STOP & SIG-COVID: Two Studies, One REDCap



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The STOP and SIG-COVID Studies

- Both studies look at the early COVID-19 surge (03-05/2020) in MA and SARS-CoV-2 infection among healthcare workers (HCW)
- STOP aims to look at risk factors associated with HCW infection and phylogenetics to identify intra-hospital clusters (PI Karen Jacobson, Infectious Diseases)
- SIG-COVID is a point seroprevalence study looking at SARS-CoV-2 antibody prevalence among HCW (PI Yachana Kataria, Pathology)
- Both studies performed SARS-CoV-2 serology as a study activity

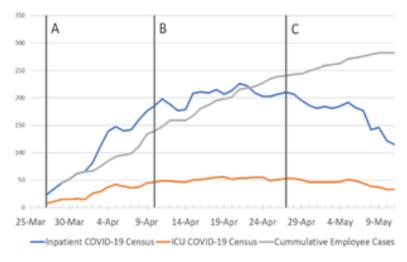
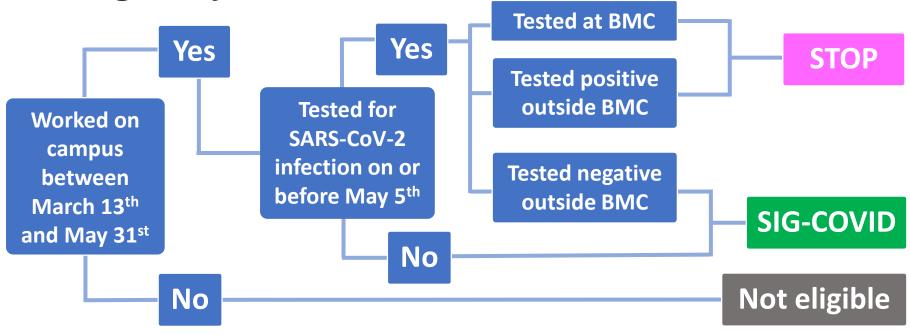


Figure 1. Boston Medical Center SARS-CoV-2 PCR positive COVID-19 Cases.



Eligibility Criteria



Boston University School of Medicine



Why one REDCap project?

- Overlap in study population of interest
 - all STOP participants were eligible for SIG-COVID
- Reduced research burden on BMC employees
- Enabled co-recruitment (e.g., shared flyers, posters, etc.)
- Enabled co-screening (i.e., self-administered screening on REDCap)
- Enabled collaboration between two study teams and necessary data/results sharing
 - All STOP participants were also SIG-COVID participants, so SIG-COVID had access to STOP questionnaire data
- Shared phlebotomy station during two-week period

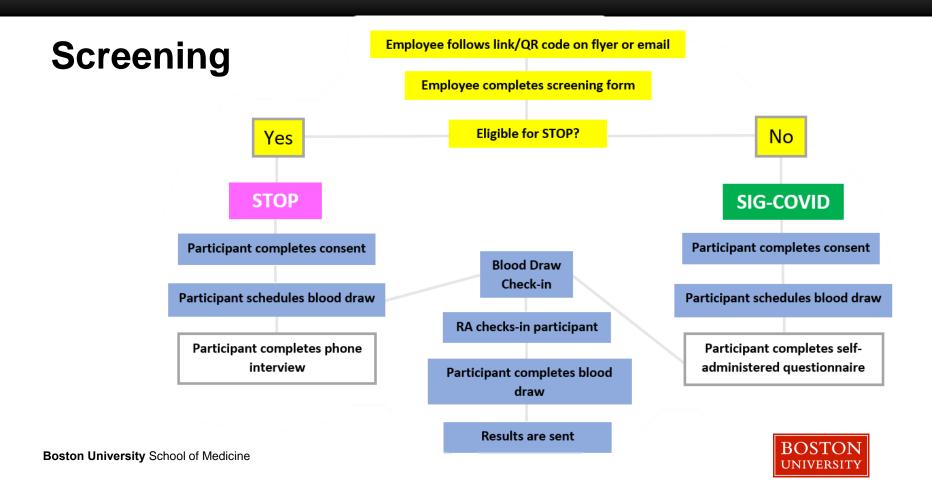


Employee follows link/QR code on flyer or email **REDCa** Employee completes screening form p Flow Eligible for STOP? No Yes **STOP SIG-COVID** Participant completes consent Participant completes consent **Blood Draw** Check-in Participant schedules blood draw Participant schedules blood draw RA checks-in participant Participant completes phone Participant completes selfinterview administered questionnaire Participant completes blood draw Results are sent **Boston University** School of Medicine UNIVERSITY

REDCap Functions Overview

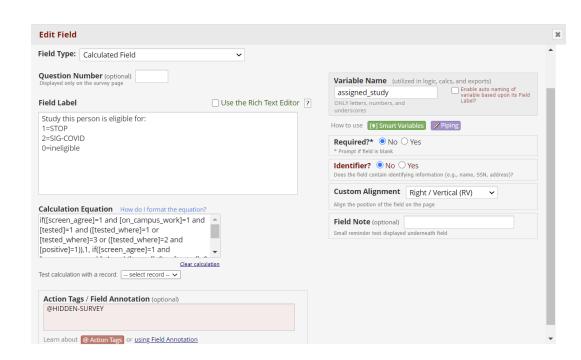
- Screening
 - Calculated field
- Consent
 - Branching logic; Confirmation email with attached PDF
- Scheduling
 - Response limit; Confirmation email
- Check-in
 - REDCap report; Branching logic
- Release of results
 - Data import tool; Alerts and notifications





Screening

- Based on eligibility, participants were deemed eligible for either STOP, SIG-COVID, or neither study
- Calculated field was used to identify which study a participant was eligible for

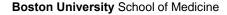




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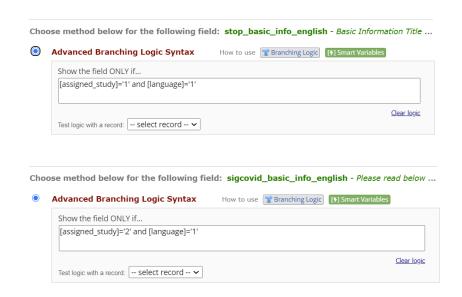
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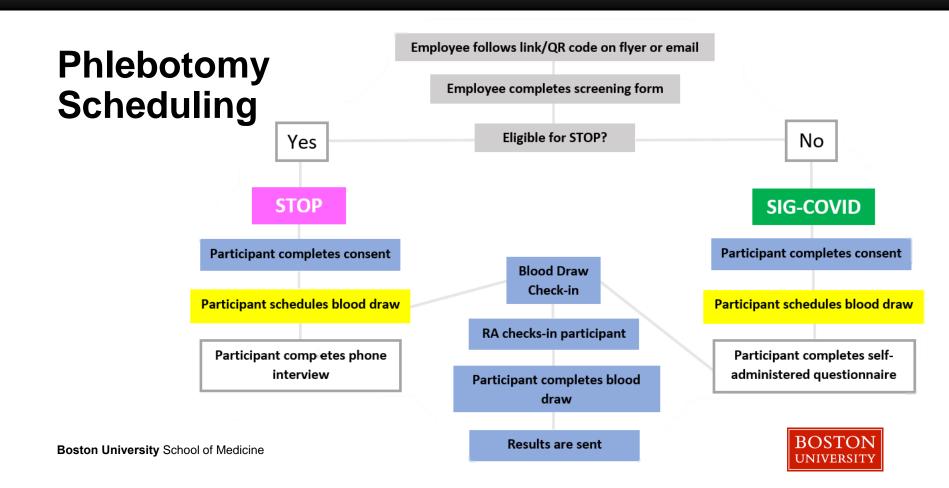


Consent

- 6 different versions built into the same REDCap form based on study and preferred language from screening form
 - Languages: English, Spanish, Haitian-Creole
- Used branching logic to route participants to one of the 6 versions
- E-signature provided
- Confirmation email sent with attached PDF of completed form

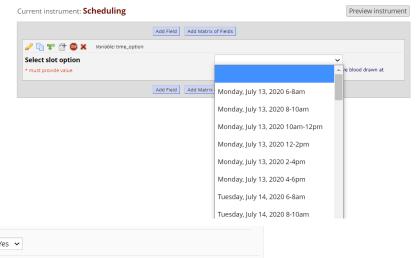




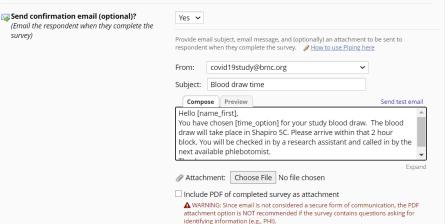


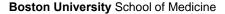
Phlebotomy Scheduling

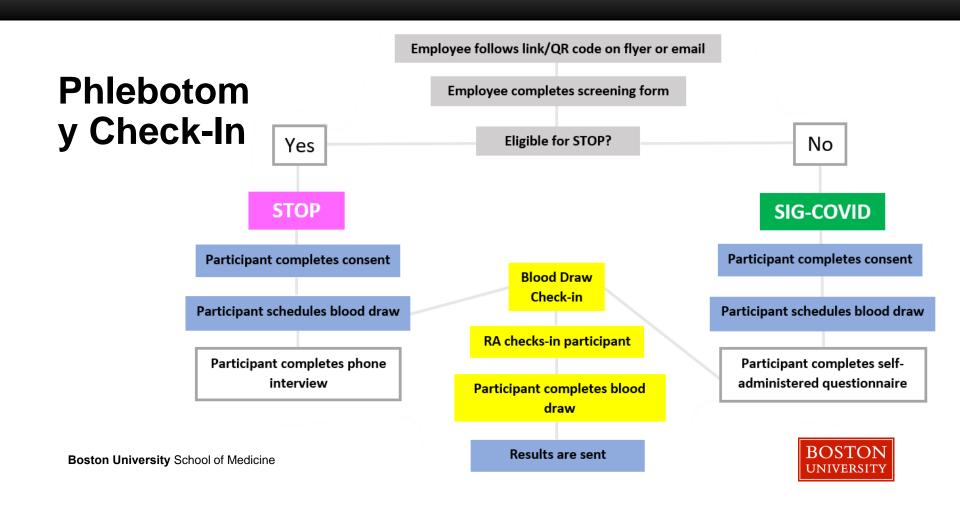
- Drop-down to select a twohour time slot
- Used response limit to set maximum number of blood draws scheduled for each two-hour period
- Confirmation email sent from REDCap with selected time



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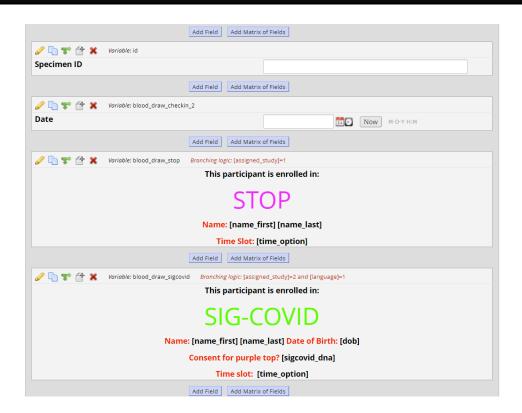






Phlebotomy Check-in

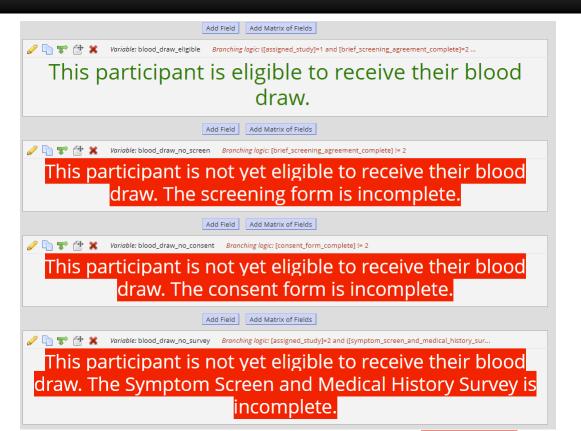
- RA searched for participant by last name using REDCap report
- Specimen ID used as secondary identifier to distinguish between the two studies (e.g. STOP-001 or SIGC-001)
- Name and chosen time slot piped into form
- Color of study name text matched color of requisition forms



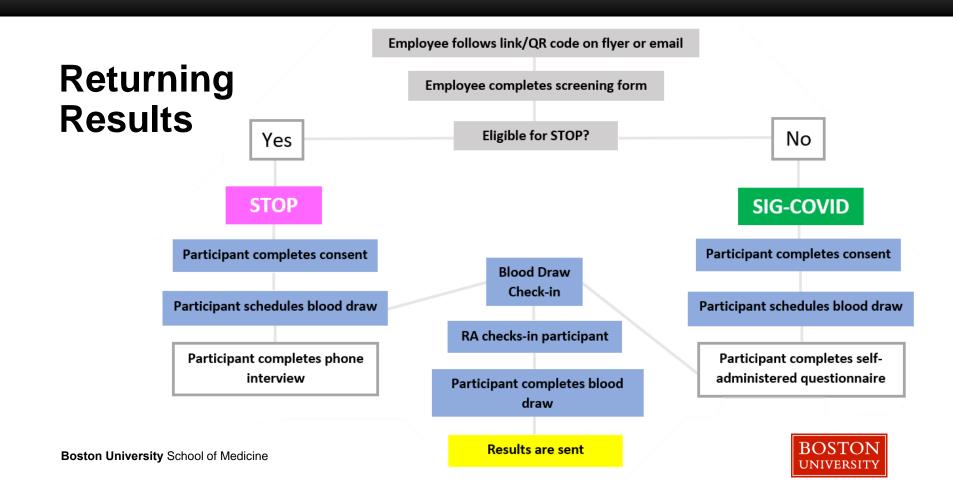


Phlebotomy Check-in

- Branching logic used to alert RA to any incomplete forms
- Participants were instructed to complete forms before returning for blood draw
- When all required forms were complete, the RA would see a message that participant is eligible for blood draw (top)

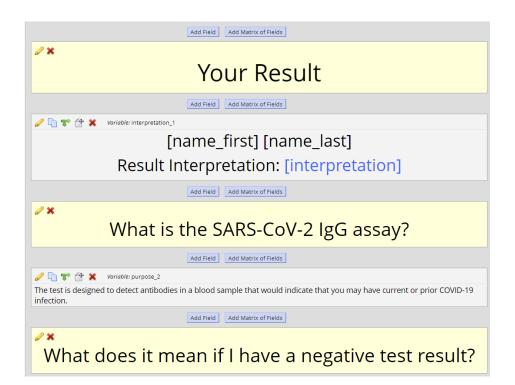






Returning Results

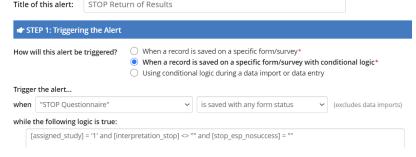
- Uploading Results
 - Results data imported using Data Import tool
 - Lab data was uploaded to a serology results form, then the interpretation field was piped into a survey which participants could access
 - Survey included information on the test and how to interpret results

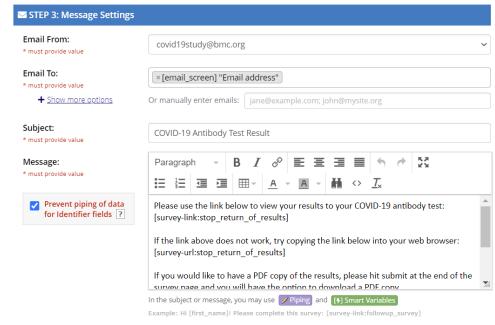




Returning Results

- Dissemination of Results (STOP)
 - Alert created to automatically send results link if serology results were uploaded and questionnaire was complete







Thank you!

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