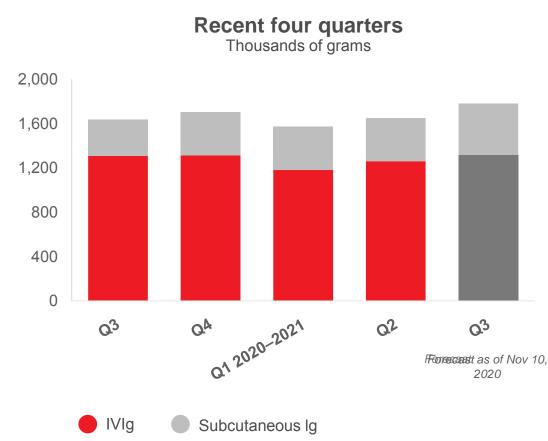
- Holding higher than normal inventory levels.
- Regular communication with vendors to actively monitor impacts to their supply chains.
- Planning to significantly increase plasma collection in Canada; accelerated urgency needed to build up domestic supply and mitigate COVID-19 related impacts.



### Immune globulin utilization and sufficiency

Demand decreased in Q1 and recovered in Q2.

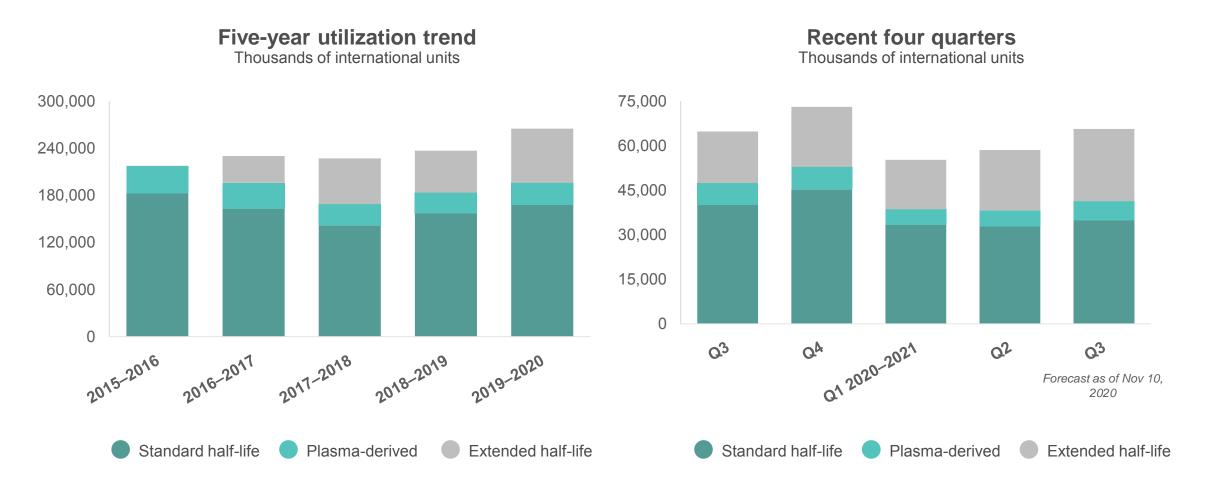






### **Factor VIII concentrate**

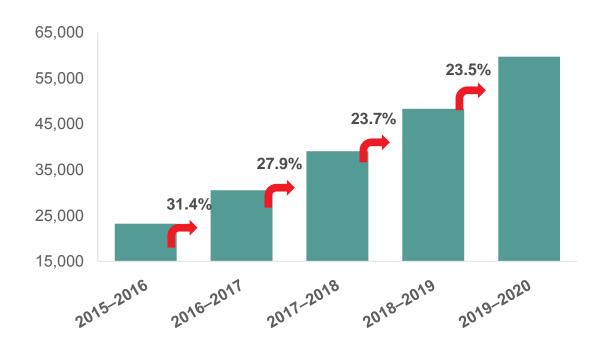
Lower than usual volumes in Q1 and Q2 as result of the pandemic.



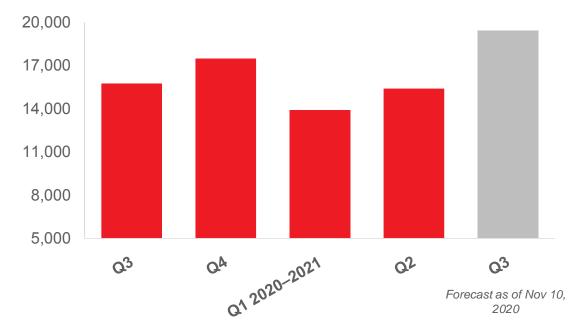


### C1 inhibitor

Usage decreased in Q1 and Q2.



**Five-year utilization trend** Thousands of international units Recent four quarters utilization Thousands of international units





### **Stem cells**



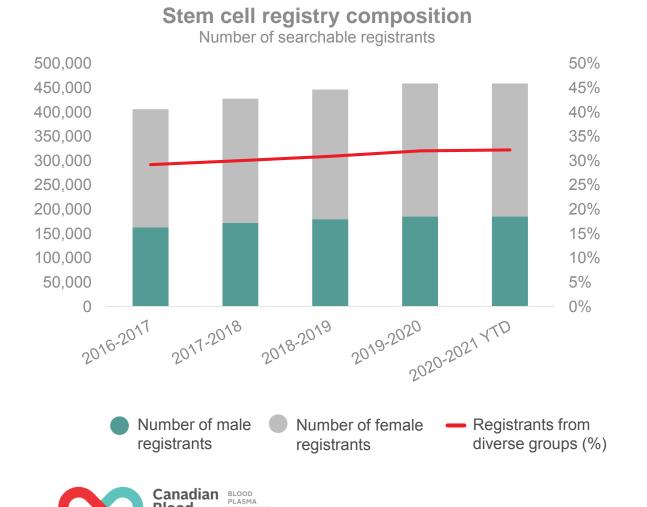
Normal programs and operations have resumed or been adapted

- International border restrictions have generated:
  - Increased interest in Canadian donors for Canadian recipients.
  - Increased demand for cord blood units.
- Cord blood collection and processing have resumed.
- Cord Blood for Research Program has resumed.
- Community recruitment of stem cell registrants remains indefinitely on hold.
  - Shifting to digital recruitment.
  - Focus on improving the current online registration process.
  - Focus on improving commitment, retention and availability of current donors.



### **Stem cell registry**

Stem cell transplant activities returned to normal in Q2.



Blood

Services

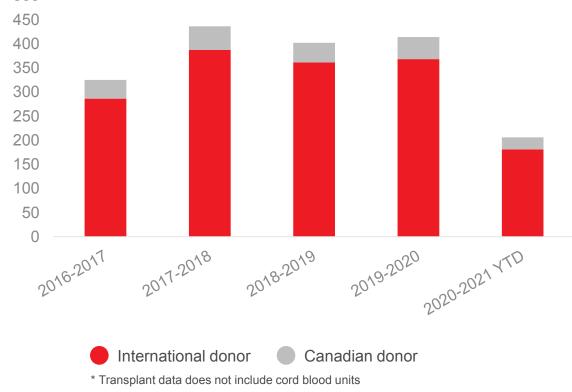
STEM CELLS

& TISSUE

#### Canadian stem cell transplants\*

Number of Canadian transplant patients

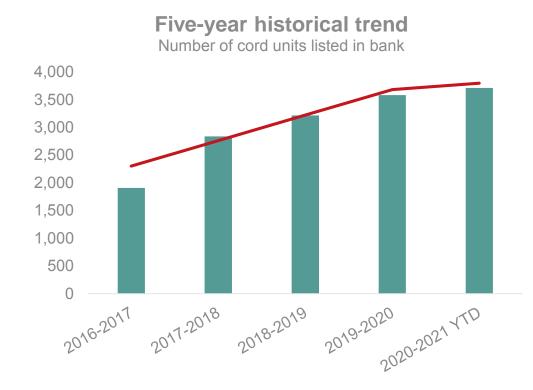
500

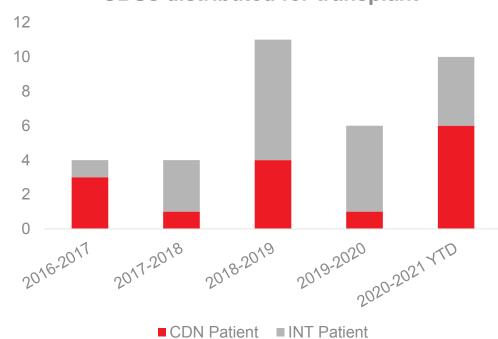


21

### Cord blood bank — cumulative bank size

Saw a significant increase in cord blood units used for transplant in Q1 and Q2.



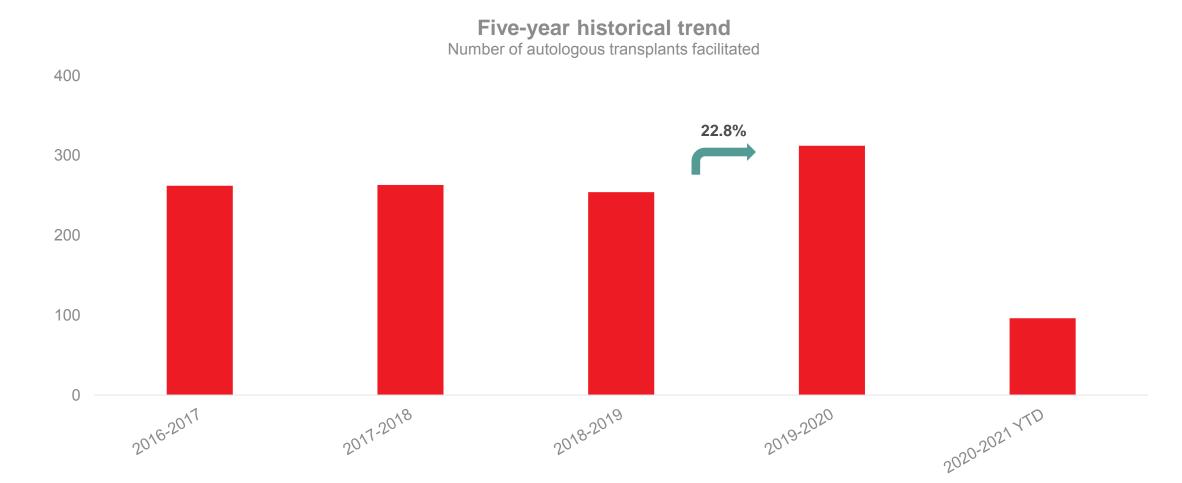






### Autologous stem cell program

Experienced a decline in Q1 due to the pandemic with recovery started in Q2.





### Organs and tissues



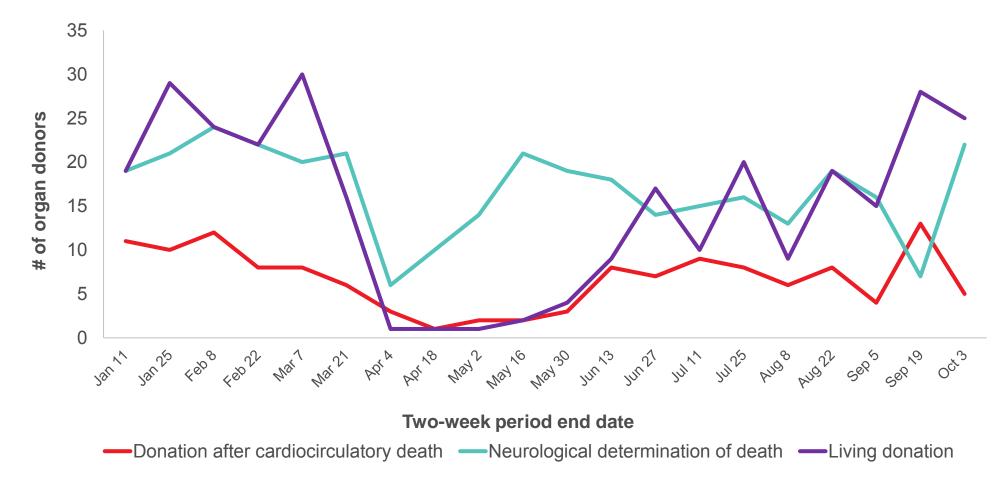
### Impact of COVID-19 pandemic on activities

- The Kidney Paired Donation program was paused for eight weeks.
- The Highly Sensitized Patient program continued to operate. Programs were more selective with candidates being considered for transplant.
- National and international meetings were held virtually to inform the development of <u>national guidance documents</u>, national data collection and evidence gathering.



### **Organ donations in Canada during COVID-19**

The number of organ donors declined in March and April in the early weeks of the COVID-19 pandemic.





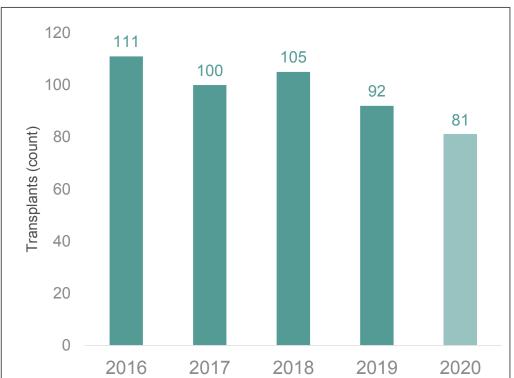
### Interprovincial organ sharing programs: kidney transplants facilitated

Transplantation rates in both programs were adversely affected by the COVID-19 pandemic in 2020.

Transplants (count) 

Kidney Paired Donation (KPD) program

Highly Sensitized Patients (HSP) program



Lighter bars reflect projections for year-end 2020 based on transplants to date.



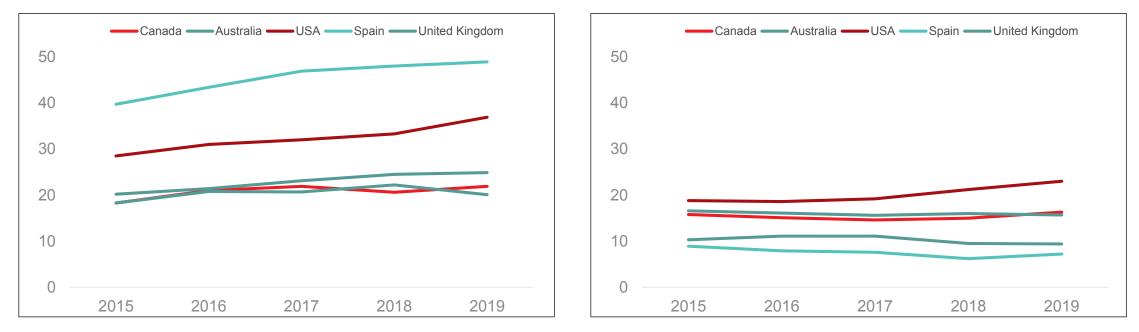
Worked with partners and stakeholders to mature our national programs and improve system performance

- Continued work with Health Canada's Organ Donation and Transplantation Collaborative to improve Canada's OTDT system.
  - Priorities include a national data strategy, appropriate governance framework for Canada's ODT partner network and further interprovincial sharing of organs.
- The project to share hearts for hard-to-match patients interprovincially is on track for implementation in summer 2021.
- Finalized recommendations from the national consensus forum on improving access to cornea donation and transplantation services in Canada.
- Developed a new interactive reporting dashboard for organ and tissue donation and transplantation system progress data.



## Living and deceased donation rates compared internationally

Canada's national deceased donation rate increased to 21.9 donors per million population in 2019 from 20.6 in 2018. The national living donation rate increased to 16.3 dpmp in 2019 from 15.0 dpmp in 2018.



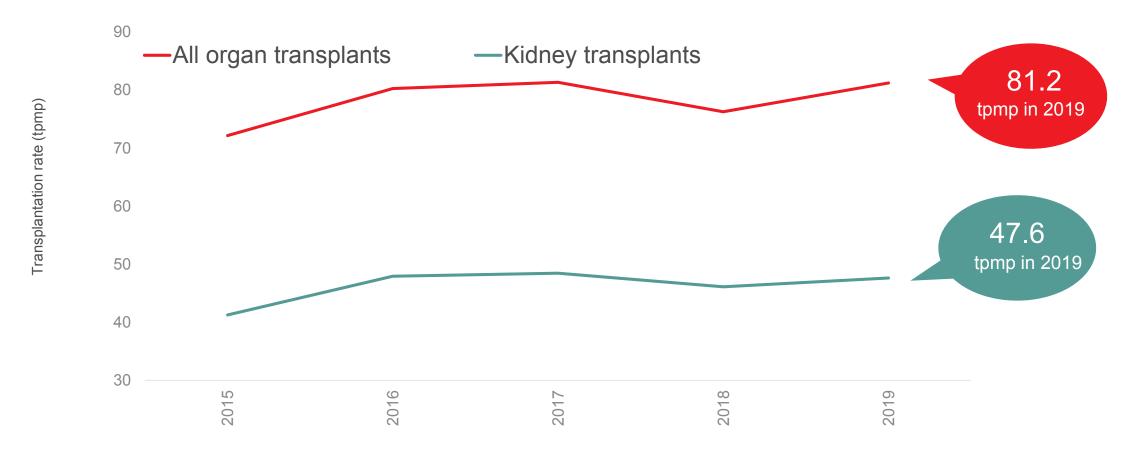
#### Deceased donation rate

Living donation rate



### **Organ transplantation rates in Canada over time**

Canada's national organ transplantation rate increased to 81.2 transplants per million population (tpmp) in 2019 from 76.3 in 2018.





### Research contributions



We contributed to research advancements in transfusion science

- Successfully processed the first pathogenreduced pooled platelet product in our development facility. This milestone will enable the next phase of work (with regional implementation in 2021–2022).
- Health Canada-funded programs continue to advance learnings to establish evidenceinformed alternative screening and collection approaches including an in-flight source plasma project.
- There have been four publications related to the men who have sex with men research and more in preparation. A total of 19 research projects have been funded over the last few years.



Canadian Blood Services is supporting therapeutic studies for COVID-19

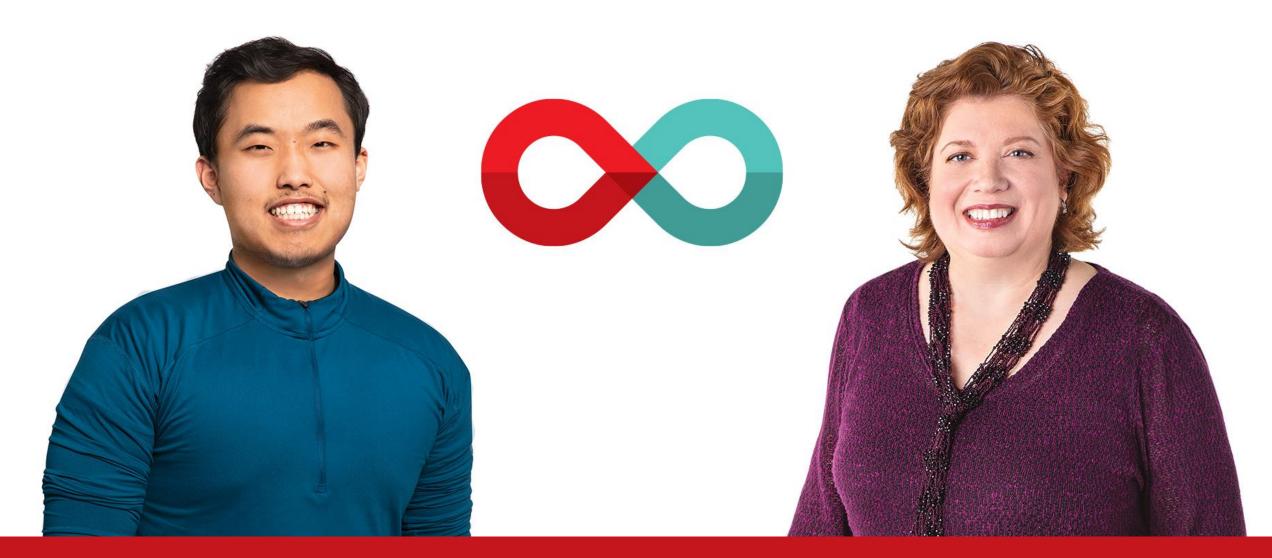
- Supplied convalescent plasma to three Health Canada-approved clinical trials to evaluate the safety and efficacy of this treatment for COVID-19 patients.
- Currently 220 donors in the program who have donated from 1 to 14 times.
- Approximately 360 patients have been enrolled in the clinical trials with 1,291 units collected, 464 units from Canadian Blood Services qualifying as convalescent plasma.
- Recently published work on the relationship between blood group and COVID-19 disease severity.



Continuing to evaluate COVID-19 immunity among blood donors to inform public health policies

- We're contributing to the review of pandemic impacts by continuing to support the Federal COVID-19 Immunity Task Force.
- Initial COVID-19 antibody development levels (e.g., seroprevalence) are 0.7% across Canada.
- COVID-19 is not considered a transfusion-transmissible disease.





### **Strategy review**

Meet changing patient needs by providing lifesaving products and services

We continued to innovate our products and services to meet patient needs

- The Ottawa stem cell manufacturing facility is processing stem cell products that are sent for further manufacturing into licensed CAR-T cell therapies (an emerging cancer therapy).
- The project to introduce INTERCEPT pathogen inactivation technology for platelets has moved into the project planning phase.
- Continued working with collaborators on freezedried plasma initiatives.



Build and deepen relationships with donors of the future

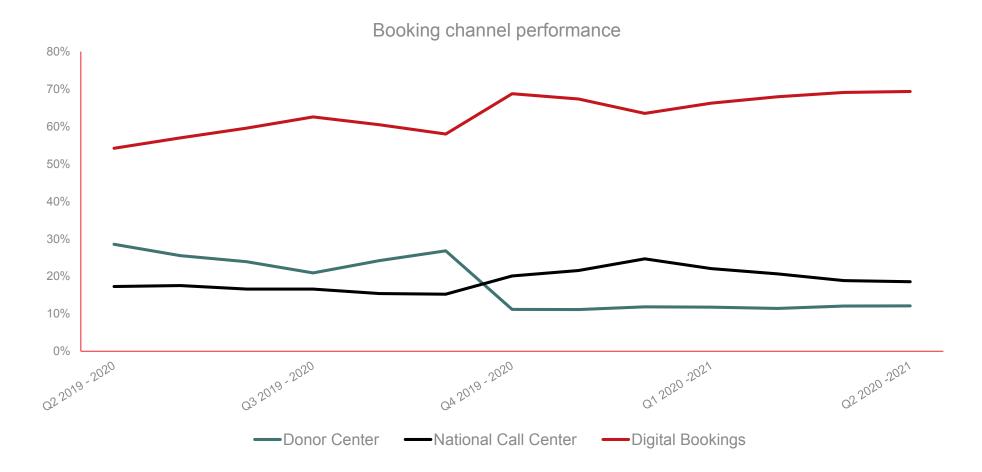
We continued to focus on the donor experience during the pandemic

- Increased digital appointment bookings
- Completed foundational work to improve donor diversity, including evaluation of diversity targets and research to understand barriers to donation in various communities
- Approved plans to expand our technology capabilities to help us better understand and learn from interactions with donors



# **Digital bookings**

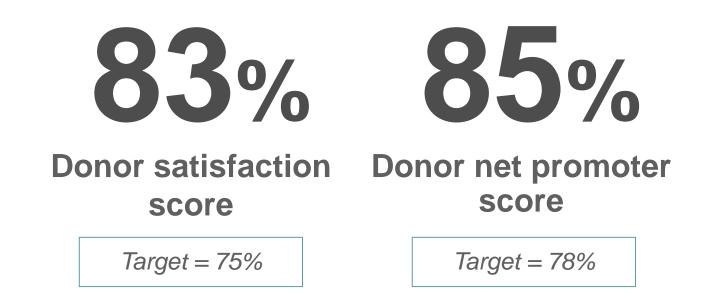
Digital appointments continued to rise to almost 70 per cent in Q2.





Build and deepen relationships with donors of the future

Donor satisfaction and engagement continued to be strong in the first two quarters





*Ensure a secure supply of Canadian plasma for immune globulin* 

We are mitigating the impacts of COVID-19 on global supply of immune globulin and increasing Canada's plasma supply

- The plasma sufficiency rate for immune globulin is currently just below 13 per cent.
- The impacts of COVID-19 on global immune globulin supply chains and the associated price hikes are expected to outlast the pandemic itself.
- Canadian Blood Services must significantly increase our plasma collections, beyond the three new sites, as immediate risk mitigation for the country.
- Planning underway for eight additional collection centres over the next three years.



*Ensure a secure supply of Canadian plasma for immune globulin* 

### Opened the first of three plasma donor centres

- Continued to progress with plasma donor centres and donor recruitment strategy, despite ongoing pandemic-related challenges.
- Sudbury temporary plasma donor centre started its operations on Aug 25.
- To the end of October:
  - 1,471 units collected.
  - 882 unique donors visited the Sudbury plasma donor centre.
  - 1,000 litre milestone surpassed early in the first week of November.



*Ensure a secure supply of Canadian plasma for immune globulin* 

### Progressing with three plasma collection centres



Sudbury (Lasalle) December 1, 2020



Kelowna June 22, 2021



Lethbridge December 22, 2020



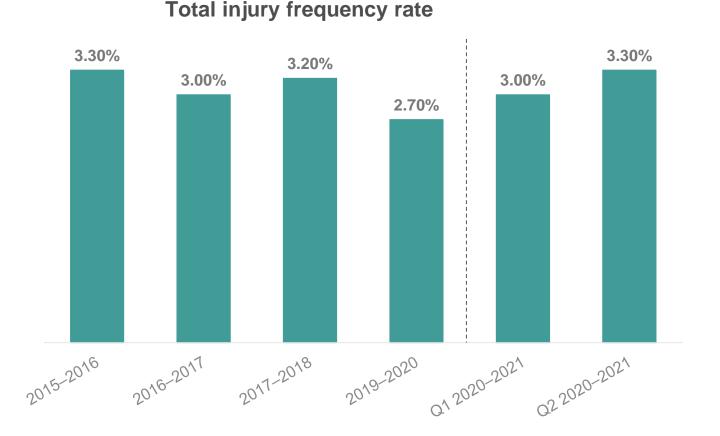
We have identified critical areas to enhance the employee experience

- Refine and extend services to support employee wellbeing:
  - New portal for working caregivers.
  - Availability of virtual drop-in counselling when needed – no appointment necessary.
  - Flu vaccines to be available for employees subject to availability.
- Wellness program participation reached 19.5 per cent, exceeding the 15 per cent target
- Significant increase in communication about the employee assistance program translated into higher utilization rates (13.5 per cent actual vs.12 per cent target)
- Continue to take a measured and phased approach for employees that need to return to work in an office setting.



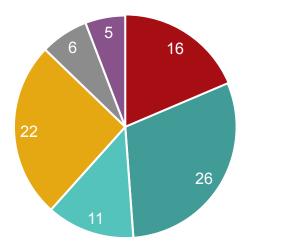
### **Occupational health and safety**

Increase in injury frequency rate in Q1 and Q2 is in part due to COVID related events.



### Total injury frequency rates are consistently below 3.5%

Top three types of injuries are struck by, manual handling, and slips, trips and falls



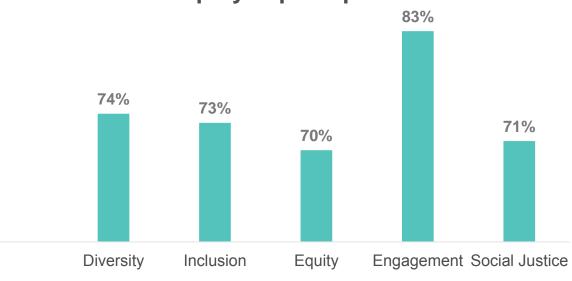
Slips, trips & falls

- Manual handling
- Exposure
- Struck
- Caught
- Needlesticks



### Diversity, Equity and Inclusion employee survey: What have we learned?

- 62 per cent of employees responded to a confidential survey about the organization's demographics and evaluated organizational efforts in five dimensions related to Diversity, Equity and Inclusion (DEI).
- Employees are deeply engaged in our mission and purpose, while recognizing that there is work to be done to create a diverse, equitable, and inclusive organization.

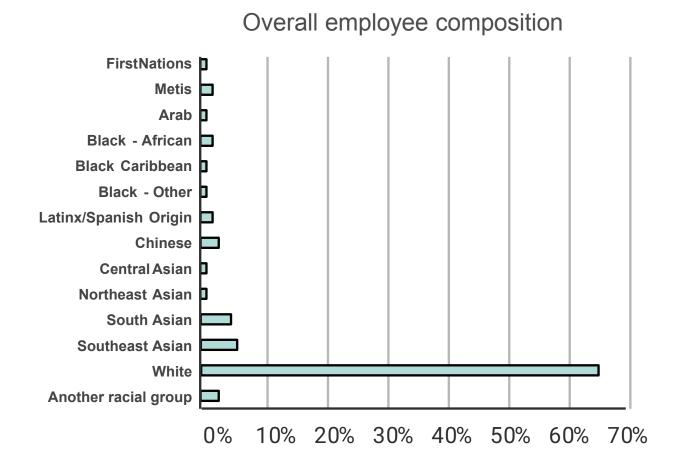


DEI employee perceptions

Graph shows % who responded agree or strongly agree



## Demographics by racial or ethnic group



Q: What racial groups do you belong to? Select all that apply Base Size (Excluding 'Prefer not to answer): Race [n=1876]

- At the aggregate racial identity perspective our organization reflects much of the diversity we see across Canada, recognizing important areas requiring improvement and focus.
- Employee identified as approximately 65% White, 21% racialized and 3% Indigenous.
- At the director level 88% identified as White, 15% racialized and 3% Metis and 100% identified as white in the executive level.
- Racialized and white employees have similar overall perceptions of DEI work at Canadian Blood Services and would like to see many of the same changes.



Gender and sexual orientation are important aspects of employee identity

 72%
 26%

 Beyond normative binary
 Men
 Women

 Women represent the largest group of employees and are generally well represented in management layers except the executive layer.
 Max 2000

 86%
 Max 2000

### Heterosexual

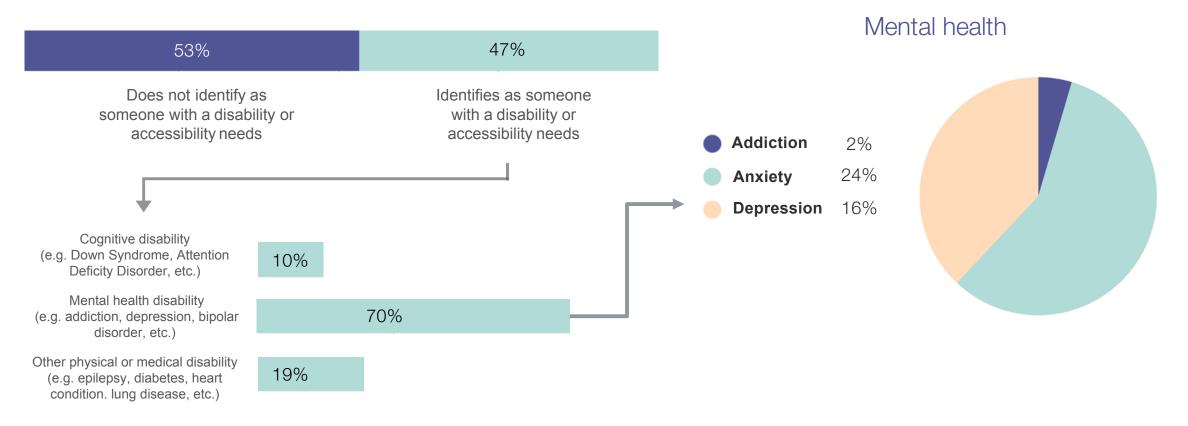
LGBQ+

- LGBQ+ employees represent 14 per cent of employees. They expressed similar sentiments regarding diversity, equity and inclusion as other employees.
- Among LGBQ+ employees 41 per cent share their identities and 15 per cent partially share their identities with others.
- Transgender employees reported less positive experiences and perceptions related to DEI.
- The percentage of non-heterosexual leaders ranges from 14 per cent at the supervisor level to 8 per cent at the director level.



### **Disability and accessibility needs**

Mental health is an important consideration for employee supports.





### There are five key areas around which we will dedicate concrete action

- Psychological safety, some employees feel comfortable expressing themselves while others fear reprisal or recrimination.
- 2. Equitable and transparent processes, most notably around career progression.
- **3.** Strong and sustained action around DEI, notably speed and consistency.
- 4. DEI education as a first step to addressing bias and racism.
- 5. Diversity in the senior leadership ranks, employees recognize opportunity to improve diversity in the executive team.



### There are five vulnerable groups identified as requiring specific supports and attention

- Transgender employees
- Racialized employees
- Indigenous employees
- Front-line employees
- Employees struggling with mental health



### What's next?

We are committed to sustained action to advance diversity, equity and inclusion

- Launched two new executive sponsored employee resources groups for Black, Indigenous and people of colour and for employees with disabilities.
- Started the education journey with formal DEI and Indigenous engagement education at our executive levels.
- Continue to improve our mental health and front-line employee supports.
- System changes will assess and improve diversity of candidate pipelines, career advancement and promotion processes among other changes.
- We will enhance the mechanism to combat discrimination and harassment, bolstering our existing policies.



# Diversity, equity and inclusion journey (employees)





Achieve organizational excellence

We continued our commitment to excellence through several key initiatives

- Progress continued on a number of initiatives:
  - Continued to advance online ordering pilot with BC hospitals, working toward a national rollout.
  - Continue our journey to mature our quality management system through automation.
- The organization is operating in a state-of-control; albeit with opportunities to improve the timeliness of deviation approval and in the corrective/preventive action program.



Achieve organizational excellence

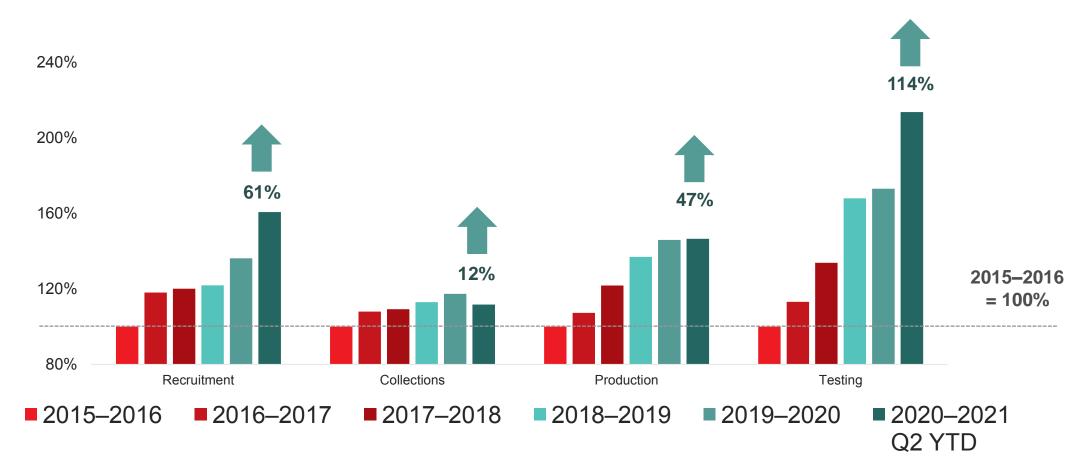
Transitioned Calgary production and distribution operations to a new location





# Year-end / year-to-date productivity results

Productivity shows strong but mixed results. The pandemic has introduced challenges increasing productivity in collection environments due to new safety and wellness requirements to protect donors.





**Quality indicators** Overall the quality index showed acceptable results; some reported errors and recalls being addressed through QMS.

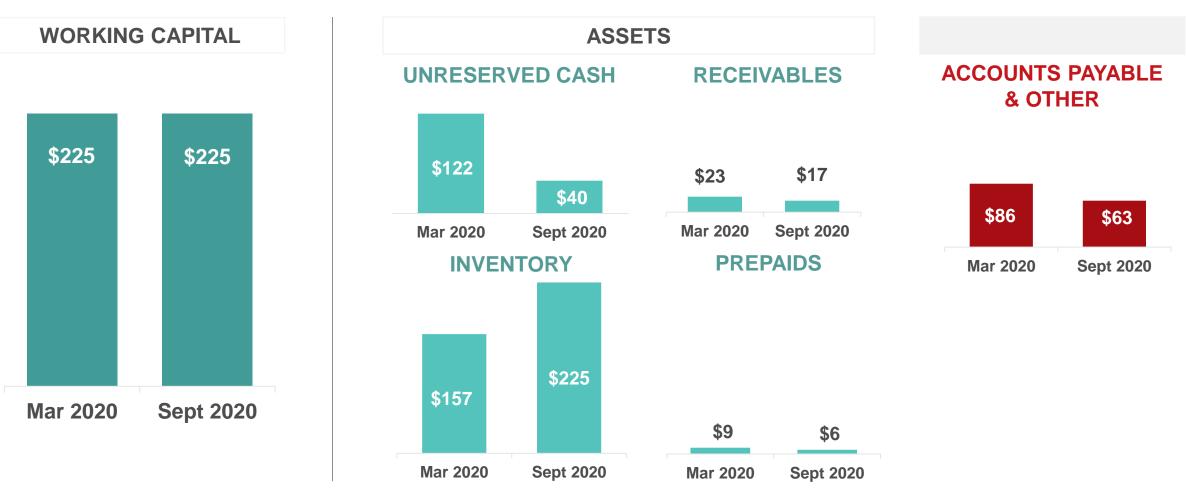
| Performance indicator   | Target     | Actual (Q1) | Actual (Q2) |
|---|------------|-------------|-------------|
| Number of fresh blood products recalled due to errors, accidents or post-donation information | ≤ 300      | 197         | 375         |
| Number of serious errors or accidents related to fresh blood products                         | 0          | 2           | 3           |
| Number of Health Canada critical observations   | 0          | 0           | 0           |
| Number of adverse transfusion reactions   | <20        | 6           | 14          |
| Number of type A non-conformance reports  | ≤ 2        | 1           | 1           |
| Number of serious stem cell events  | 0          | 0           | 0           |
| Number of recalled plasma units for fractionation   | <150       | 51          | 118         |
| Timely execution of supplier recalls  | 0          | 0           | 0           |
| Number of risk indicators meeting target  | 8 out of 8 | 7 out of 8  | 6 out of 8  |





### **Financial results**

As at Sept. 30, 2020 (charts in millions of dollars).





For the six months ended Sept 30, 2020 (charts in millions of dollars).



### TOTAL CONSOLIDATED YEAR-OVER-YEAR CHANGE IN EXPENSES



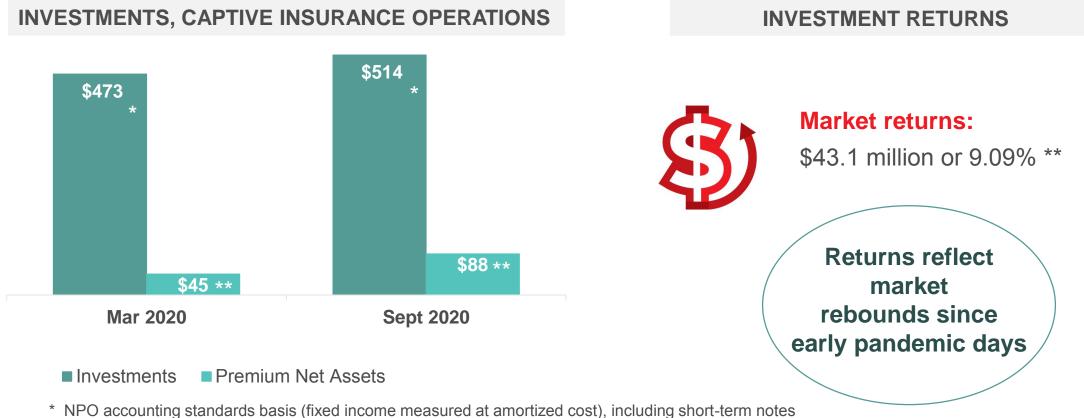
For the six months ended Sept 30, 2020 (charts in millions of dollars).

Year-over-year change in costs: plasma protein and related products





As at Sept 30, 2020 (charts in millions of dollars).



\*\* IFRS accounting standards basis (fixed income measured at fair value), net of investment mgt fees



We delivered strategic change in the first half of 2020–2021 and effectively responded to the **COVID-19 crisis** 

- In the first half of the year despite ongoing COVID-19 challenges we continue to deliver strategic changes and achievements of key performance indicators.
- Our ability to rapidly reprioritize and reallocate resources allowed us to continue delivering our products and services amidst a global crisis.
- We will continue to closely monitor demand and supply as we enter a possible second wave of pandemic.



### **Together, we are Canada's Lifeline**

