KNOWLEDGE INFUSION: FOCUS ON AABB 2016

Permission to Use: Please note that the presenter has agreed to make their presentation available. However, should you want to use some of the data or slides for your own presentations, we request that you contact the presenter for permission to use.

Truly innovative: non-destructive quality assessment of platelet concentrates in mini bags

Prepared by Canadian Blood Services Knowledge Mobilization Team with special thanks to Peter Schubert

Published February 2017

Centre for Innovation

Welcome to ......
PRESENTATION LEARNING OBJECTIVES:

- By the end of the session, participants will be able to describe non-destructive quality assessment of platelets and its importance to Canadian Blood Services.
patients trust that the products we provide will be safe and effective throughout their shelf life.

we routinely check product quality at expiry as part of our QC program.

but testing at expiry means that products selected for QC end up...

what if?

• you could take a small sample from a unit
• store that small sample to expiry
• and the quality attributes of that small sample were representative of the unit

then

you could return the sampled unit to inventory, and QC becomes non-destructive!
start with an idea...

Platelet quality is dependent on the shape/size and fill volume of the segment.

see what might be feasible...

→ Quality in mini-bags is dependent on an air bubble.
→ P17 with 12 mL fill volume and 2 mL air bubble demonstrated best configuration.
make it real...

...next step is to procure commercial mini-bag P17 produced to our design and use it in the QC world under blood banking conditions... stay tuned!

...to pathogen-reduced PCs revealed good results indicating that mini-bag P17 are appropriate to monitor units with reduced quality.

...large study at netCAD demonstrated successful application of in-house produced mini-bag P17 design for both pooled and apheresis platelets.

Innovation takes a team

Zhongming Chen

Brankica (Brana) Culibrk

netCAD lab members:
Janet McManus
Emmanuel Zurbano
Joanne Ross
Shadi Sarshad
Tatiana Closas
Judy Fung
Riki Roberts
Tamiko Stewart

Devine Lab members

Ken McTaggart
Cherie Mastronardi
KnowledgeInfusion
SPOTLIGHT ON AABB 2016

thank you!

Centre for Innovation