

# MLAs in Transfusion Medicine!?

#### **Rethinking HRLMP's TM labs**

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#### **Learning Objectives**

At the end of this session, you will be able to:

- Describe the duties of MLAs in a hospital Transfusion Medicine laboratory
- Discuss the challenges in implementing MLAs
- Describe the future of MLAs in Transfusion Medicine

#### Hamilton Regional Laboratory Medicine Program



The HRLMP has more than 700 staff members including 50 medical and scientific staff with cross appointments at McMaster University. With laboratories located at each acute care site in Hamilton, we are one of the largest integrated laboratory service programs in Canada.









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#### 2 Corporations 5 Transfusion Medicine Labs



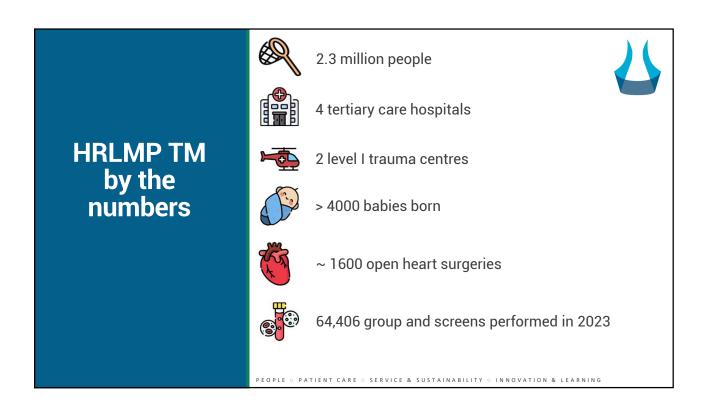


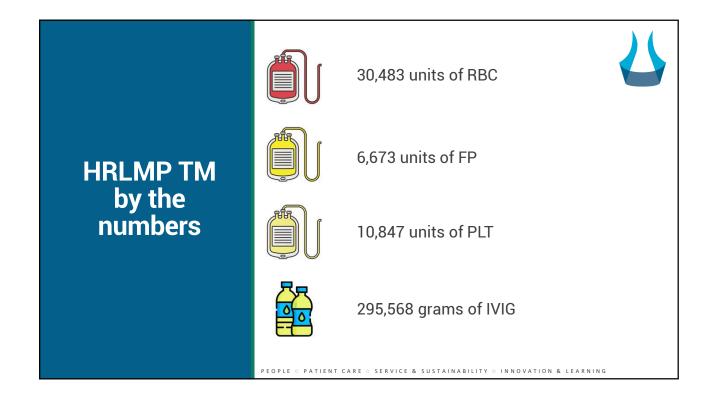


Hamilton
General
Hospital
Cancer Centre

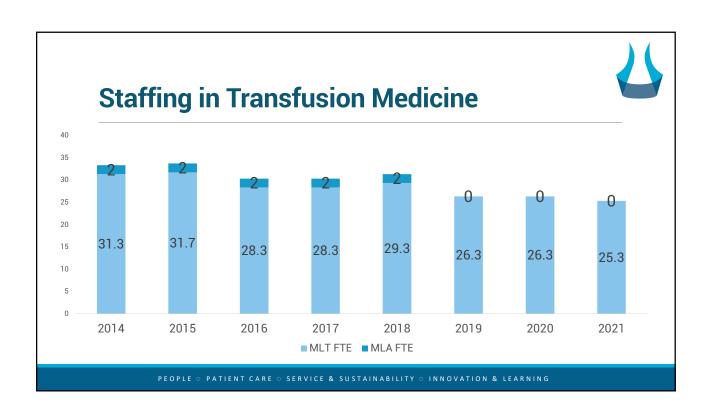
McMaster Children's Hospital West Lincoln Memorial Hospital

St. Joseph's
Healthcare Hamilton
Charlton Campus

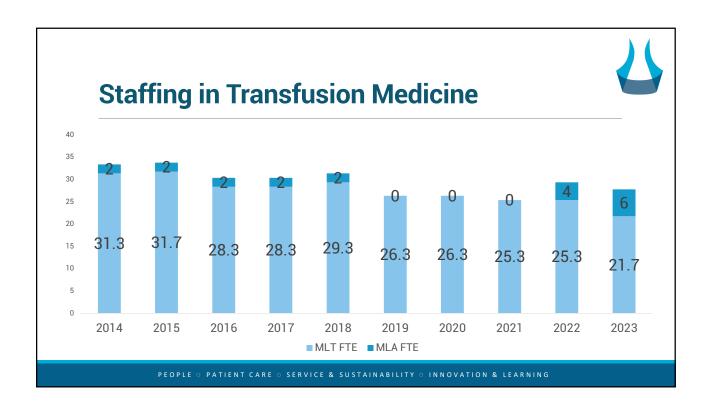












#### Juravinski Hospital Transfusion Medicine Lab



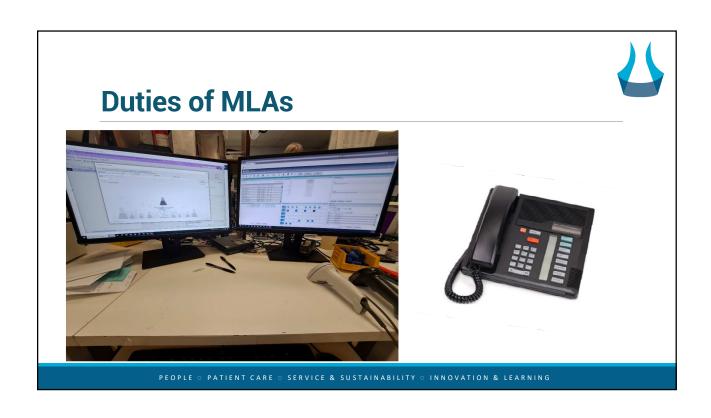


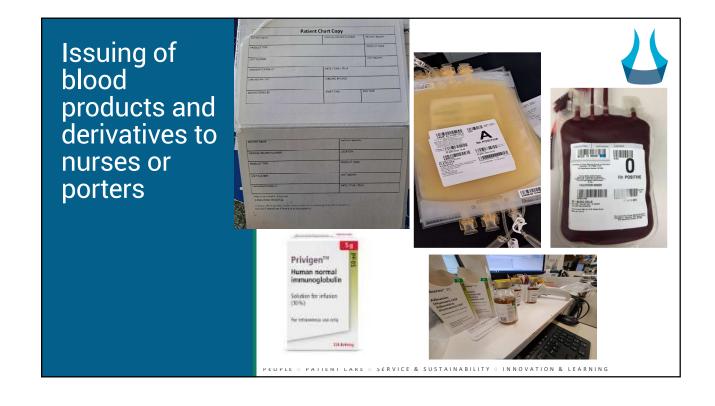
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#### McMaster Children's Hospital Transfusion Medicine Lab

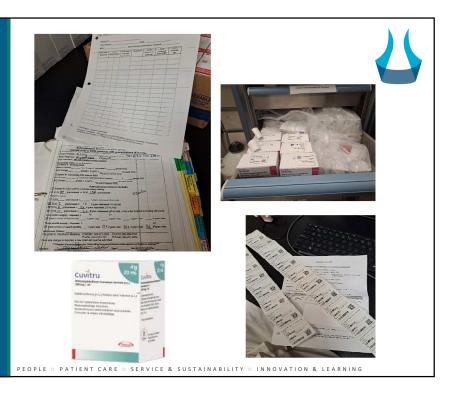




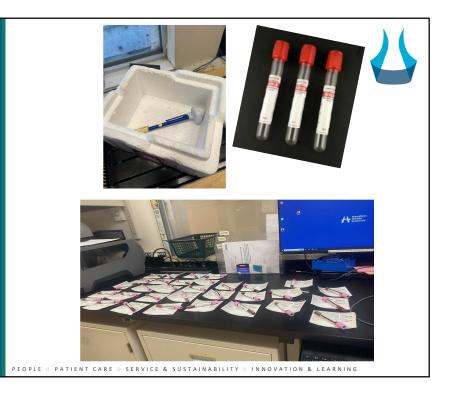




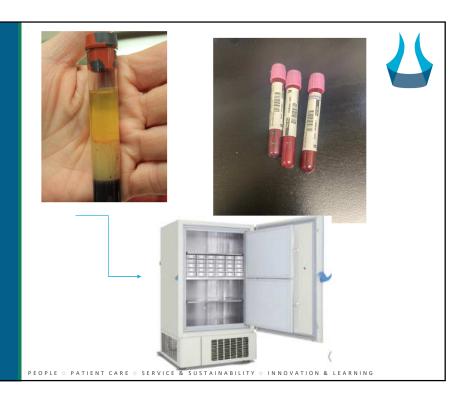
Issuing of factor products, SCIG, C1 Esterase Inhibitor, Alpha-1-proteinase-inhibitor to homecare patients



Receiving specimens
& helping in the collection of cold agglutinin testing



Receiving & processing send out tests

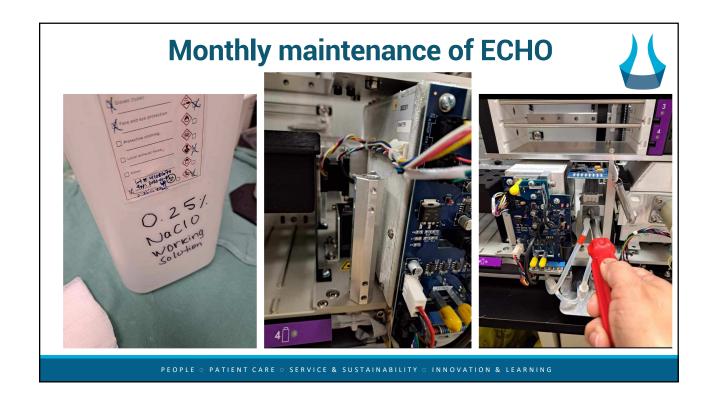














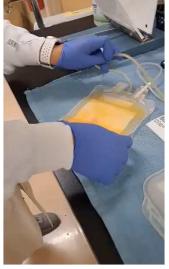




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## Preparing Volume Reduced Platelets







#### Preparing slides for Kleihauer-Betke

used for the detection of fetal cells in prenatal and postnatal venous blood samples

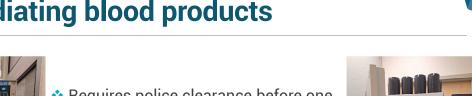






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#### **Irradiating blood products**





- \* Requires police clearance before one can enter the irradiation room
- \* Requires additional training in using the gamma radiation













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#### Hemobank

- Deal with outstanding alerts
- Change temperature chart weekly
- Monitor stock levels
- Resolve any units at unusable status
- Review expiring units & remove from stock as needed and return to TM



## Validation of thermometers, coolers, charts recorders



- Coolers are validated yearly at a temperature between 1-6°C
- Thermometers for fridges, freezers, water baths, plasma thawers are validated every year at a specific temperature
- Charts are validated using reference thermometer at 3 different temperatures



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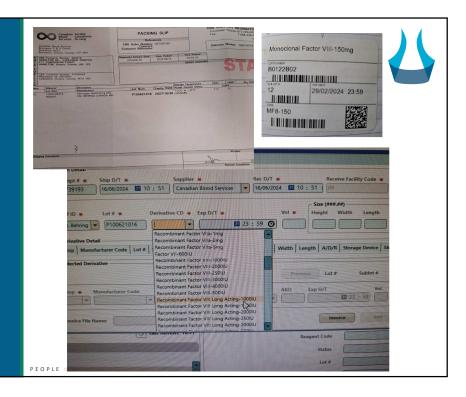
# Sending blood, derivatives & reagents to other hospitals. \*\*\*Translutive Western Frankling Fran

### Weekly count of products:

- ✓ Short dated
- ✓ "IN" status
- √ "XM" status
- ✓ Missing
- ✓ Wrongly inventoried

**Blood products** 

Fractionated products



#### Challenges



- Training
- Out of scope questions from the ward when they call TM
- Skills attention to details / inquisitive / technical/ computer savvy
- No clearly defined expectations
- No clearly defined duties



#### **Future of MLAs in Transfusion Medicine**

- Do we keep the same number of MLAs?
- Do we consider advance practice options?
- Do we introduce MLAs working night shifts?

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#### References

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Medical Laboratory Professionals' Association of Ontario. (May 2016). Certified Medical Laboratory Assistant / Technician Competency Guidelines. Medical Laboratory Professionals' Association of Ontario. https://www.mlpao.org/\_files/ugd/b8cf07\_f53ca89be1ac4ad39541cd4d04107068 .pdf

MLA certification. (n.d.). Medical Laboratory Professionals' Association of Ontario. https://www.mlpao.org/mlat