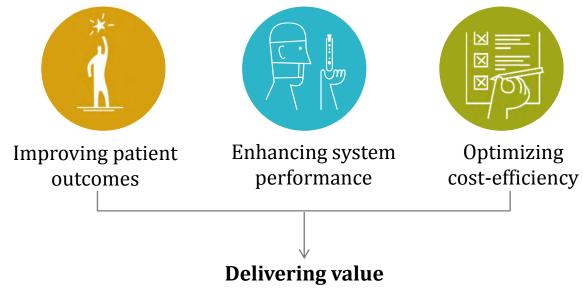


## 2017-2018: Year-End Review

**Dr. Graham Sher** Chief Executive Officer *June 27, 2018* 



### How we deliver value

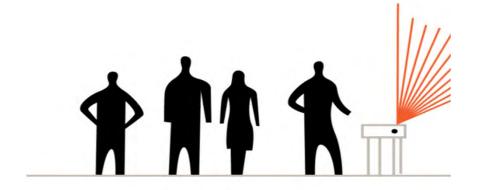


Canadian Blood Services it's in you to give

2

## **Agenda**

- Strategy and progress on key focus areas
- Financial performance
- Discussion





## 20 years of service

2.6M

18M

5M+

**Donors** 

**Units of blood** 

**Patients served** 

Transplant and transfusion recipients





#### **Key focus area**

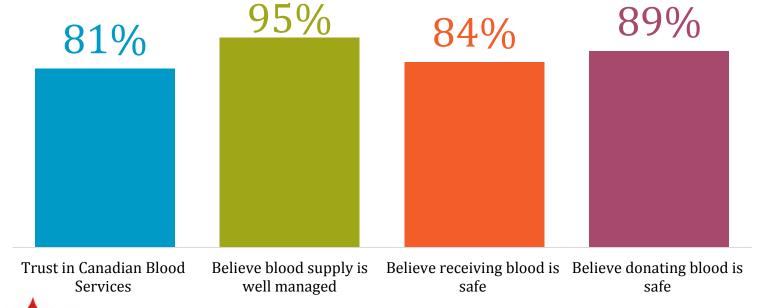
## **Earning the right to serve**





#### Key focus area: Earning the right to serve

## What do Canadians think of Canadian Blood Services?





#### Earning the right to serve

## Public involvement in our decision-making

- Strategic plan consultations
  - Valuable insights from stakeholders
  - Deepened understanding of our environment
- Men who have sex with men (MSM) and trans donors
  - Presence at LGBTQ+ community events; engagement of post-secondary groups
  - Funding MSM and trans research projects
  - New staff training module on LGBTQ+ and inclusiveness





#### Earning the right to serve

## Public involvement in our decision-making

- Request for proposals (RFP) for plasma protein products
  - Included stakeholders in decisionmaking
  - Selected products without substantially diminishing choice, but product switching was required
  - Continue to work with stakeholders on transitions to new products
  - Process review underway



## Plasma Protein Products Transition May 2018

#### NEWS

#### Transition support

Canadian Blood Services will continue to provide updates on product ordering, current national inventory levels and other relevant information in this newsletter. Please see page 2 for timelines of product availability. We continue to work closely with all internal and external stakeholders to ensure a smooth transition.

#### National inventory

Please see page 5 for a detailed inventory summary, by vial size and by Canadian Blood Services site. Page 6 is included as a reminder of the previous and future portfolio of Plasma Protein Products.

#### Ordering products

If your order exceeds a typical one-month supply, please submit it at least one week before the needed delivery date. This will allow sufficient time to ensure proper levels of product by size are available where and when needed. Order forms can be found at www.blood.ca.

#### CHANGES

#### **Timelines**

Phase-out timelines for some products have been revised. Please see page 2 for updated information.

Products that have been or are near phase-out include: Parayga 10 g vials Hizentra 2 g and 4 g vials Alprolix 500 IU vials Eloctate 250 IU vials

#### Reminders:

- If not already started, transitioning of patients to the new Plasma Protein Products may begin.
- Privigen and Gamunex will continue to be available but in reduced quantities in order to meet the target percentages as per Customer Letter 2018-15. Some patients will need to be transitioned to other products.
- A reduction in Garmunex utilization should have started however the issues to hospitals are higher than expected.
- Cuvitru when stored at 2°C to 8°C, has a shelf life of 36 months. When stored at room temperature its shelf life is reduced to 12 months from date of manufacture.

8

#### Earning the right to serve

## **National Accountability Agreement**

- We continue to negotiate the terms of a National Accountability Agreement with governments
- Several areas of agreement; some issues still require resolution, such as financial matters and roles and responsibilities
- Aim to complete negotiations by Dec. 31, 2018





Hayden, regular recipient of immune globulin



# **Ensuring Canadian security of plasma supply for immune globulin**

- Our role: Ensure safety and security of blood system in Canada on behalf of corporate members and Canadians
- Collect plasma and have it manufactured into important proteins, including immune globulin (Ig)
- Canadian sufficiency for Ig has been declining in recent years, and dependency on imported Ig has been increasing
- We have articulated the necessity of collecting significantly more source plasma from volunteer, unpaid donors



### Federal expert panel report

 Panel created to assess plasma environment in Canada and around the world

#### • Key findings:

- Demand for plasma is projected to continue to increase
- Security of plasma supply is a critical public health-care issue for Canada
- Canadian Blood Services' plan to collect more plasma is an appropriate response





### Federal expert panel report

#### Report also notes:

- **Better Ig utilization management** in Canada is needed to address demand, recognizing utilization alone will not solve sufficiency problem
- Canada's blood systems must also collect more plasma
- "Crowding out" requires ongoing oversight, monitoring and vigilance





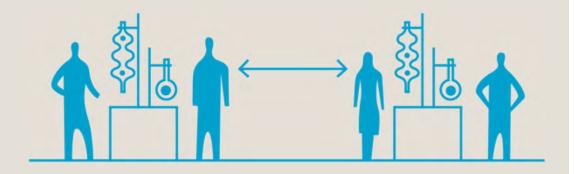
### **Next steps**

- Continuing to reinforce the principles underlying the public system and to provide the evidence necessary to inform policies and mitigate risks
- Funding requested for three proof-of-concept plasma collections sites in the 2019–2022 corporate plan; planning work underway
- Ramping up collections within existing infrastructure
- Leveraging expertise and best practices from others to ensure efficient operations



#### **Key focus area**

## Manufacture biological products







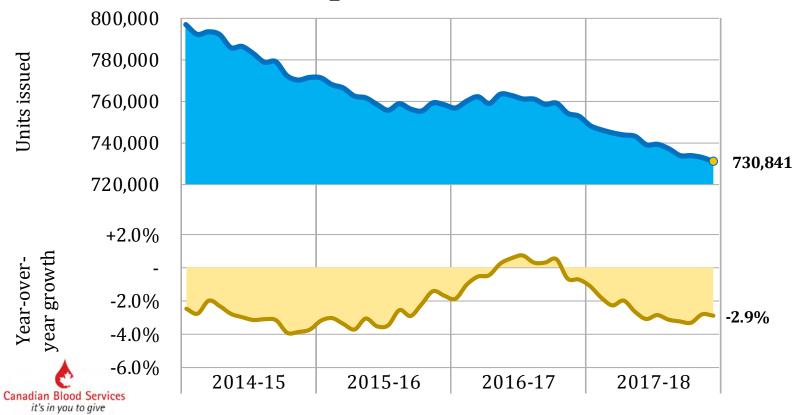
# 730,841 red blood cell units shipped

- 95% of target
- 12% decline in red blood cell demand over 9 years

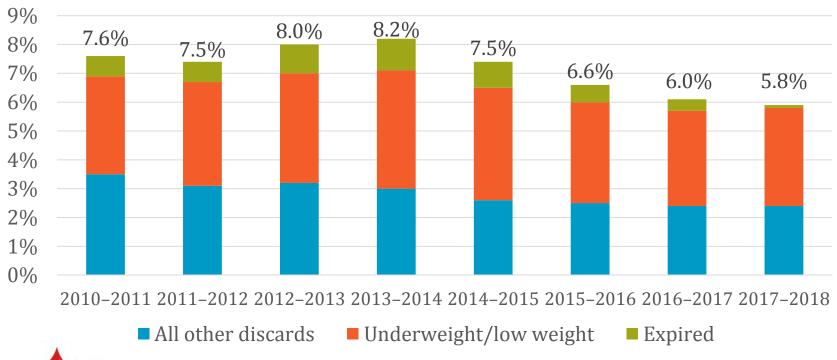
Nicholas, blood recipient



## Red blood cell shipments



### Red blood cell and whole blood discards







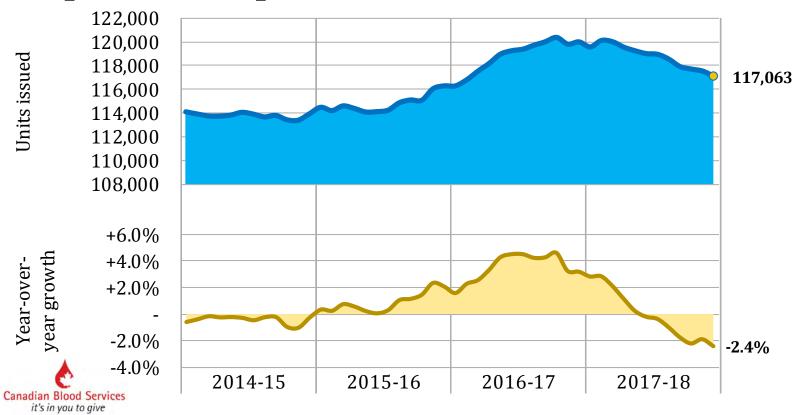
# **117,063** platelet doses shipped

- 72% pooled
- 28% apheresis
- 97% of target

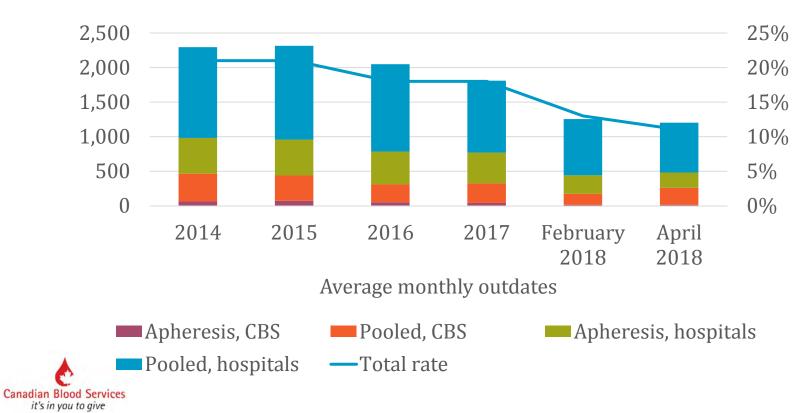
Elyse, red blood cell and platelet recipient



## **Shipments of platelet units**



## Platelet outdates and wastage



## **101,197** plasma units shipped for transfusion

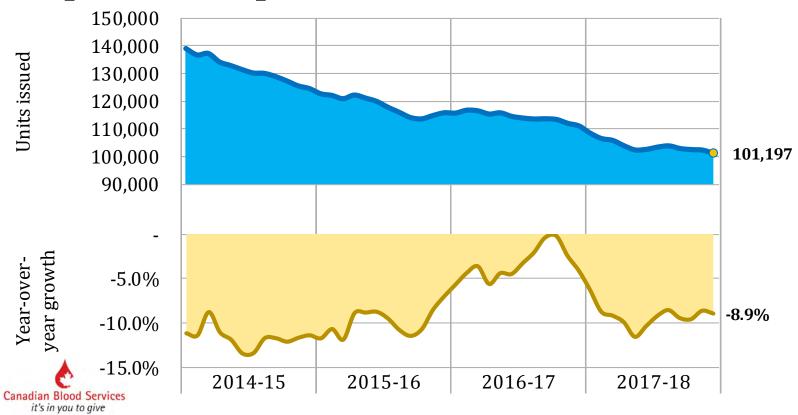
- 98% of target
- 50% decline in demand over9 years



Jill (far left), blood and plasma recipient



## Shipments of plasma units for transfusion



## **170,000** litres of plasma sent for fractionation

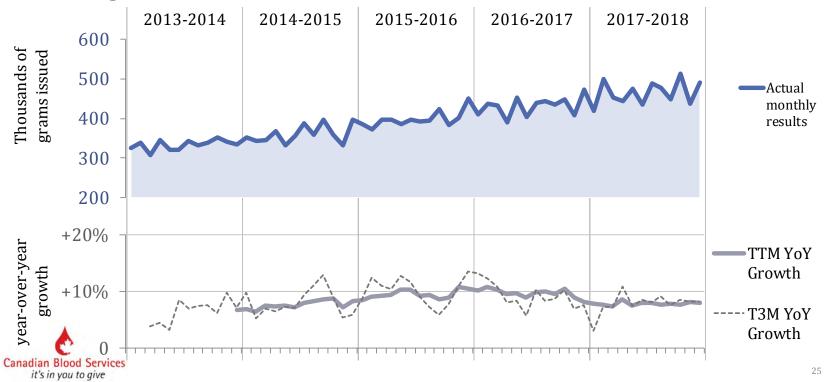
- 86% recovered plasma
- 9% cryo supernatant plasma
- 5% source plasma

Katherine, regular albumin recipient



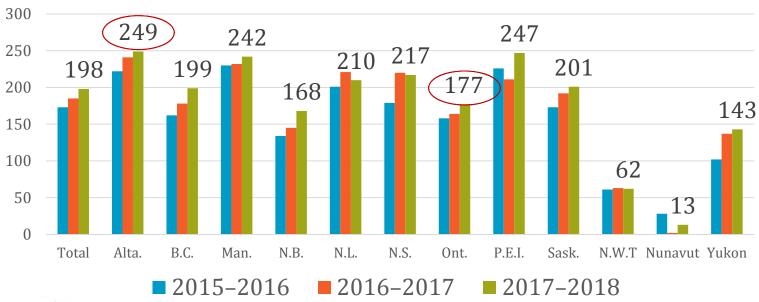
## Plasma protein products utilization growth

Immune globulin



## Plasma protein products utilization growth

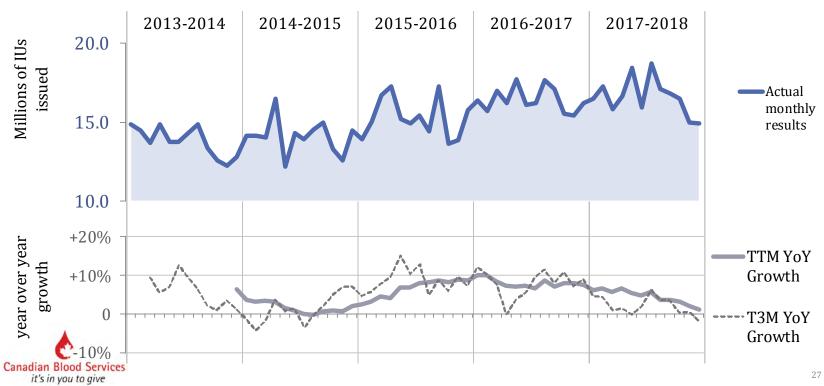
#### Immune globulin





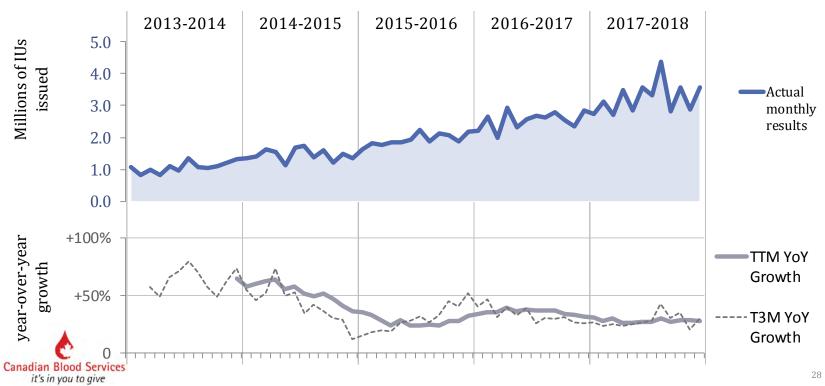
## Plasma protein products utilization growth

#### **Recombinant factor VIII**



## Plasma protein products utilization growth

#### **C1** Esterase



## Renewing our infrastructure



**Brampton, Ont.:** Added new **testing** facility





**Toronto, Ont.:** Opened **new collections site** at Yonge and Bloor in downtown Toronto

## Renewing our infrastructure





2017: Broke ground in May for new operations centre in Calgary



### Our environmental footprint

- Committed to improving our impact on the environment
- Slight increase in carbon footprint over last year due to minor operational changes
- Several energy saving and waste reduction initiatives underway — will reduce impact on environment and costs
- New Calgary building designed to achieve LEED Gold certification



#### **Key focus area**

## Provide transfusion and transplantation services





## Stem cell program

nt view of the control of the contro

Nadia, stem cell recipient



#### Provide transfusion and transplantation services

# Stem cell program: Better outcomes for patients

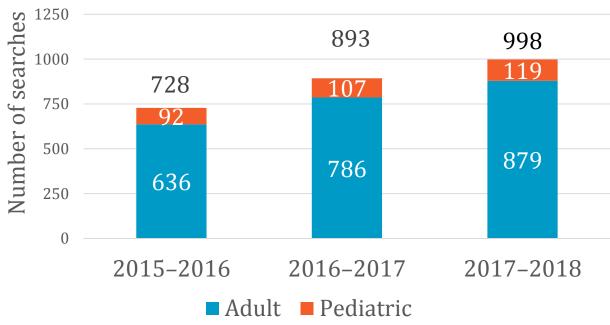
- Operate national registry of adult donors; participate in international network of donor registries
- Collect cord blood and manufacture stem cells through cord blood bank
- Provide human leukocyte antigen (HLA) typing services to ensure the best possible match





#### Provide transfusion and transplantation services

## **Adult registry**

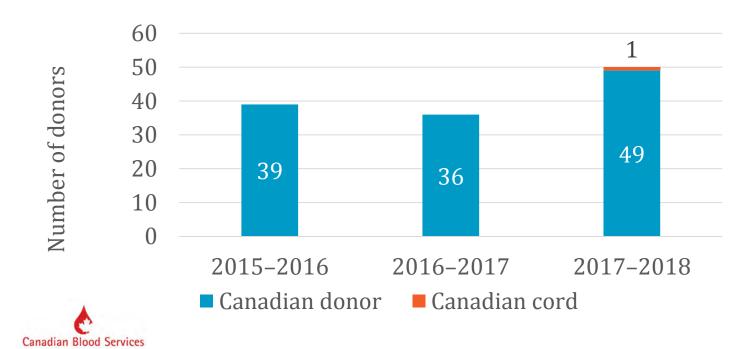




#### **Provide transfusion and transplantation services**

it's in you to give

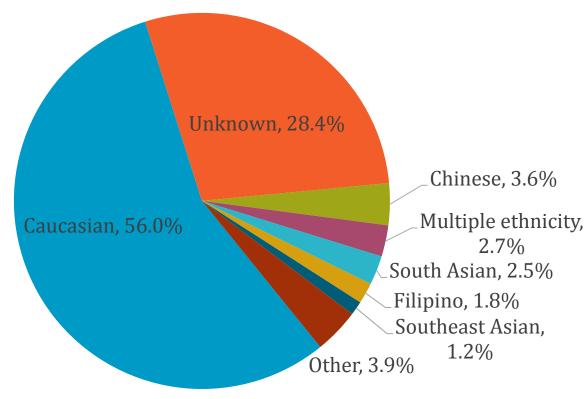
## Stem cells for Canadian patients from Canadian donors



Adult stem cell transplants: Meeting the ethnicity

challenge

Canadian patients transplanted between April 1, 2015, and March 31, 2018





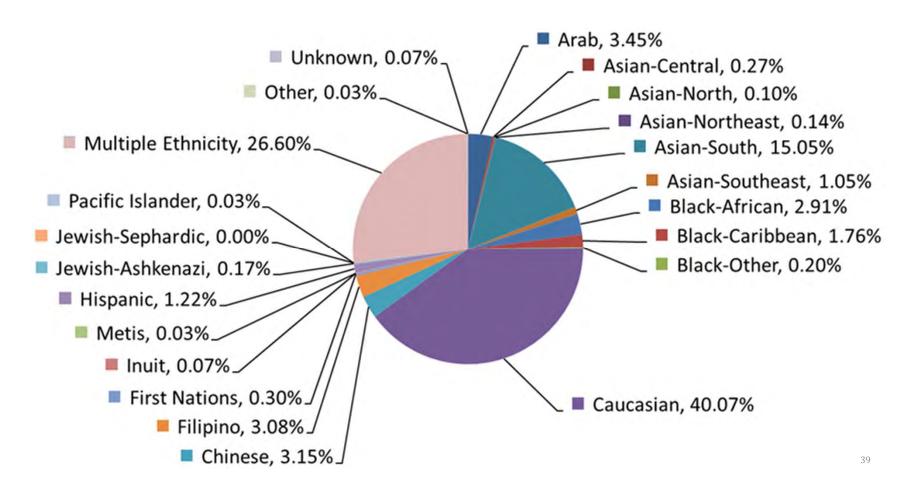
# Canadian Blood Services' Cord Blood Bank

- **2,865** cord blood units listed by end of 2017–2018 (cumulative)
- 4 units shipped in 2017–2018 (1 in Canada, 3 international)
- 13 total units shipped to date

Cara (with Jasper) and Julia (with Kirk), cord blood donors







- Cord blood bank is one of the highest quality banks in the world
- Exceeded all quality indicators

Cord Blood Inventory Quality Index (selected indicators)	Target	Actual 2017- 2018
Average post-production total nucleated cell (TNC) count (x109) Caucasian	≥1.39	1.50
Average post-production TNC count (x109) non-Caucasian	≥1.28	1.32
Average post-production CD34+ cell count (x109) Caucasian	≥5.80	6.74
Average post-production CD34+ cell count (x109) non-Caucasian	≥5.02	5.45











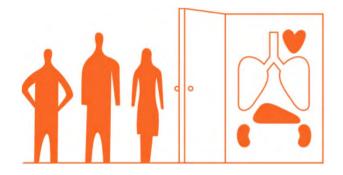
Organ and tissue donation and transplantation

Crystal, heart recipient



# Organ donation and transplantation

- National leadership role in all provinces and territories since 2008
  - Canadian Transplant Registry
  - Leading practices and professional education
  - Public awareness
  - System reporting and analytics





# Interprovincial organ sharing via patient registries

1,000+

Kidney transplants enabled by the Kidney Paired Donation program and the Highly Sensitized Patient Kidney program (cumulative since 2009)

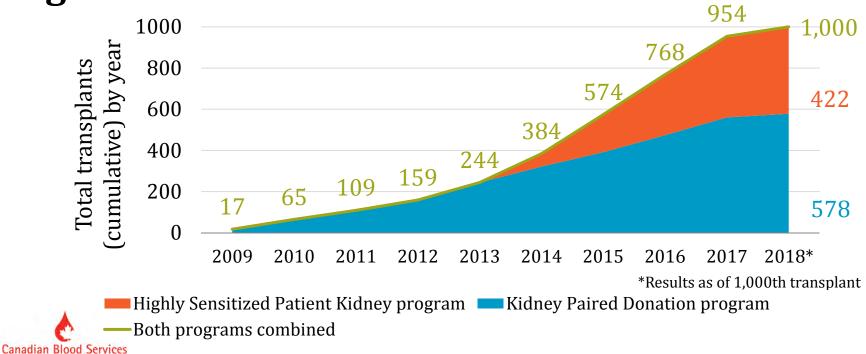


Gurjeet with her husband and kidney donor Shak Photo courtesy of B.C. Transplant; data as of April 2018



it's in you to give

# Interprovincial organ sharing via patient registries

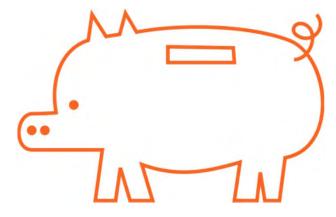


# **Kidney transplants**

>\$16M

Approximate cumulative dialysis costs avoided in 2017–2018 by the health-care system





# **Leading practices**

**Vital resources** for OTDT clinicians, practitioners:

- International guidelines in determination of death
- End-of-life conversations with potential donor families
- Canadian guidelines for controlled pediatric donation after circulatory determination of death
- Bioburden reduction and control in tissue banking
- Leading practices workshops in eye and tissue banking



Canadian Blood Services

it's in you to give

# Improved organ transplant performance



**DPMP:** Donation performance

 $per\ million\ population$ 

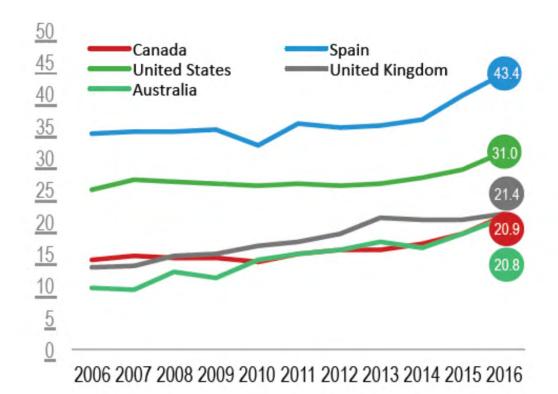
**NDD:** Neurological determination of death

**DCD:** Donation after circulatory

determination of death

2016 System Progress Report Update

# Improved organ transplant performance





2016 System Progress Report Update

# Health Canada program evaluation

- Organ and tissue donation and transplantation (OTDT) program is:
  - Relevant
  - Aligned with government priorities and federal roles
  - Advancing OTDT stakeholder objectives
- Some overlap with other stakeholders' activities
- Program's performance has been impacted by operational challenges
- Continued effort needed to improve awareness and uptake of programs and services across all jurisdictions

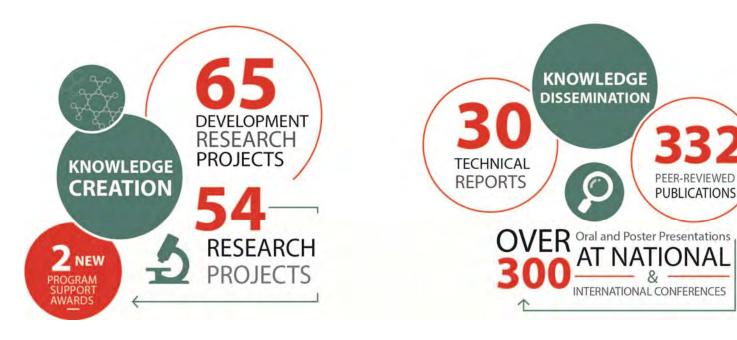


# Research, education and guidance





# **Knowledge creation, dissemination**





# Research program evaluation and funding renewal

- Blood R&D program is:
  - Relevant
  - Making progress toward intended outcomes
  - Operating efficiently
- Funding secured for five years





## **Key focus area**

# Transform how we attract, interact with and retain donors



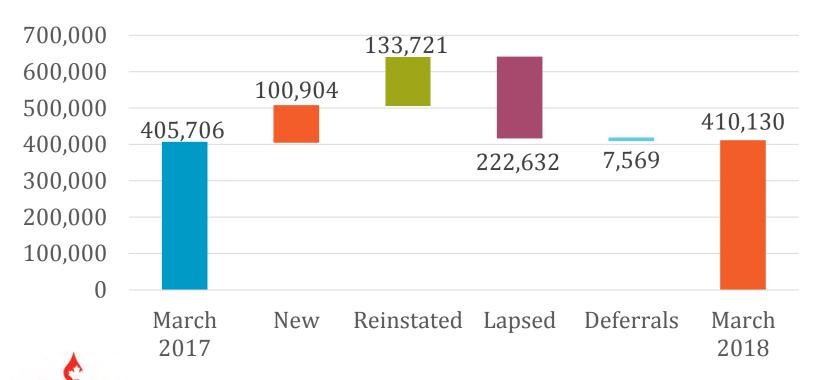


#### Transform how we attract, interact with and retain donors

# **Recruiting new donors**

Canadian Blood Services

it's in you to give

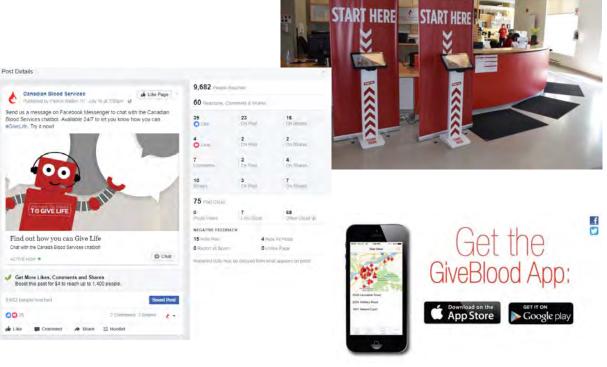


#### Transform how we attract, interact with and retain donors

# **Connecting with donors**

• Donor concierge

- App
- Chatbot

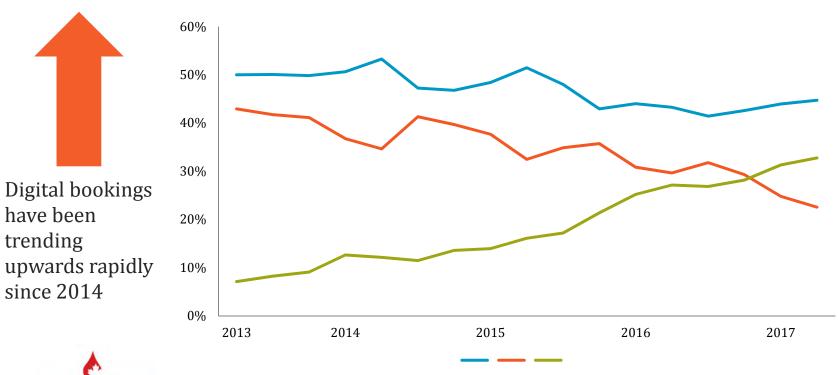


Welcome!



#### Transform how we attract, interact with and retain donors

# **Appointments booked by channel FY 2013–2017**





Missing Type campaign and National Blood Donor Week



RIC H im gine. ch nge.

INTERNATIONAL

#MISSINGTYPE.CA









# Deliver our products and services more efficiently

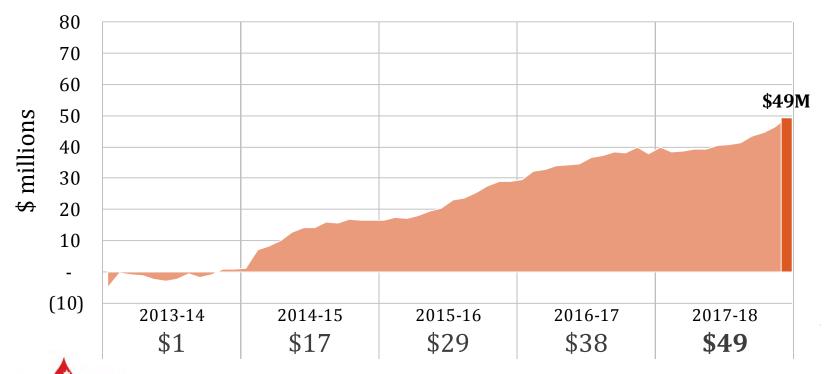




## **Deliver our products and services more efficiently**

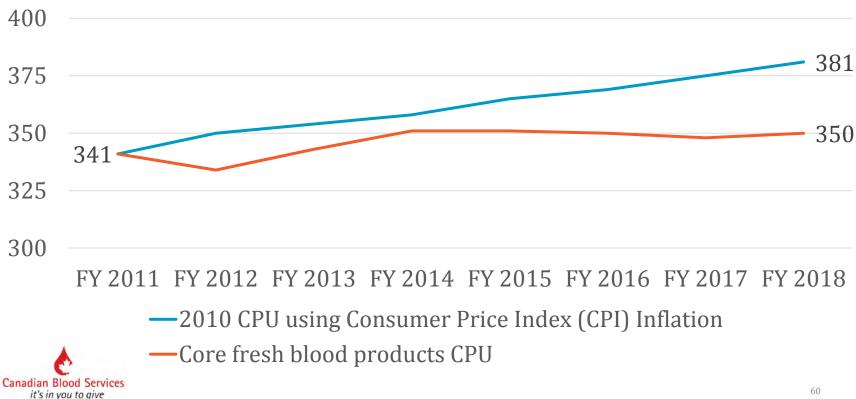
# Efficiencies realized

Canadian Blood Services it's in you to give



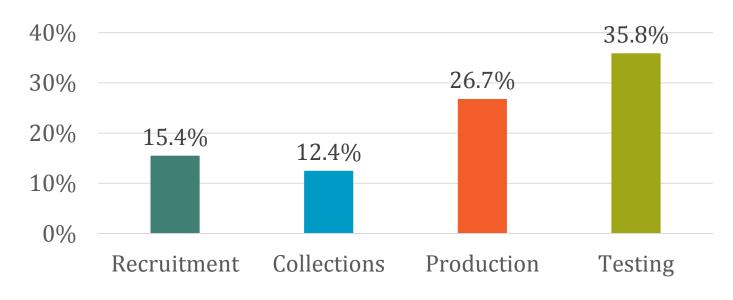
#### Deliver our products and services more efficiently

# Core fresh blood products cost per unit



#### **Deliver our products and services efficiently**

# Productivity improvements 2014–2015 to 2017–2018





Per cent Improvement

#### **Deliver our products and services efficiently**

it's in you to give

# Fresh blood products productivity targets







# Strengthening our Quality Management System

- Strengthening QMS to rival best in biologics industry
- Link: Strengthening Our Quality Management System and Culture program



- Linking our manufacturing, service delivery and QMS processes together to drive quality and customer satisfaction
- Linking our employees and teams together for a common purpose
- **Linking** our quality management processes together as a system



# Our new quality policy

safeguard	Safety above all else If you doubt it, shout it
engage	Each patient is your patient To share is to care
improve	Good enough is not enough The only constant is change



# **Quality index**

Quality indicator	Target	Actual
Fresh blood products recalled due to E/As and PDIs	< 1,600	1,049
Extreme E/As related to fresh blood products	0	0
Adverse transfusion events	< 80	56
Health Canada critical observations	0	0
Type A errors (diagnostic services)	0	4
Serious events (stem cells)	0	0
Recalled plasma units sent for fractionation	< 600	369
Timely execution of plasma protein products recall	Same day	All but one
Fresh blood products recalled due to E/As and PDIs	< 1,600	1,049

# **Continuous improvements**

- Established dedicated team of corrective and preventive action (CAPA) specialists
- 86% decrease in the number of moderate and high risk quality events compared to the previous fiscal year





## **Key focus area**

A high-commitment, high-performance culture





# **Labour relations**

- Successful ratification of a new collective agreement with OPSEUsupport
- Legislation passed in Ontario to have Canadian Blood Services declared an essential service
  - Significant achievement years in the making; removed single largest risk to continuity of our work
  - Also named essential service in B.C., Alberta and Manitoba



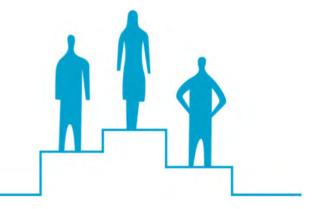
# Occupational health and safety

- Safety program complies with Canadian safety standards
- Strong safety rating of **91%** (provincial audit results)
- Workers' compensation costs \$50,887 lower than previous fiscal year



# **Awards**

- Annual charities report card:
   Canadian Blood Services named a charity of the year
- Omond Solandt Award: Canadian Blood Services is 2018 recipient

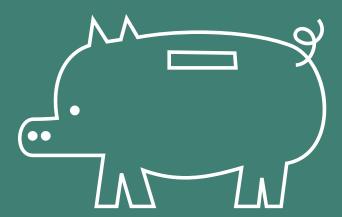




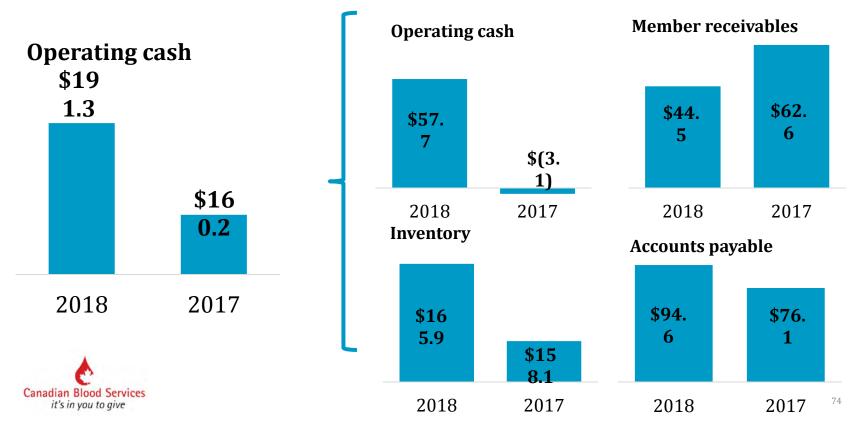
# Diversity and inclusion

- Completed inclusivity assessment with the Canadian Centre for Diversity and Inclusion
- Diversity and inclusion resources provided to employees on internal portal
- Launched diversity and inclusion education for all employees



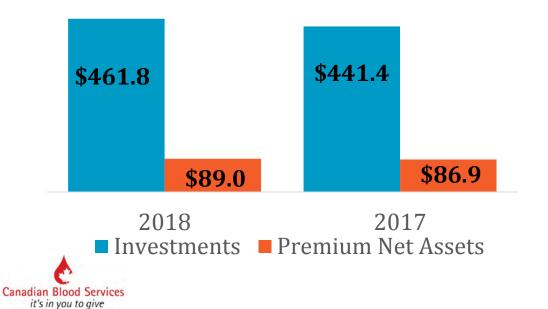


# Key financial results: Working capital



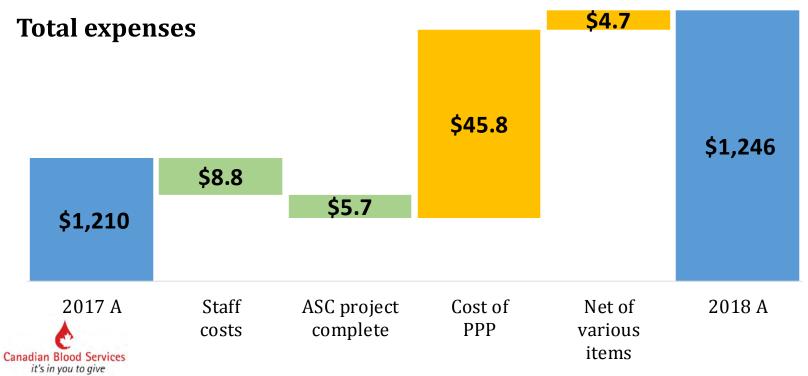
# **Key financial results: Captive insurance** operations

## **Captive investments**





# **Key financial results: Total expenditures**



# Discussion

