

Objectives

- Compare and contrast in-person learning vs. virtual learning
- Discuss options taken to provide virtual learning to customers
- Discuss plans for the future of education



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Pre-COVID-19 learning

 Prior to COVID-19, Community Blood Center (CBC) held in person learning for CLS students, pathology residents and hosted a yearly Experience in Blood Banking (EBB) educational program for all CBC customers



Pre-COVID-19 Learning

- CLS students (3 programs) and pathology residents (2 programs) spent 3-7 days in the IRL. SBB students spent 1 week in the IRL
- Time was spent providing supplementary education on ABO discrepancies, titrations, elutions and adsorptions, etc.



Pre-COVID-19 learning

- Experience in Blood Banking (EBB)
 - Two day sessions for basic blood banking
 - One day session for advanced blood banking



















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Pre-COVID-19 learning

- Experience in Blood Banking (EBB)
 Challenges:
 - Space limitations: 50 guests
 - Some interested guest were turned away
 - · Had to create a second session to meet demand
 - Some interested guests unable to attend















Pre-COVID-19 learning

- Experience in Blood Banking (EBB)
 Challenges:
 - There was a lot required to prepare for visitors
 - Room setup
 - Parking
 - CBC provided morning coffee, snacks and lunches to attendees for each day



Community Blood Center

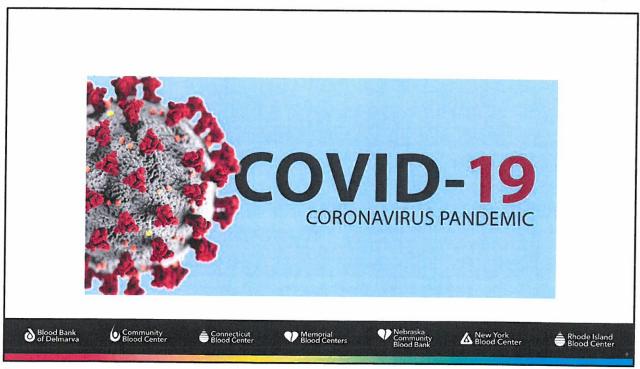






New York Blood Center





Changes to Education

All in-person learning was immediately cancelled.









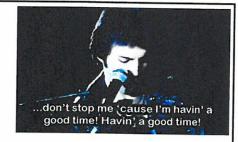




A New York Blood Center Rhode Island Blood Center

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Changes to Education



The big question: How do we continue to provide education?

CBC did not want to stop providing education















Changes to Education

 Rapid measures were taken to transition EBB to a virtual format.

















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Virtual EBB



Initial Questions:

- · What platform to use?
 - Needed something that was easy for presenters as well as attendees
 - Spent countless hours scouring different platforms before deciding









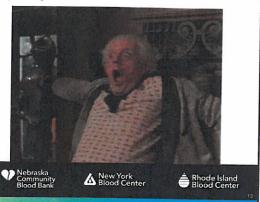






Virtual EBB

- Advanced EBB was set for August 2020
 - This gave us four months to prepare



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Virtual EBB

- EBB 101 typically scheduled for February the following year (2021)
 - If EBB: Advanced virtual was successful, this would set a blueprint for EBB 101















Virtual EBB

- CBC decided to pre-record the lectures while providing a live Q&A (Advanced & 101)
 - This was to meet the requirements of P.A.C.E





















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Virtual Experience in Blood Banking

- Virtual meeting was cost effective
 - Lunches, snacks and other expenses were no longer needed
 - Platform was relatively cheap compared to live sessions















Virtual Experience in Blood Banking

- · Also allowed for more attendees
 - Facilities that normally weren't able to send techs were able with the virtual platform

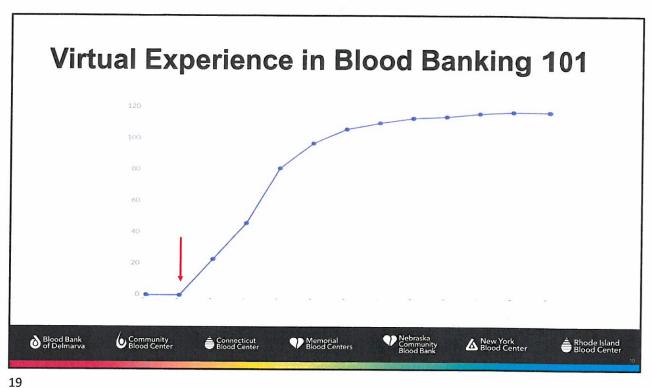


Virtual Experience in Blood Banking

- · Less stress for staff presenting
 - Staff member had to be available for live Q&A
 - Prerecording allowed for staff to pick days
- Less stress on all laboratory staff



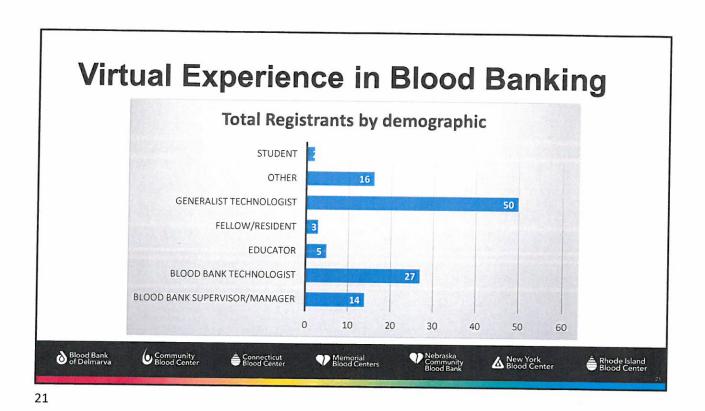
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Virtual Experience in Blood Banking 101

- 117 total registrants
- 49 facilities





Challenges of Virtual Learning – CLS & Pathology Visitors

- Creating educational modules
 - What programs to use?
 - How to recreate in person environment?



Challenges of Virtual Learning – CLS & Pathology Visitors

- How to keep students engaged?
 - Want to create modules that were interactive
 - Want to incorporate videos of processes

















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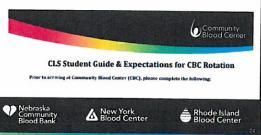
Challenges of Virtual Learning – CLS & Pathology Visitors

- How to ensure students would participate in the virtual learning?
 - Continued the use of post learning assessment

Memorial Blood Centers

- Created Expectations Guide

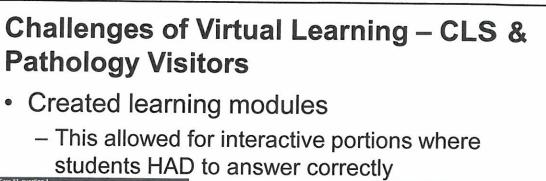
Connecticut
Blood Center

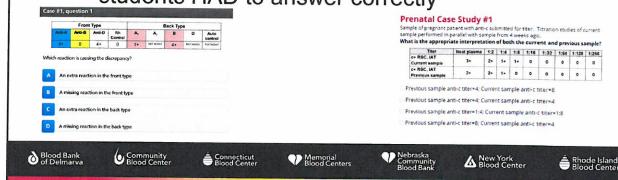


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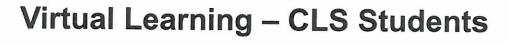
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 Using the education webpage, created videos for students to learn and see processes virtually



CLS & Pathology Visitors

- After lockdown, CBC allowed to have 1 visitor at a time
 - Wanted their time spent at CBC to be limited
 - Masks and temperatures must be taken
 - Created the COVID-19 Visitor Policy



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CLS & Pathology Visitors



- Inevitably had a back log
 - CLS/Pathology programs were very understanding
 - It took two months of constant educating



Virtual Learning – CLS Students

- We needed students as prepared as possible for their decreased time in the lab
 - Focusing on performing tasks, not theory
 - Created handbook to go over theory
 - Videos helped students see process prior to performing



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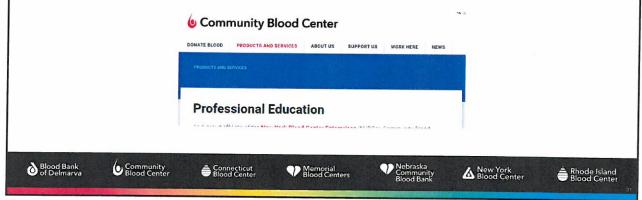
Virtual Learning – Pathology Residents

- · Created modules as well
 - Same focus as CLS modules
 - Only IRL specific
 - Unable to create virtual experience for other areas of the blood center

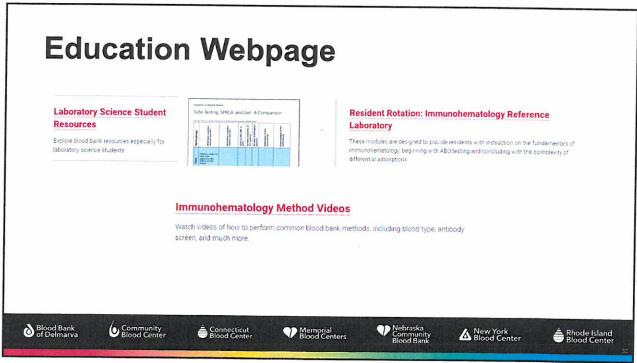


Education Webpage

 Created an education-based webpage to contain the lessons created



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Virtual Learning Update

 In August of 2021, visitors were allowed back into CBC – no restrictions



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Virtual Learning Update

- Continued to use learning modules
 - Allows students/residents to learn theory prior to coming
 - Videos allow students/residents to see processes before performing them
 - Maximizing time spent in the laboratory















The Future of Education

- The use of the virtual modules helped prepare the students
 - Anecdotal evidence only
 - Have seen assessment scores remain stable
 - More data is needed to see if there is an observable trend



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The Future of Education- CLS/Residents

- Initially, modules were used to help limit the time students were at CBC
 - Meetings with students has shown that maybe we can use the modules to allow them to perform more while at CBC



Rhode Island

The Future of Education - EBB

- Virtual lectures will never go away
 - Allows for more attendees
 - Allows individuals to attend "on demand" to fit their schedule



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Blood Bank

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The Future of Education - EBB

- Goal is to go back to in-person EBB
 - Some learners may learn best in a group environment – CLS students especially
 - Allows for networking and face-to-face interaction
 - Possible live stream for virtual attendees



The Future of Education

- Create a virtual tour of CBC
 - Allows for in depth look at all departments
 - Could be used internally



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