

Use of a Web based application for the redistribution of platelets

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April 12, 2013



IN THE BEGINNING...

- ❑ Discussions began with hospitals, CBS and ORBCoN in the fall of 2010.
 - ❑ Hospitals asked to participate in the pilot of a web based inventory sharing application to improve the utilization of platelets, and to provide an efficient way for each institution to see if there were platelets available at neighbouring hospitals without the “cold calls”.
 - ❑ Application would be used differently between the 2 LHIN groups.
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TORONTO LHIN PARTICIPANTS

- UHN-Toronto General, Toronto Western, Princess Margaret
 - Mt. Sinai
 - St. Michaels
 - Sunnybrook
 - Toronto East General
 - St. Josephs Hospital
 - Hospital for Sick Children
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CE LHIN PARTICIPANTS

- ❑ Peterborough Regional Health Centre
 - ❑ Lakeridge Health Network – Oshawa, Bowmanville and Port Perry Sites
 - ❑ Rouge Valley Health System – Centenary and Ajax-Pickering Campuses
 - ❑ The Scarborough Hospital – General and Birchmount Campuses
 - ❑ Ross Memorial Hospital, Lindsay
 - ❑ Campbellford Memorial Hospital, Trent Hills
 - ❑ Northumberland Hills Hospital, Cobourg
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GOALS

- ❑ Toronto LHIN: Reduce wastage of platelets by transferring those close to outdate to hospitals that could use them.
 - ❑ CELHIN: Improve TAT from platelet order to transfusion by decreasing travel time to hospitals that do not stock platelets.
 - ❑ Reduce travel costs.
 - ❑ ORBCoN/CBS: Investigate the possibility of an electronic inventory sharing program that could be used across the province in times of blood shortages.
 - ❑ Improve platelet utilization.
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PRE-ANALYTICAL

- Memorandum of Understanding
 - Stakeholder input into requirements of application
 - Validation of application
 - SOPs written
 - Pre-pilot data collection
 - Training webinars
 - “GO!!” June 1, 2011
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THE APPLICATION

- ❑ Each Transfusion Service enters platelet products available for transfer.
 - ❑ Each product identified by blood type, attributes, expiry date and if required by unit number and titre.
 - ❑ All sites in the respective LHIN can see available products and current site of “ownership”.
 - ❑ After product transferred or transfused, application is updated to reflect final disposition.
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Platelet Inventory Exchange Web Application

[contact](#)
[log out](#)





Manage My Inventory

[START ANEW](#)
[UPDATE INVENTORY](#)

Looking for Inventory

[VIEW ALL](#)
[NOTIFY ME](#)




Inventory Dashboard

O 		Mine	Others	A 		Mine	Others
	POS	1	4		NEG	2	
					POS		
					NEG	1	2
AB 		Mine	Others	B 		Mine	Others
	POS	1	2		NEG	2	
					POS		
					NEG		2

Platelet Inventory Exchange Web Application

Start Anew

Qualifying attributes for expiring platelets.

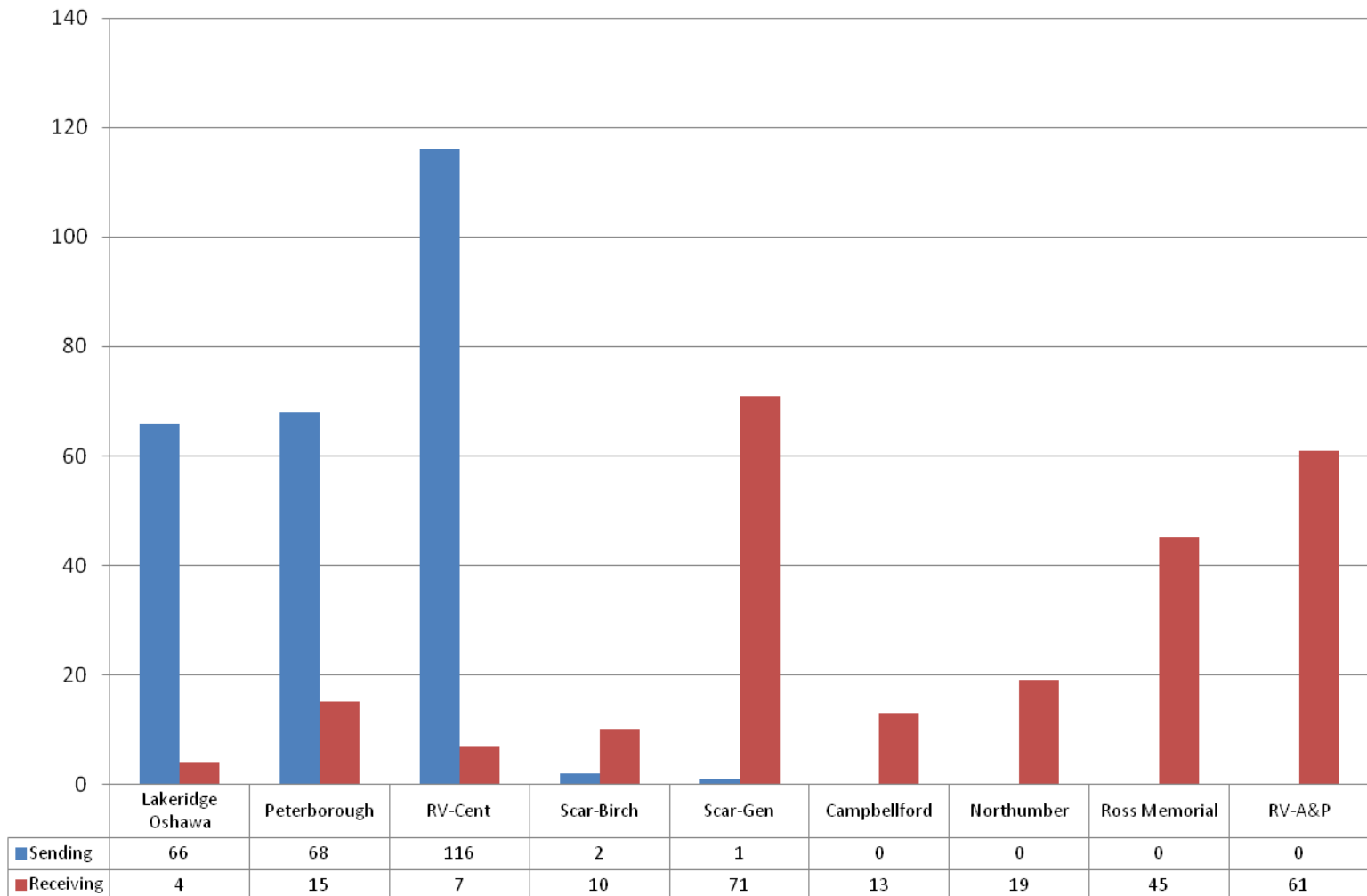
Blood Type		Expiry Date		
O +	<input type="checkbox"/> CMV-	<input type="checkbox"/> Irradiated	31-JUL-2010	
	<input checked="" type="checkbox"/> Apheresis	<input type="checkbox"/> Buffycoat		
O +	<input type="checkbox"/> CMV-	<input type="checkbox"/> Irradiated	31-JUL-2010	
	<input type="checkbox"/> Apheresis	<input type="checkbox"/> Buffycoat		
B -	<input checked="" type="checkbox"/> CMV-	<input type="checkbox"/> Irradiated	30-JUL-2010	
	<input type="checkbox"/> Apheresis	<input type="checkbox"/> Buffycoat		

back

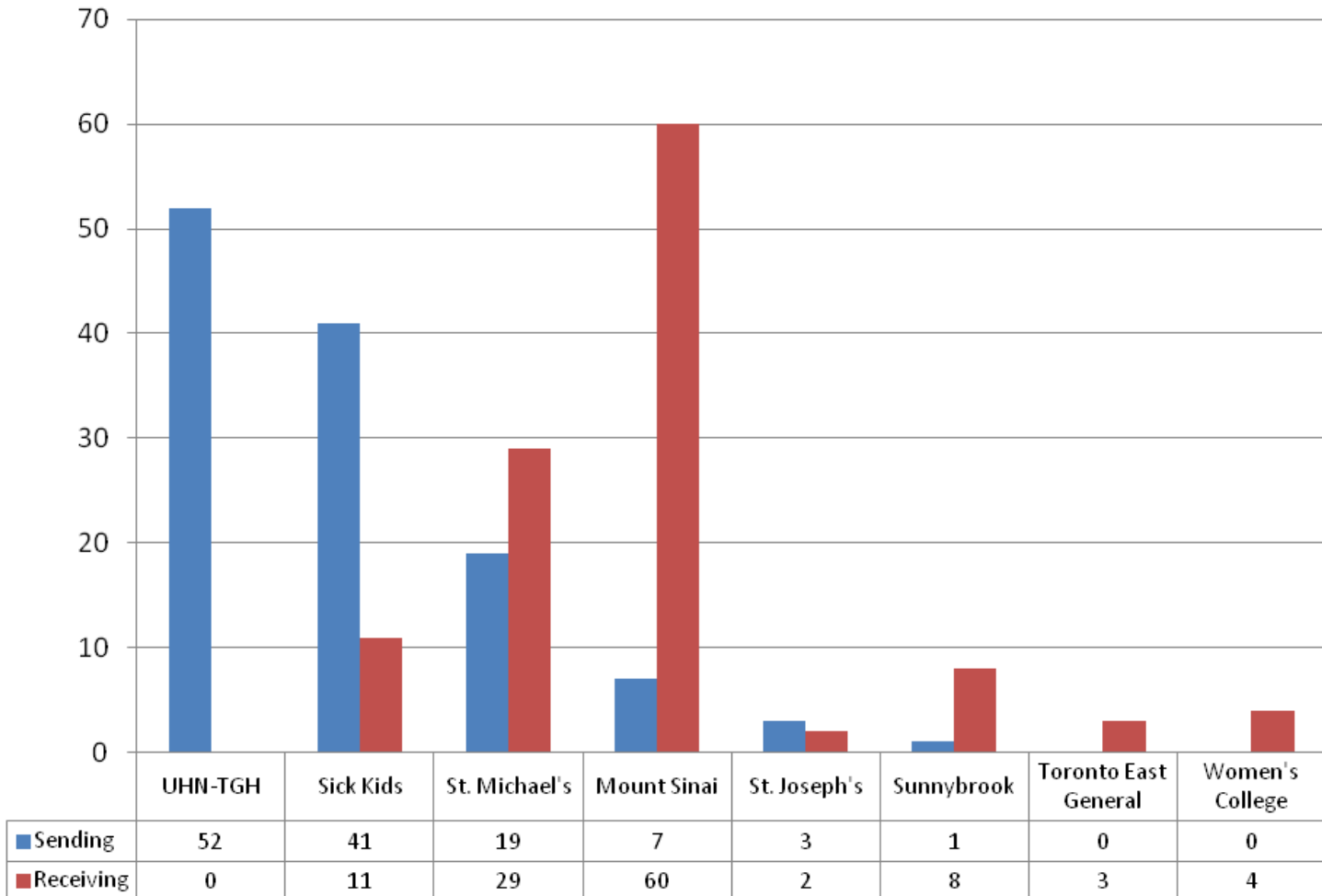
submit

Central East LHIN Platelet Transfers

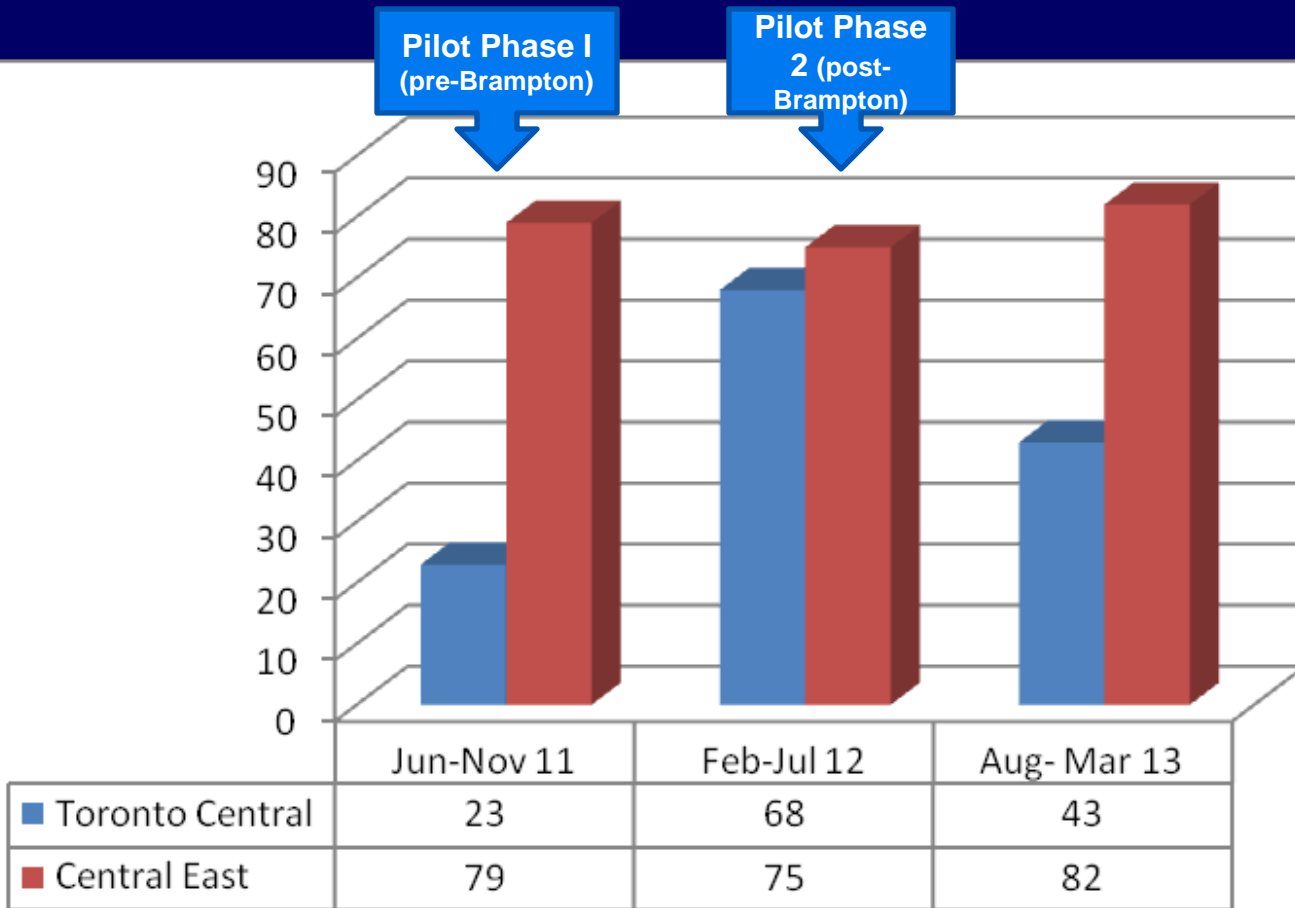
(Jun 2011-Mar 2013)



Toronto Central LHIN Platelet Transfers (Jun 2011-Mar 2013)



Platelet Transfers



FINANCIAL BENEFIT

Central East LHIN Platelet Transfers by Site (79)

Sending site	Receiving site	Total Transferred	Taxi/Courier Costs from sending site	Taxi/Courier Costs from CBS (67 College)
Peterborough (21)	Campbellford	3	\$75/run	\$250/run
	Ross Memorial	13	\$55/run	\$125/run
	Northumberland	4	\$50/run	\$150/run
	Rouge Valley- A&P	1		\$35/run
Lakeridge-Oshawa (18)	Peterborough	6		\$46/run
	Scarborough General	1	\$50/run	\$25/run
	Rouge Valley- A&P	3	\$25/run	\$35/run
	Scarborough Birchmount	1	\$50/run	
	Rouge Valley- Centenary	1	\$25/run	\$28/run
	Ross Memorial	4	\$75/run	\$125/run
	Bowmanville	2		
Rouge Valley-Centenary (40)	Rouge Valley- A&P	13	\$25/run	\$35/run
	Scarborough General	21	\$15/run	\$26/run
	Scarborough Birchmount	3	\$19/run	
	Lakeridge-Oshawa	3		\$28/run
Total		79		



APPLICATION FEEDBACK

- All sites found the web app user friendly
 - Additional workload minimal
 - Some sites found it frustrating to look into portal and not see any platelets available
 - All sites agreed it would be beneficial to continue collecting data in order keep the momentum of the project going.
 - Most sites agreed that they would continue to use after the CBS move to Brampton as distance/time of delivery may be an issue for some sites
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