

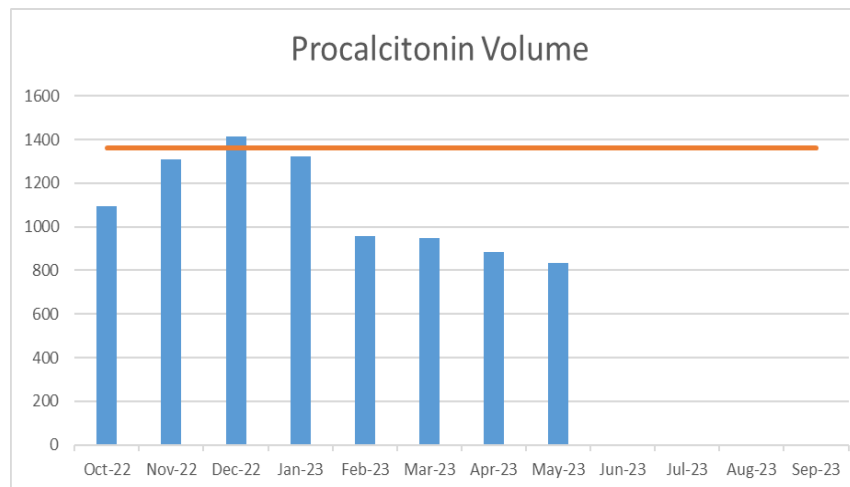
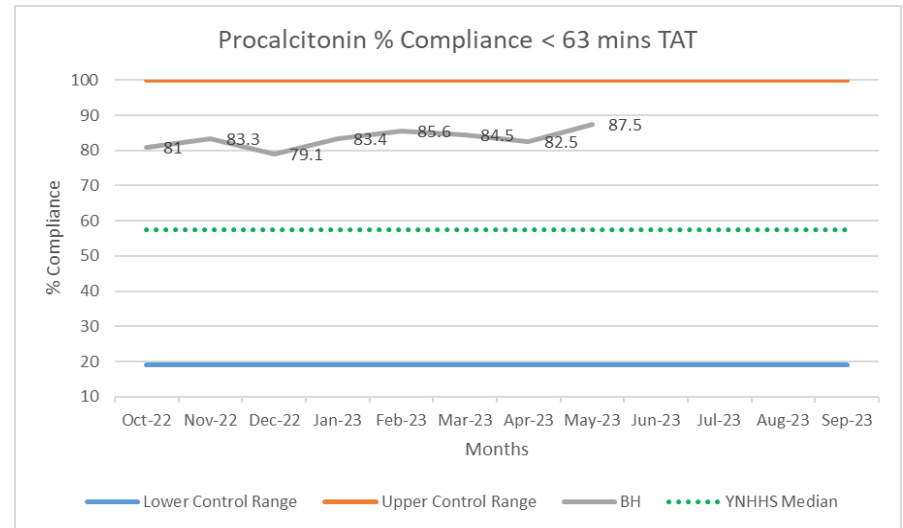
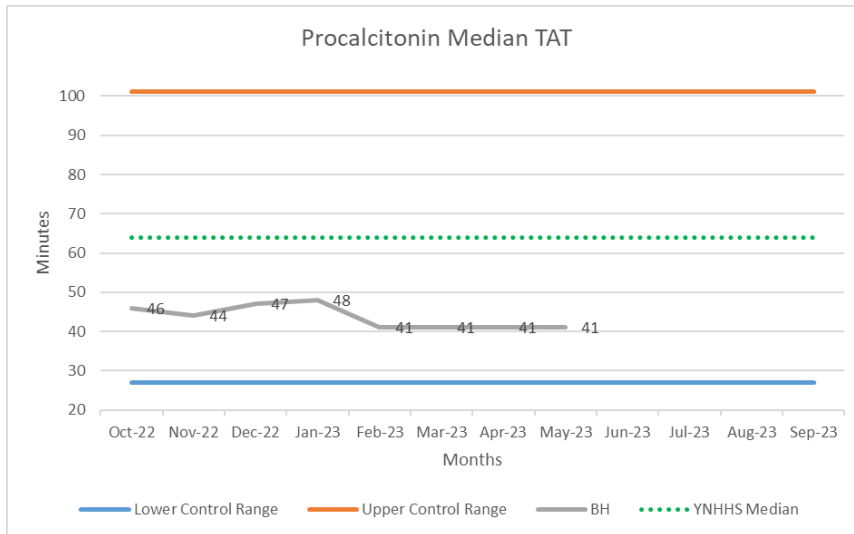
Laboratory Medicine – April 2023

June 26, 2023

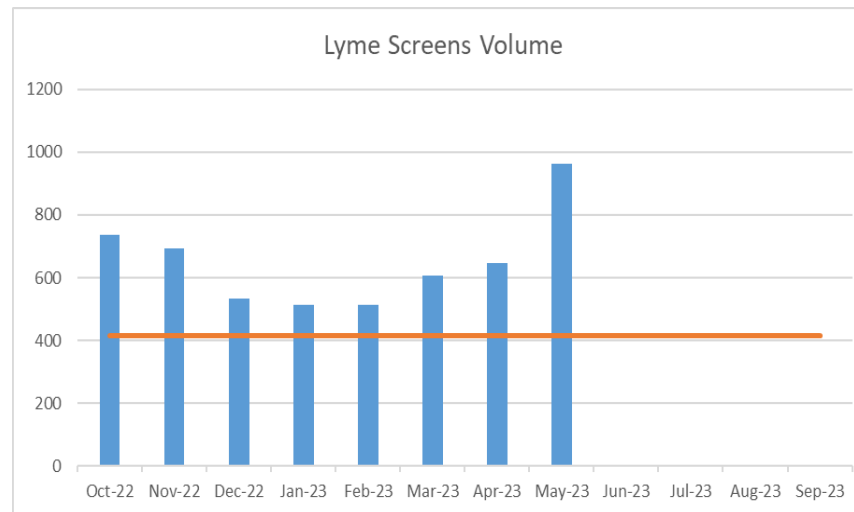
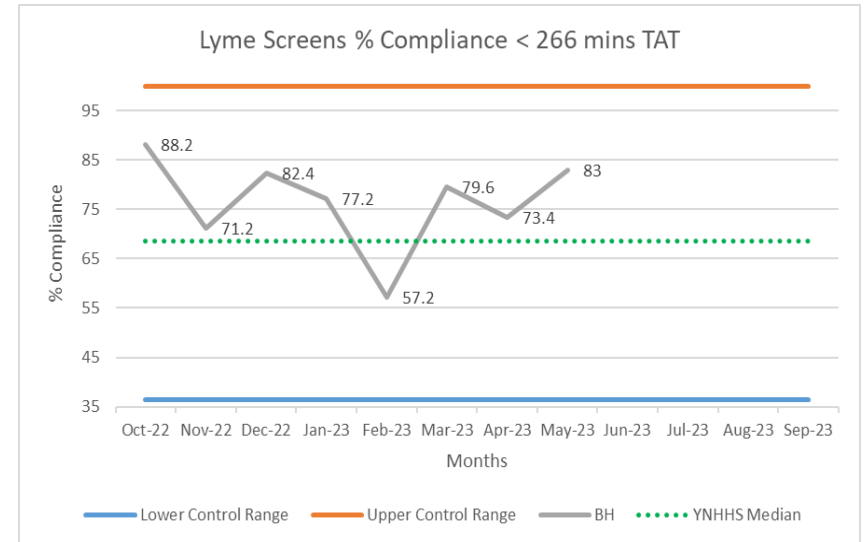
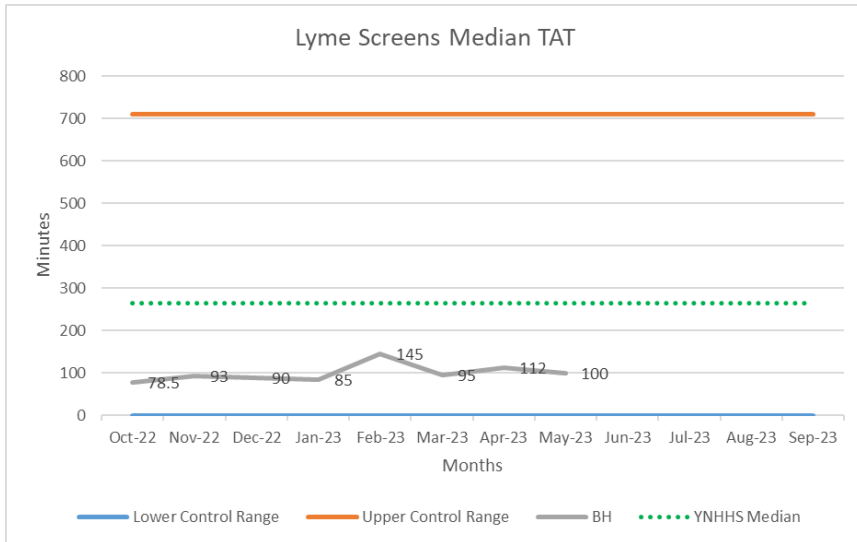
Bridgeport and Milford Campuses Turnaround Time Goals

- Mean determined from median TAT across the Yale New Haven Health System delivery networks
 - Bridgeport and Milford Campuses – Bridgeport Hospital, Greenwich Hospital, Lawrence Memorial Hospital, Westerly Hospital, St. Raphael and York Street Campus – Yale New Haven Hospital and Shoreline Medical Center
- Standard Deviation calculated
- 2 SD Range established and represents the upper and lower limits
 - If data set within control range, no corrective actions are necessary

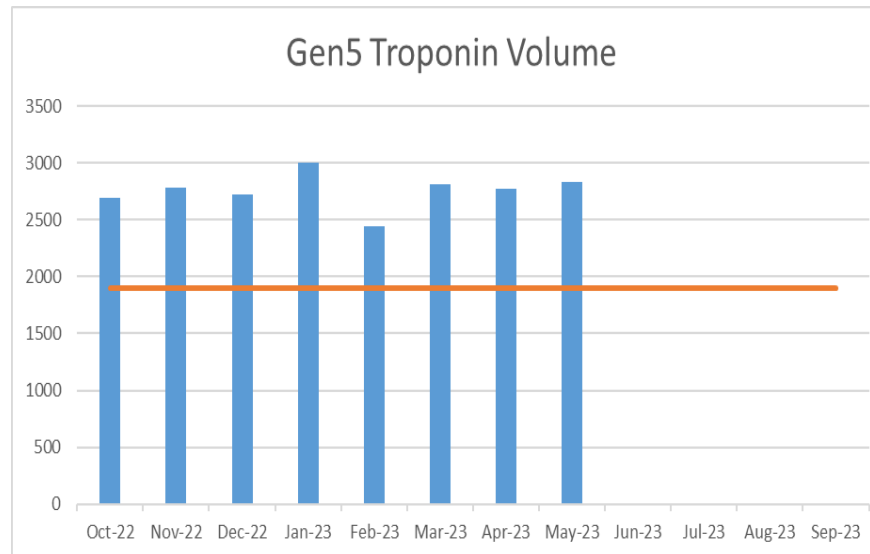
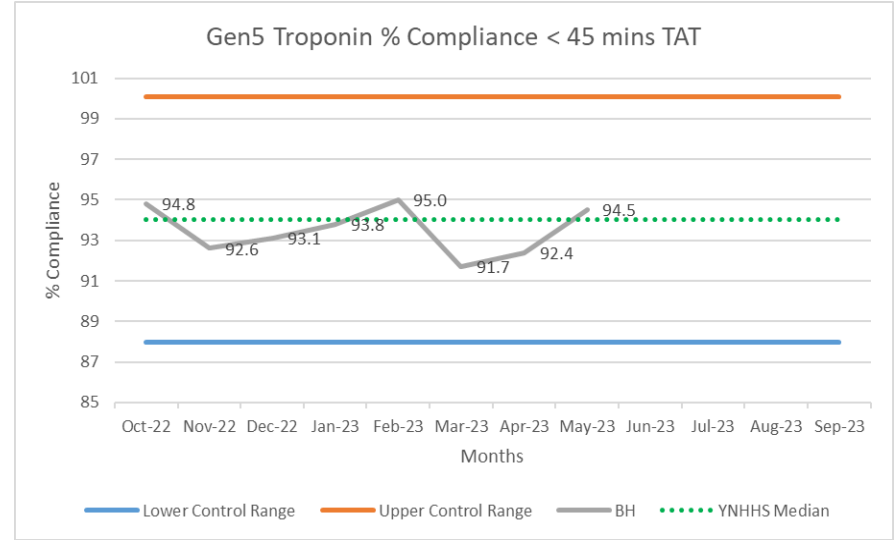
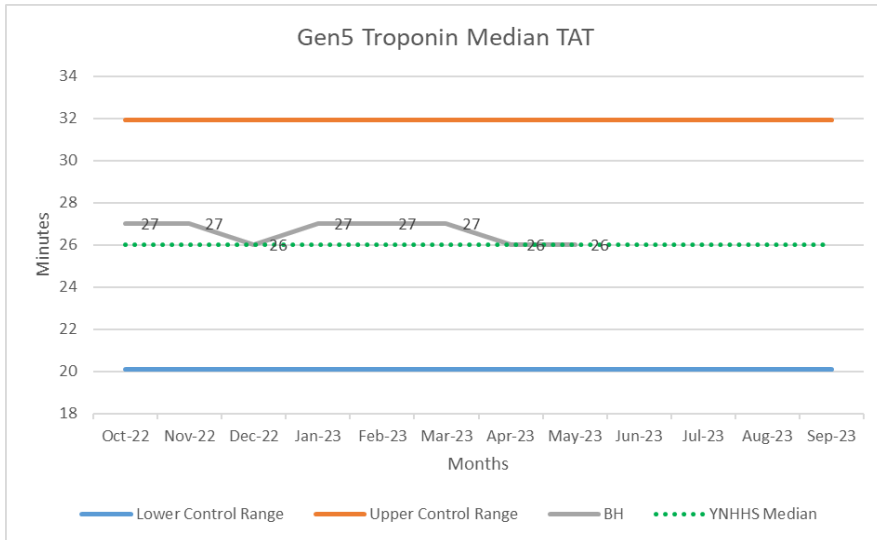
Bridgeport Campus – Procalcitonin



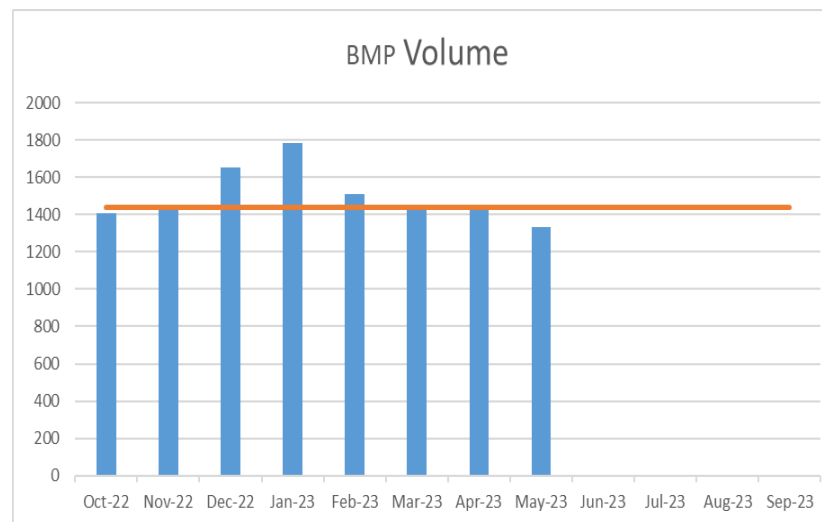
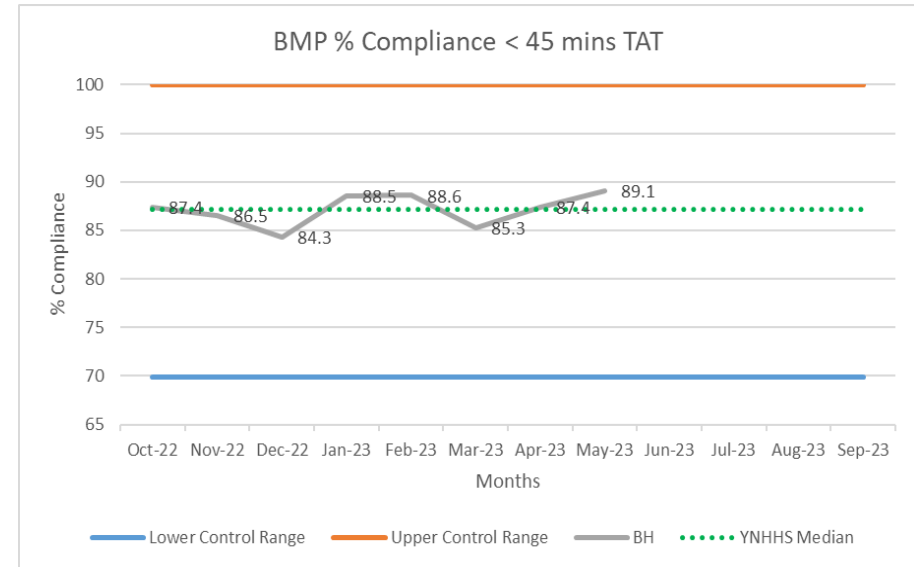
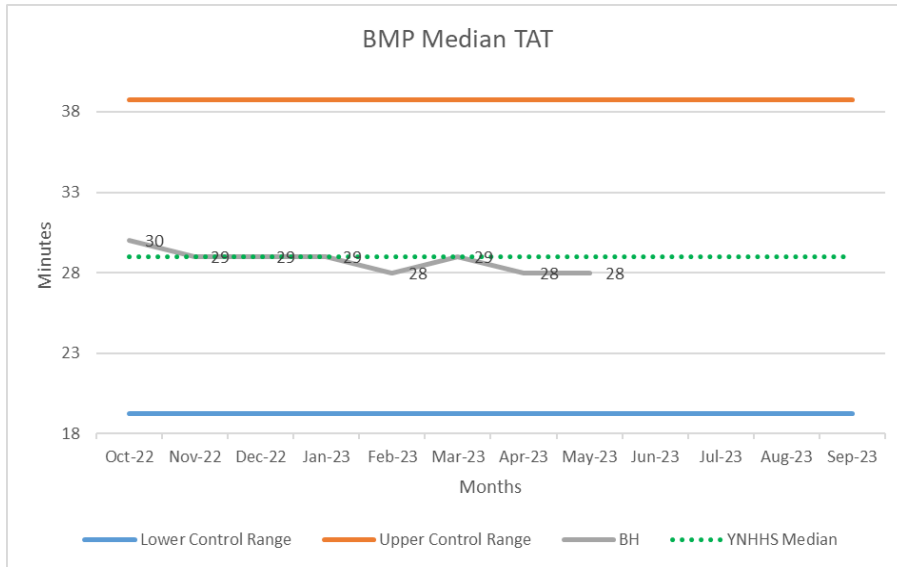
Bridgeport Campus – Lyme Screens TAT



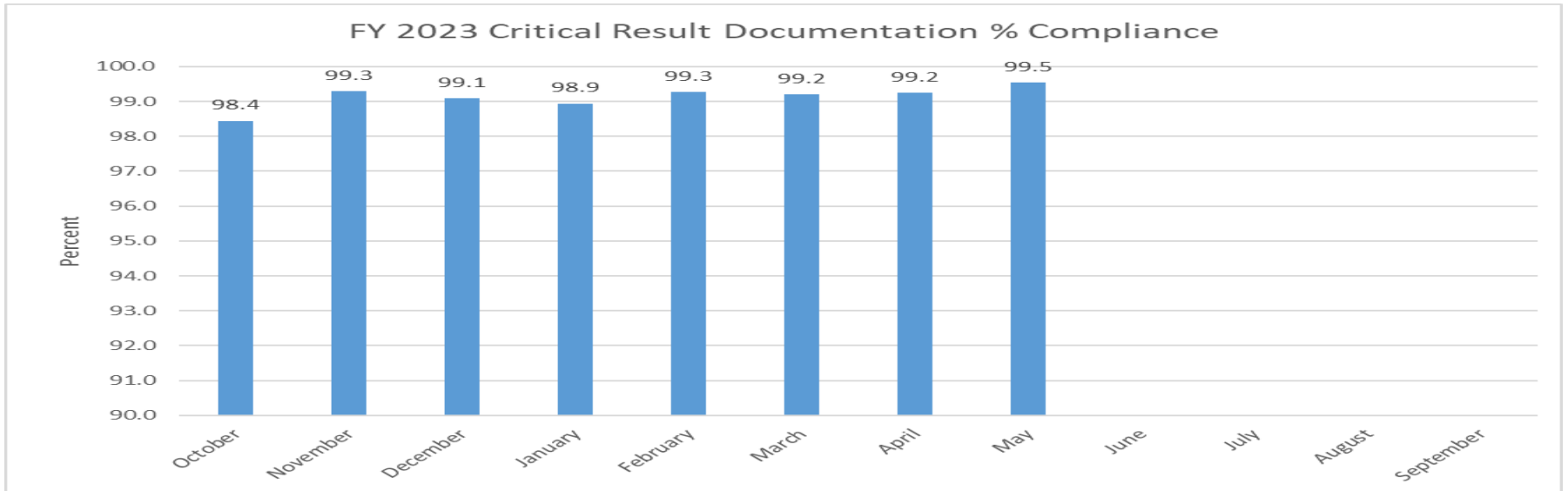
Bridgeport Campus – Gen 5 Troponin TAT



Bridgeport Campus – Basic Metabolic Panel (BMP) ED TAT



Chemistry & Immunology

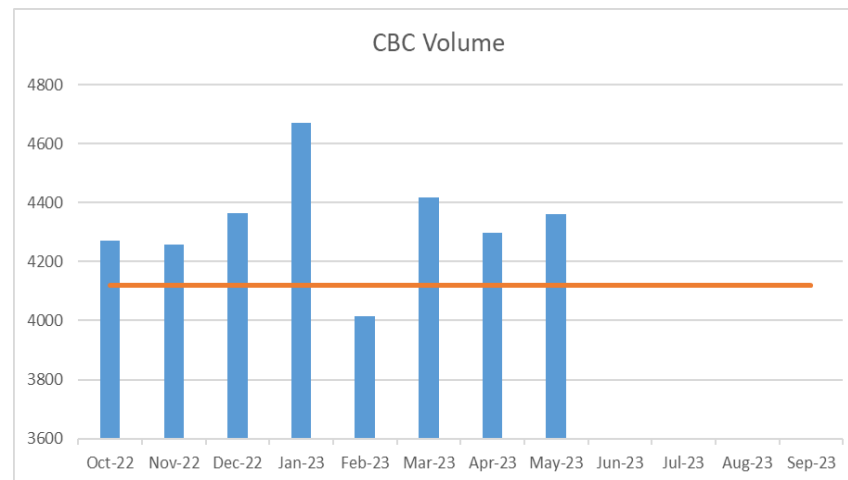
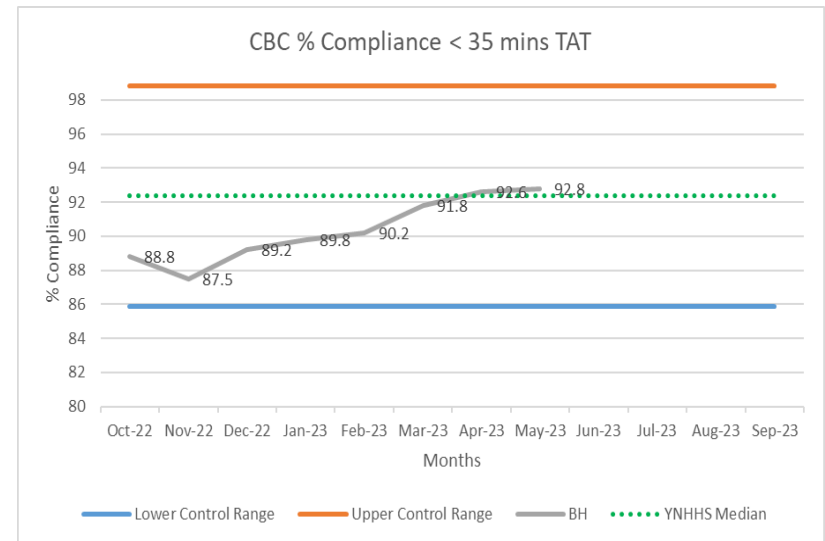
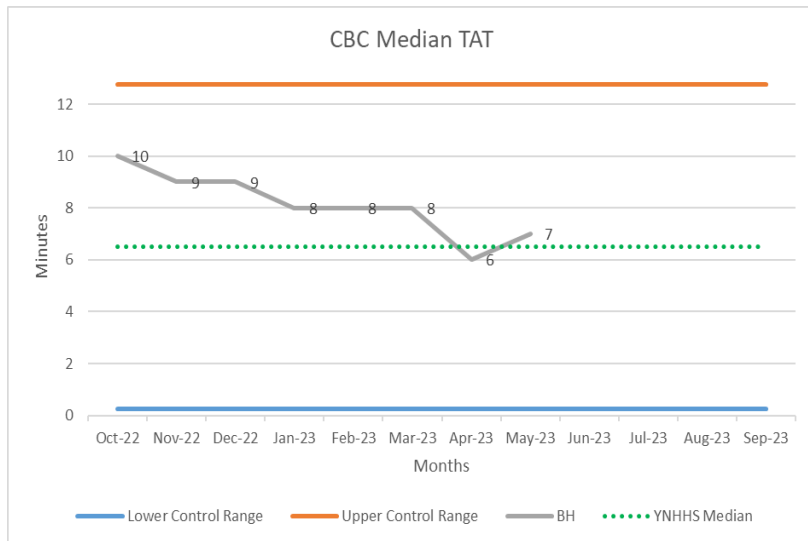


	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
n	1415	1425	1418	1509	1241	1391	1328	1330				
#compliant	1393	1415	1405	1493	1232	1380	1318	1324				
#noncompliant	22	10	13	16	9	11	10	6				

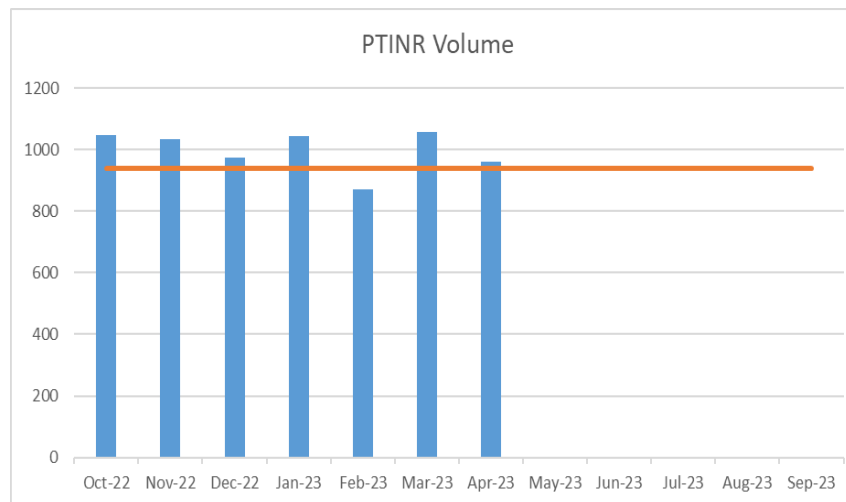
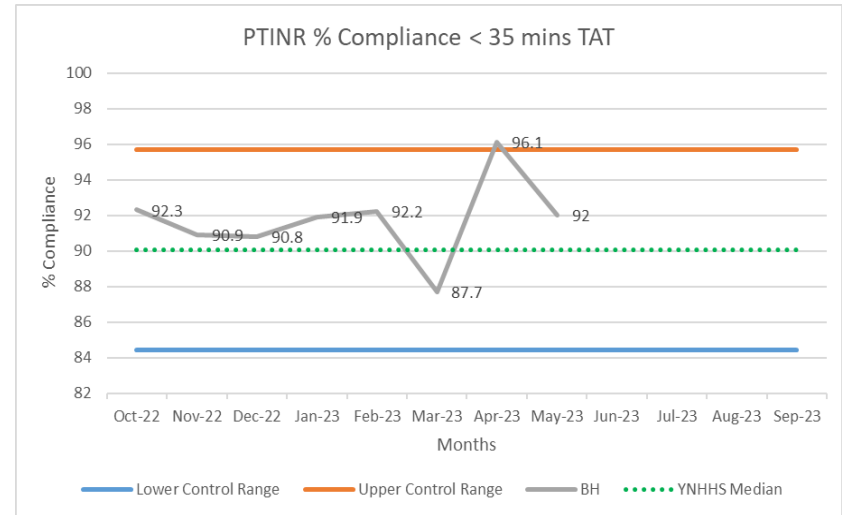
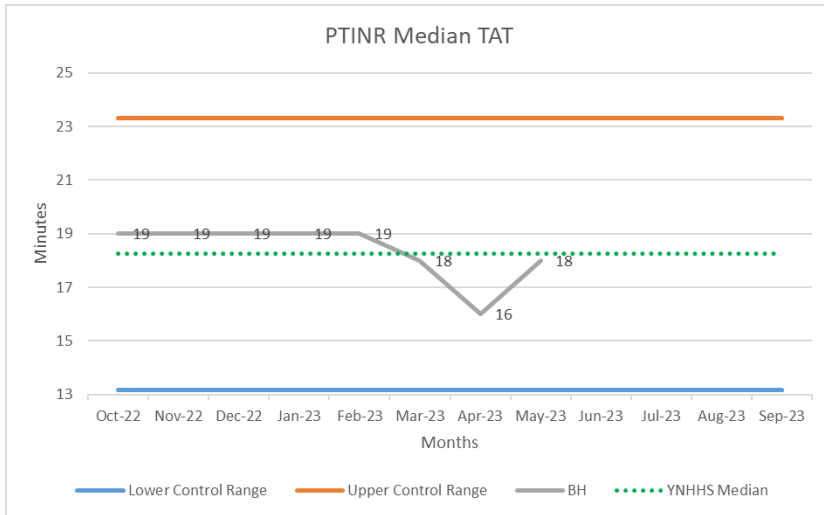
no name	7	1	1	6	4	5	5	2				
no full name	8	4	1		1	2						
no title	4	4	1	7	2	1	4	4				
incorrect doc	1	1	10	2	2	1	1					
incorrect person	2			1								
not called						2						

no name: tech must backspace the field and enter correct name
 Each outlier was addressed with individual tech.

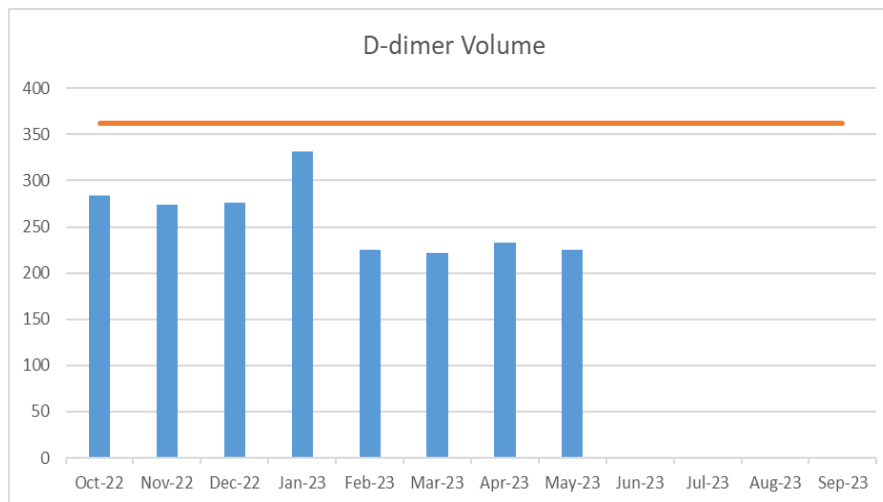
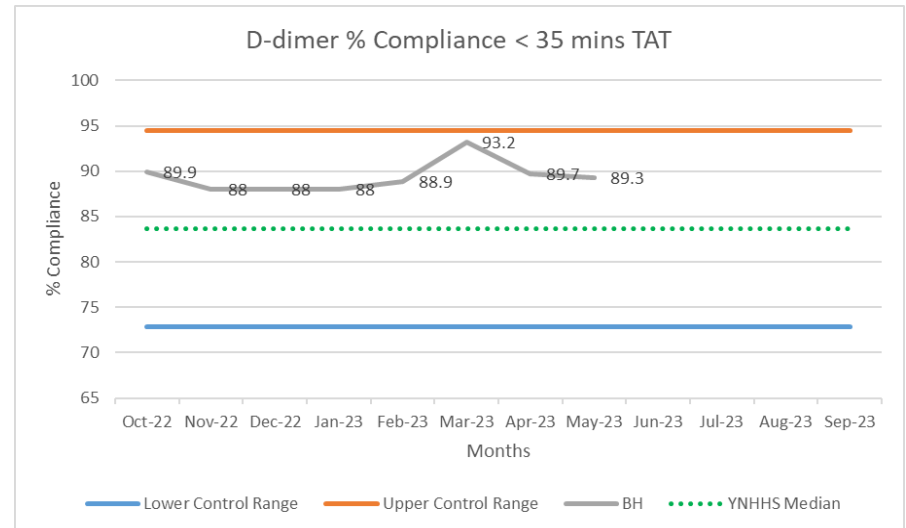
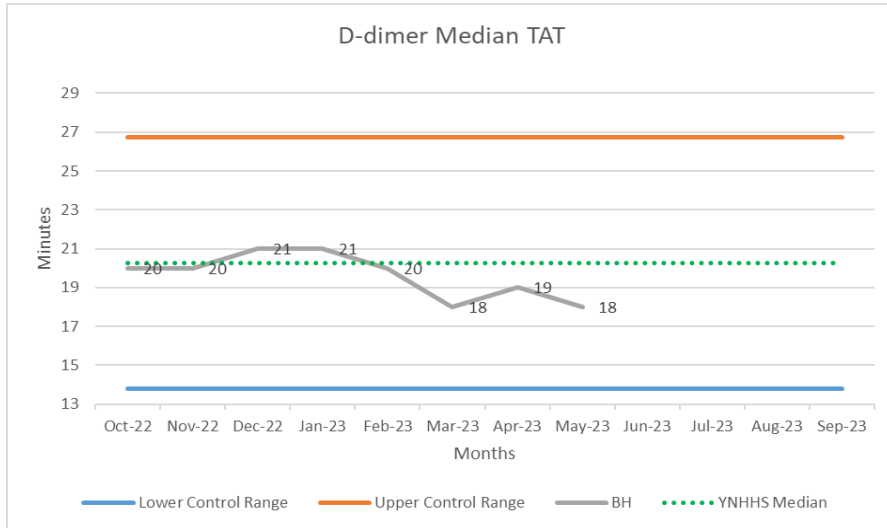
Bridgeport Campus – Complete Blood Count (CBC) ED TAT



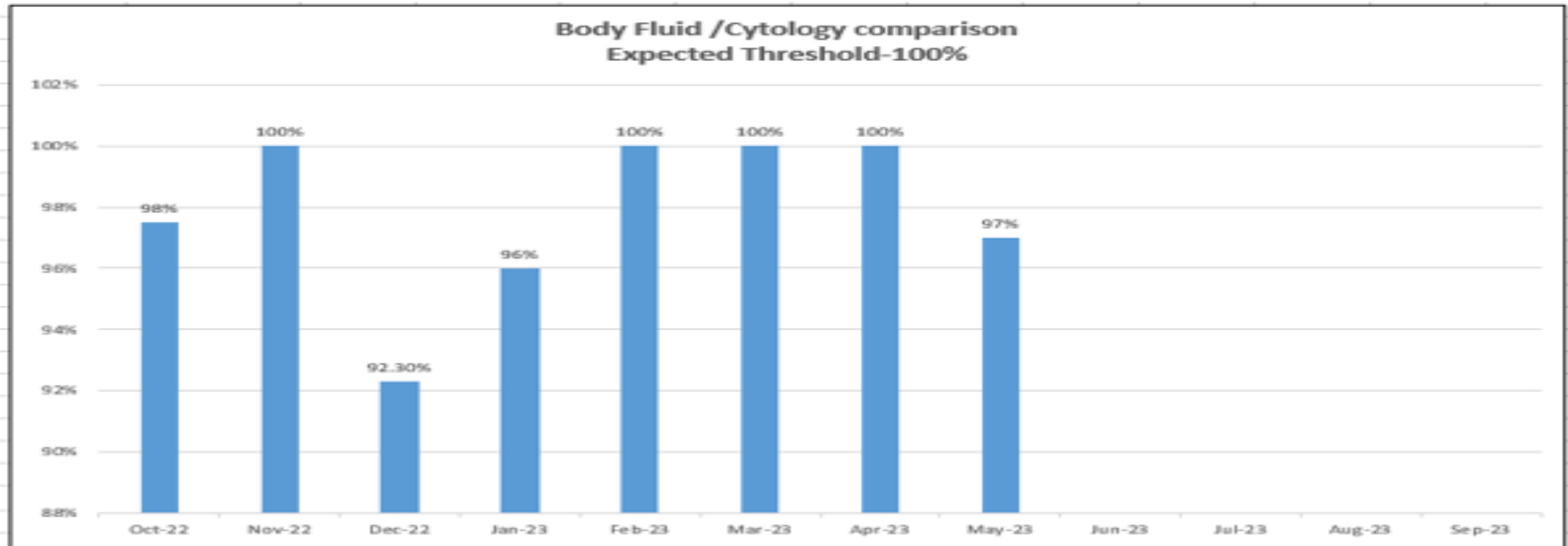
Bridgeport Campus – PTINR ED TAT



Bridgeport Campus – D-dimer ED TAT

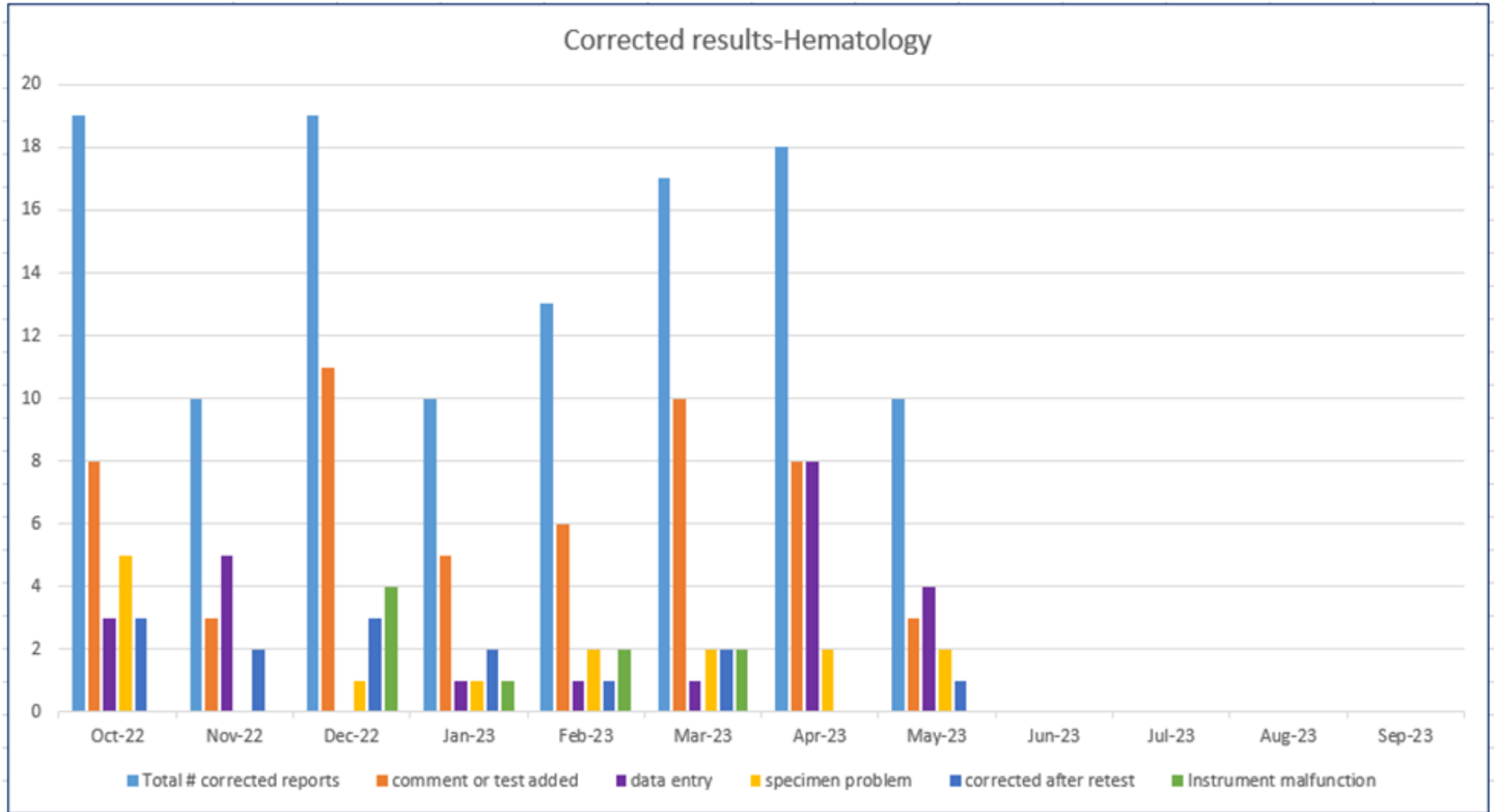


Aspect of Care

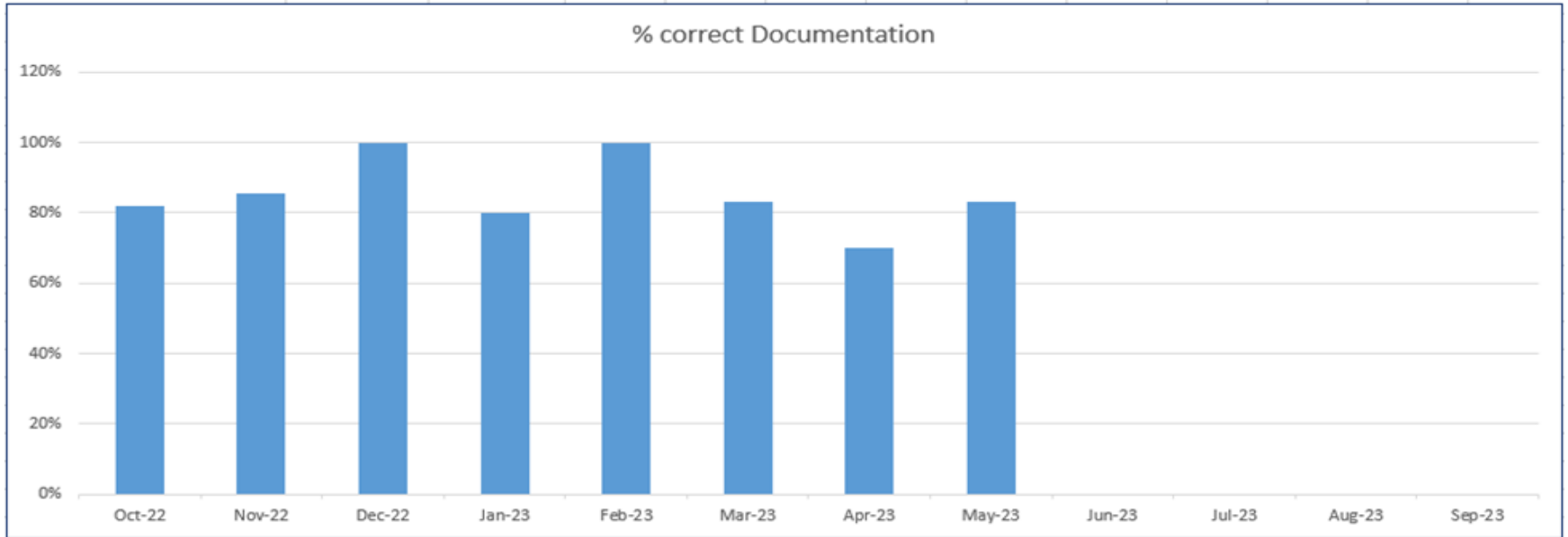


	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
Total # of Fluids	142	155	128	157	142	175	150	163				
cytology ordered	67	65	65	71	62	85	59	82				
# of fluid diffs that did not correlate	2	0	6	3	0	0	0	2				
Threshold achieved	98%	100%	92.30%	96%	100%	100%	100%	97%				
Expected	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Action/ Outcome	Dr Chen not available to look at slides.3 experienced Techs looked at smears and did not see anything suspicious		6 slides -no correlation. Reviewed by Dr. Chen. No malignant cells seen on 5 of the slides. 1 slide positive. Reviewed with tech.	3 slides being reviewed by Dr. Minerowicz 1 of 3 had malignant cells. Reviewed slide with tech.			Will report out April next meeting	received by Dr. Minerowicz. 1 of the 2 slides had abnormal cells present				

Aspect of Care

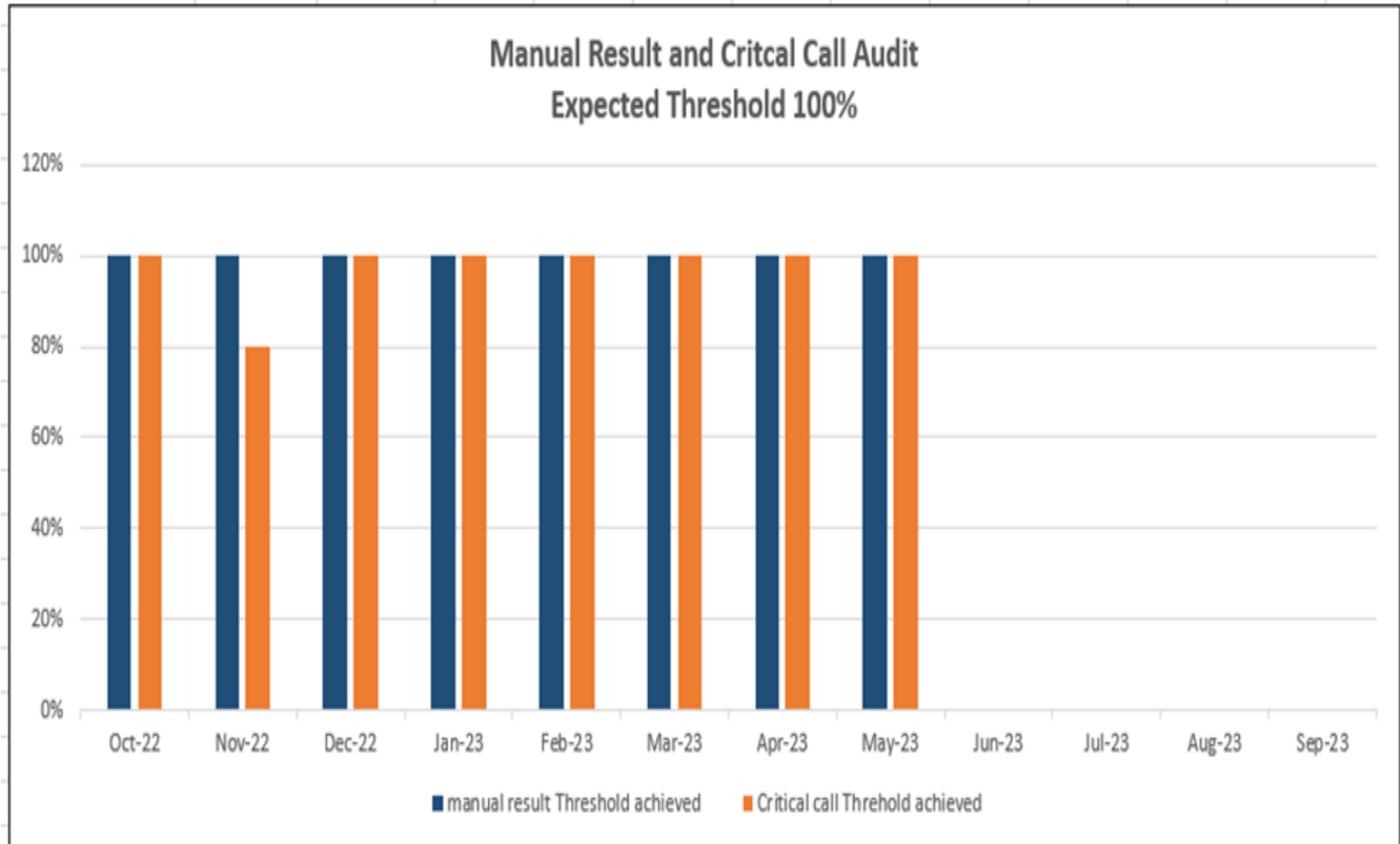


Aspect of Care

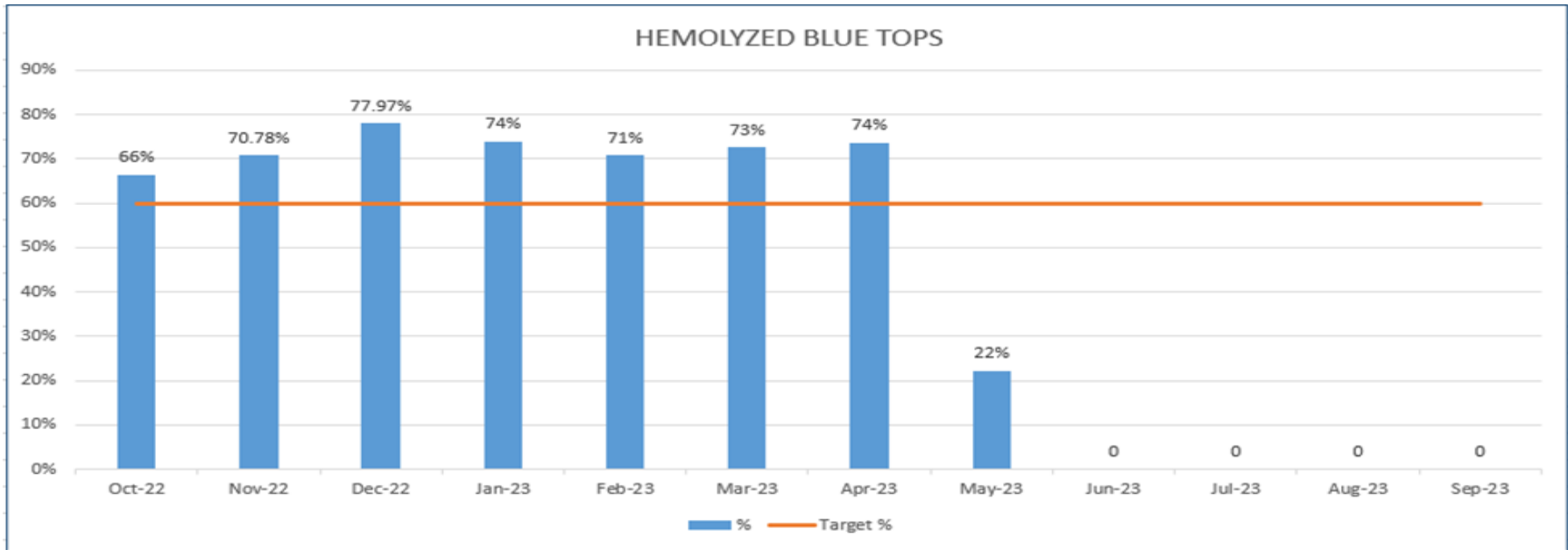


	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
corrected appended results	11	7	8	5	6	6	10	6				
incorrect documentation	2	1	0	1	0	1	3	1				
correct documetation	9	6	8	4	6	5	7	5				
% correct	82%	86%	100%	80%	100%	83%	70%	83%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Target	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Action/outcome:	Both were called but improperly documented. New employee-retrained on policy	Talked to the technologist. Was not called because tech thought that by adding comment he did not need to call.		Spoke to tech. First time occurrence.			after hours. Forgot to leave info for day shift to call.	Spoke individually to the techs. Same technologist for 2 of the 3				

Aspect of Care

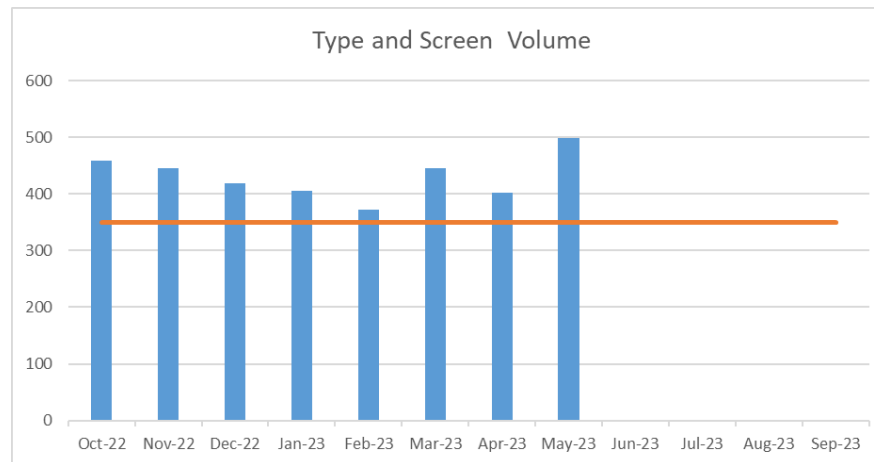
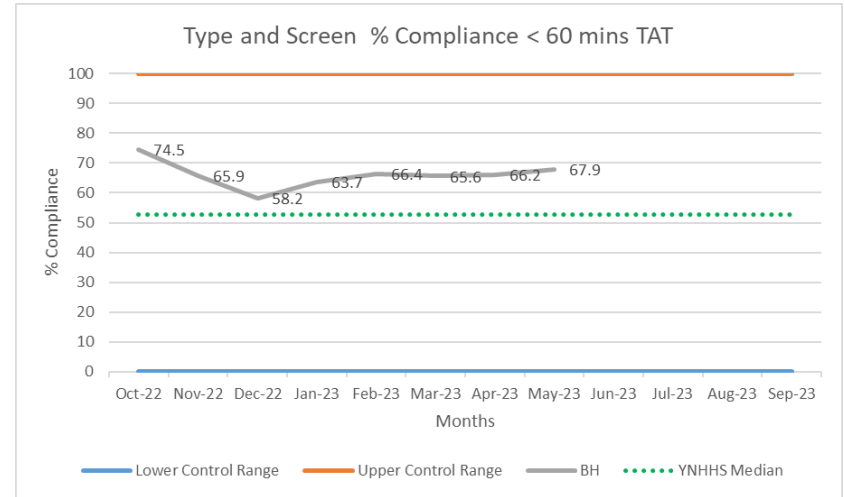
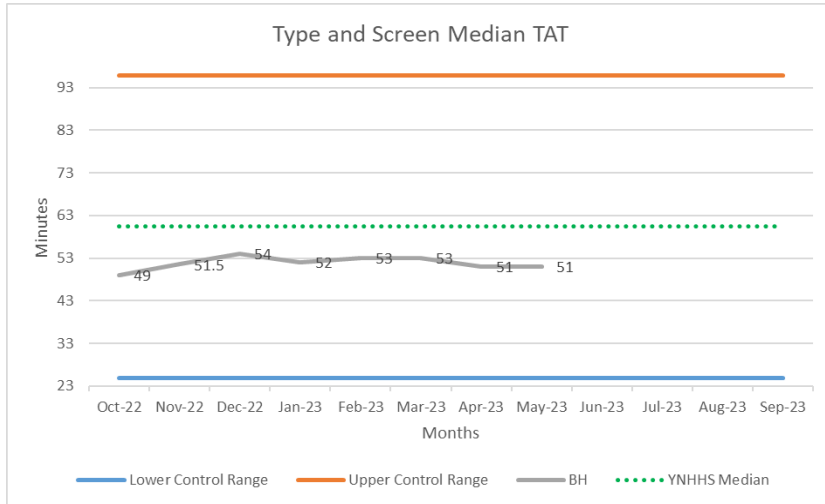


Aspect of Care



Month	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
%	66%	70.78%	77.97%	74%	71%	73%	74%	22%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Target %	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%
Total Hemolyzed	309	308	286	333	359	401	473	225				
Blue tops	205	218	223	246	254	291	348	50				
Action/Outcome		Study on the effect of hemolysis on results in-progress				in process of standarizing criteria across YNHHS	Hemolysis tolerance changed from 0 to ≤3 on May 8.					

Bridgeport Campus – Type and Screen ED TAT



Bridgeport and Milford Hospital Transfusion Reactions FY23

Bridgeport and Milford Hospital Transfusion Reactions FY23																		
Months	Total Per Site		Allergic		Febrile		Anaphy		TACO		TRALI		Hemolytic		Septic		Other	
	BH	MC	BH	MC	BH	MC	BH	MC	BH	MC	BH	MC	BH	MC	BH	MC	BH	MC
Oct	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
Mar	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr	4	0	1	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0
May	4	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0
Jun																		
Jul																		
Aug																		
Sep																		
Total	12	0	3	0	4	0	0	0	1	0	0	0	1	0	0	0	3	0

Bridgeport Hospital Blood Bank RBC

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total Amount
Transfusion	449	440	410	394	380	417	435	437					\$773,401
Discarded	4	5	7	8	5	0	5	4					\$9,027
Total	453	445	417	402	385	417	440	441					\$782,428

Bridgeport Hospital Blood Bank Cryo

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total Amount
Transfusion	8	11	16	21	20	8	12	10					\$35,139
Wasted	2	2	0	1	0	1	0	0					\$1,989
Total	8	13	16	22	20	9	12	10					\$36,465

Bridgeport Campus FFP

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total Amount
Transfusion	52	50	35	36	36	27	43	143					\$112,041
Discarded*	22	11	27	24	18	31	21	22					\$46,728
Total	74	61	62	60	54	58	64	165	0	0	0	0	\$158,769

*Due to ACS Trauma Requirements

Platelet Utilization

	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Total Amount
Total	75	75	80	97	80	63	75	97	0	0	0	0	\$432,277
Transfusion	48	39	61	65	68	24	32	54					\$263,272
Discarded	27	36	19	32	12	39	43	43					\$169,005
% Discarded	36%	48%	24%	33%	15%	62%	57%	44%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Discarded/Day	0.87	1.2	0.63	1.07	0.43	1.26	1.43	1.39	0.00	0.00	0.00	0.00	\$734

CRSQ Report Out

Committee of Regulatory, Safety, & Quality

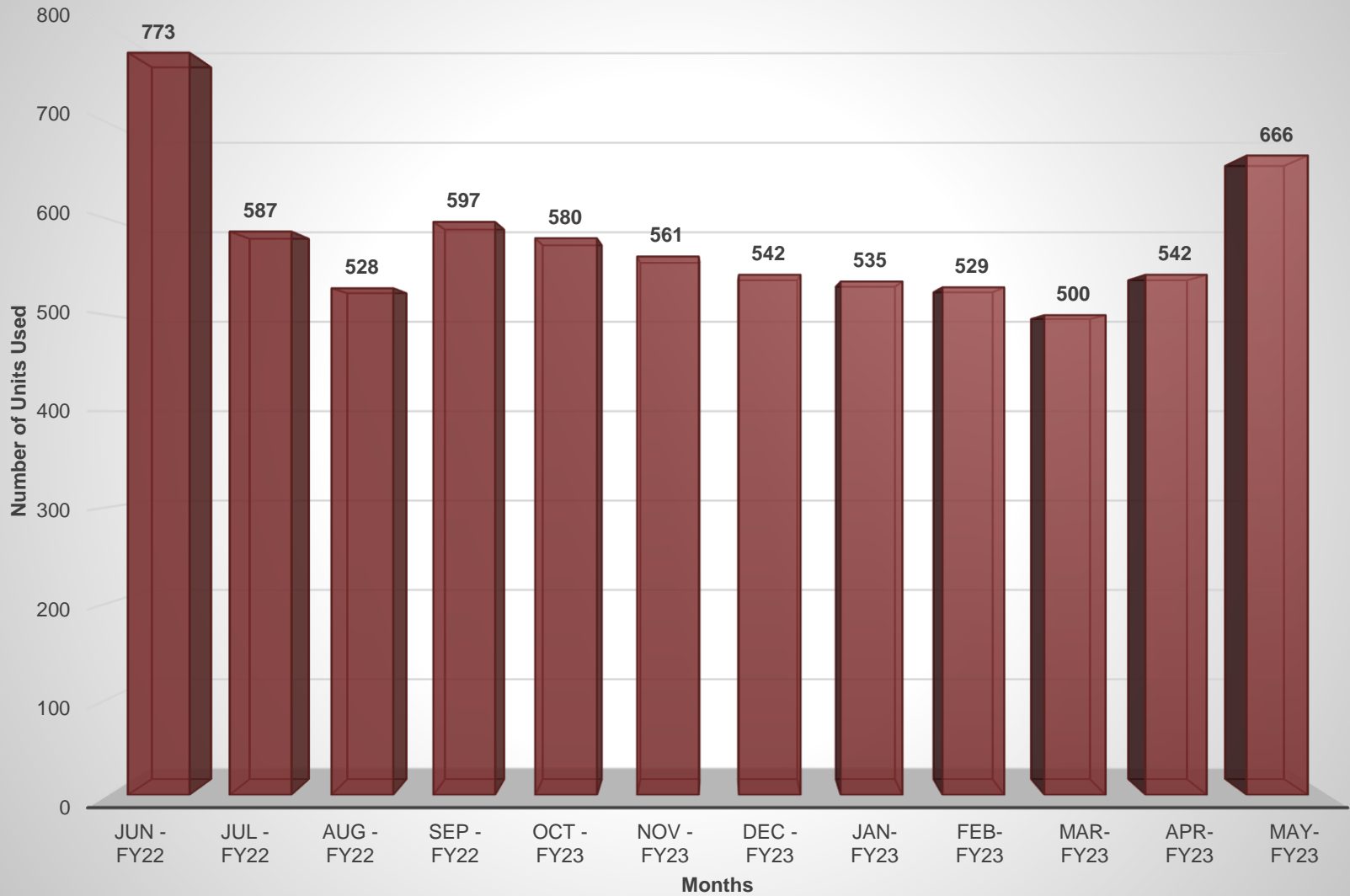
6/16/2023

Bridgeport Hospital

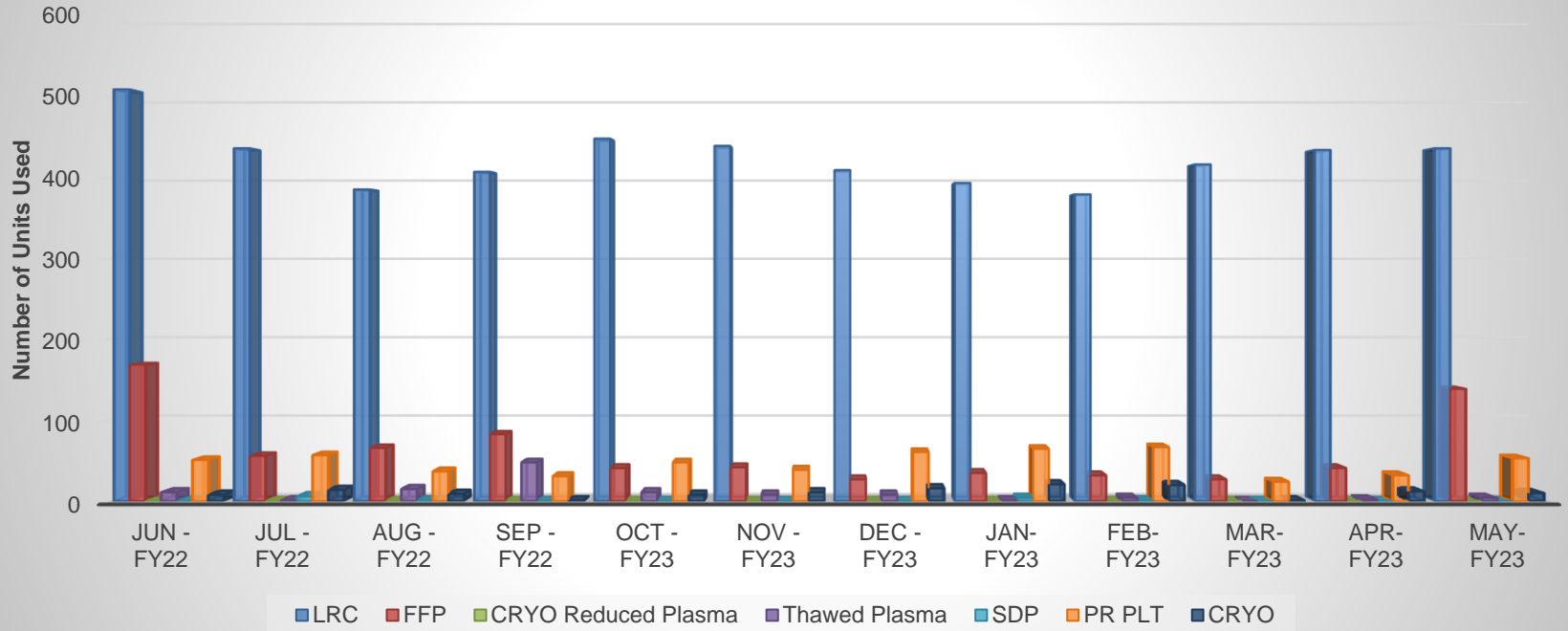
Laboratory Blood Bank

Edward Snyder MD, Christine Minerowicz MD, Lisa Krause, Melissa Morales, Teodorico Lee, Laura Buhlmann

Total Products Transfused - BH



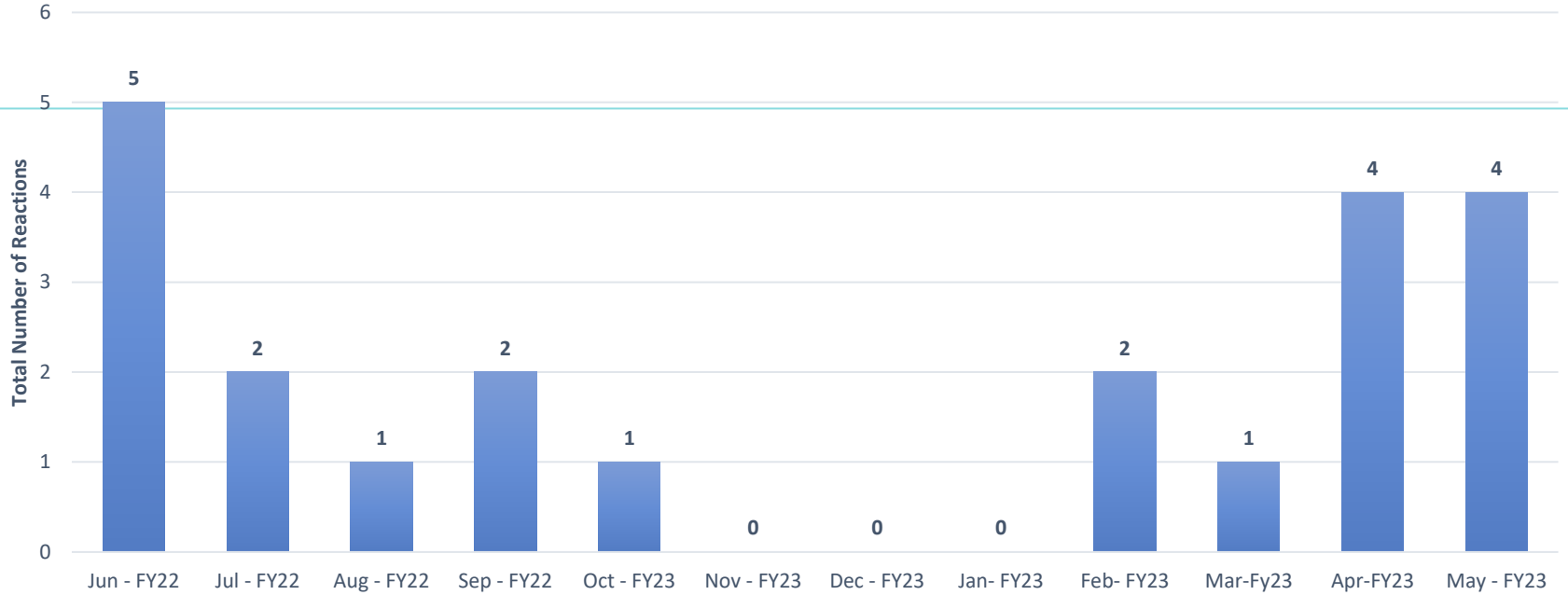
Transfused Blood Products By Component - BH



	LRC	FFP	CRYO Reduced Plasma	Thawed Plasma	SDP	PR PLT	CRYO
Jun - FY22	510	169	0	11	0	51	8
Jul - FY22	437	56	0	1	6	57	14
Aug - FY22	386	66	0	15	1	37	9
Sep - FY22	408	83	0	48	0	31	1
Oct - FY23	449	41	0	11	0	48	8
Nov - FY23	440	42	0	8	0	39	11
Dec - FY23	410	27	0	8	0	61	16
Jan- FY23	394	35	0	1	4	65	21
Feb- FY23	380	32	0	4	1	67	20
Mar-FY23	417	27	0	0	0	24	1
Apr-FY23	435	41	0	2	0	32	12
May- FY23	437	139	0	4	0	53	10

PI.01.01.01 EP6

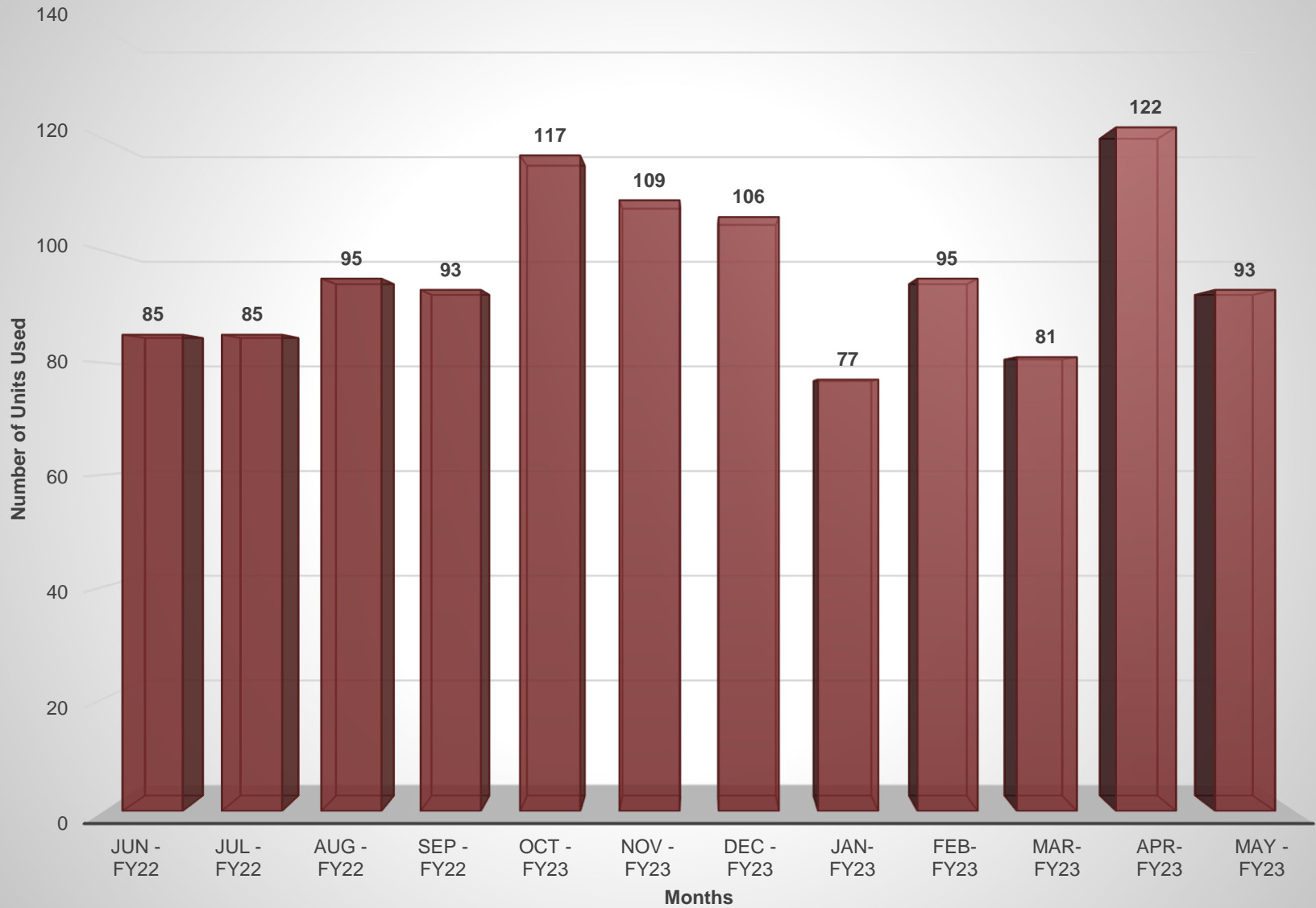
Total Transfusion Reaction - BH



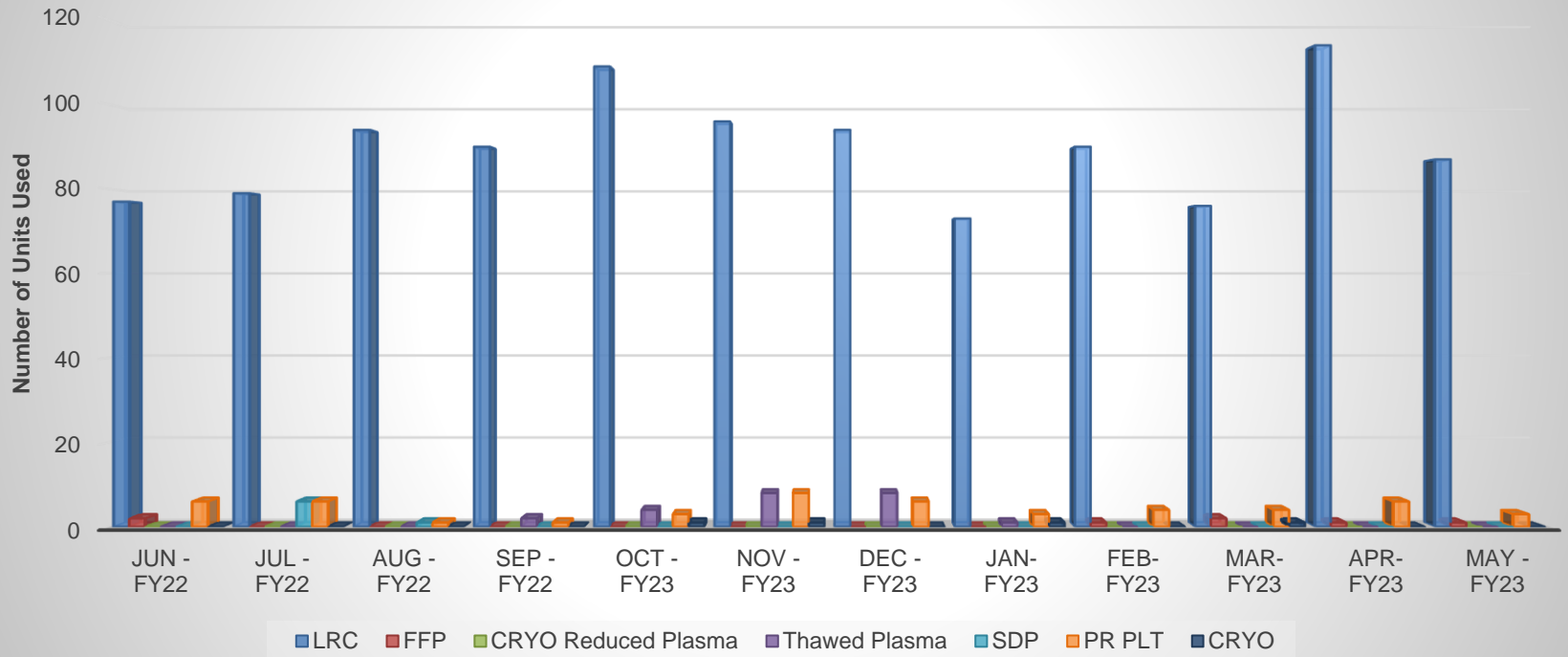
	Allergic		Febrile		Anaphylactic	Taco	Trali	Hemolytic	Other	Total
Jun - FY22	(2)	0.22	(3)	0.33	0.00	0.00	0.00	0.00	0.00	5
Jul - FY22	(1)	0.2	(1)	0.2	0.00	0.00	0.00	0.00	0.00	2
Aug - FY22	(1)	.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1
Sep - FY22	0.00	0.00	(1)	.17	0.00	0.00	0.00	0.00	(1) .17	2
Oct - FY23	(1)	.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1
Nov - FY23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Dec - FY23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Jan - FY23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Feb - FY23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(1) .13	(1) .13	2
Mar - FY23	0.00	0.00	(1)	0.17	0.00	0.00	0.00	0.00	0.00	1
Apr - FY23	(1)	0.73	(2)	1.46	0.00	(1) 0.73	0.00	0.00	0.00	4
May - FY23	(1)	0.91	(1)	0.91	0.00	0.00	0.00	0.00	(2) 1.82	4

PI.01.01.01 EP7

Total Products Transfused - MC



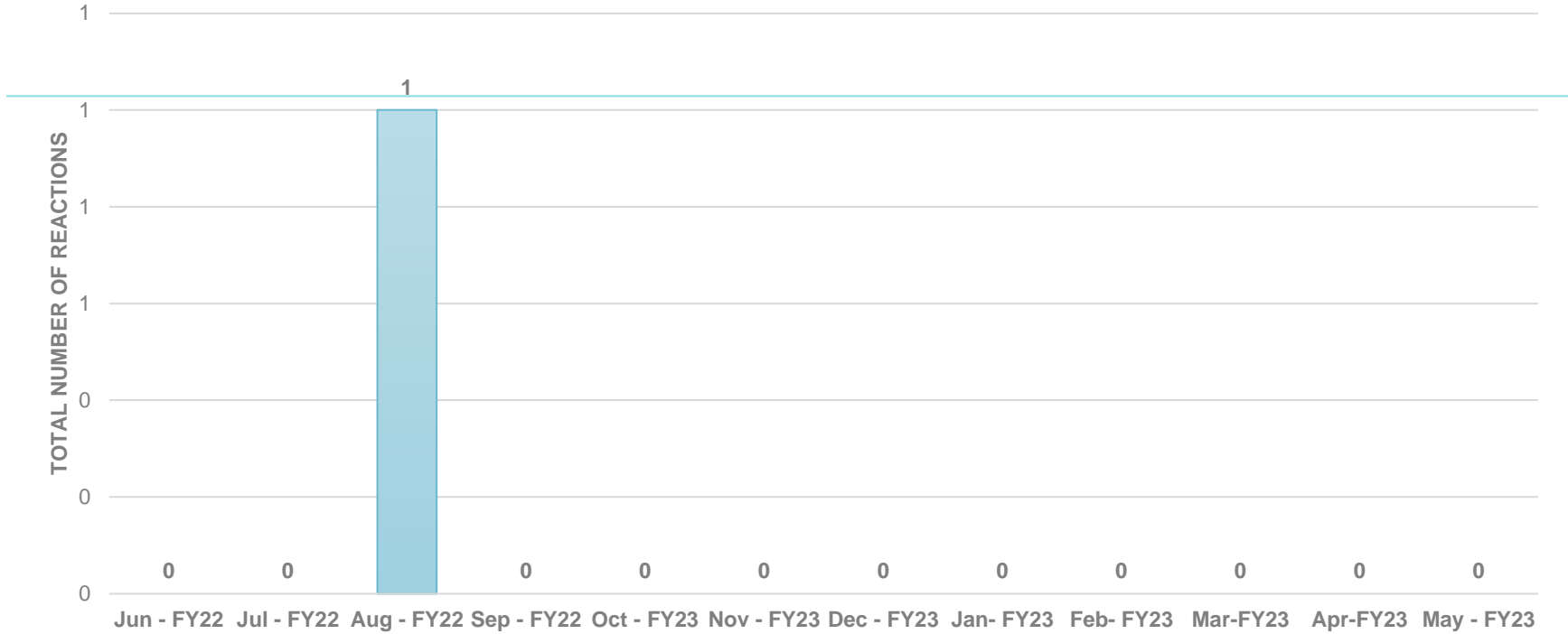
Trasfused Blood Products By Component - MC



	LRC	FFP	CRYO Reduced Plasma	Thawed Plasma	SDP	PR PLT	CRYO
Jun - FY22	77	2	0	0	0	6	0
Jul - FY22	79	0	0	0	6	6	0
Aug - FY22	94	0	0	0	1	1	0
Sep - FY22	90	0	0	2	0	1	0
Oct - FY23	109	0	0	4	0	3	1
Nov - FY23	96	0	0	8	0	8	1
Dec - FY23	94	0	0	8	0	6	0
Jan - FY23	73	0	0	1	0	3	1
Feb - FY23	90	1	0	0	0	4	0
Mar - FY23	76	2	0	0	0	4	1
Apr - FY23	114	1	0	0	0	6	0
May - FY23	87	1	0	0	0	3	0

PI.01.01.01 EP6

Total Transfusion Reaction - MC



	Allergic	Febrile	Anaphylactic	Taco	Trali	Hemolytic	Other	Total
Jun - FY22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Jul - FY22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Aug - FY22	0.00	(1) 1.05	0.00	0.00	0.00	0.00	0.00	1
Sep - FY22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Oct - FY23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Nov - FY23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Dec - FY23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Jan - FY23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Feb - FY23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Mar - FY23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Apr - FY23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
May - FY23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0

PI.01.01.01 EP7

Bridgeport Campus – 2023 Point of Care Performance Report Summary

MONTH	Threshold	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Incorrectly documented Urine POC Pregnancy Internal QC	0 errors	13 Volume = 1260	9 Volume = 1117	15 Volume = 1136	19 Volume = 1284	24 Volume = 1189	13 Volume = 1428	16 Volume = 1260	9 Volume = 1314					Incidents decreased while volume increased. One was incomplete documentation and one was incorrect information in lot field. 7 were control documentation issues, 3 of which were repeat staff. Emailed all and met with the 3 repeat staff.
# of i-STAT codes / # of cartridges run		28/333	17/323	18/221	18/325	12/418	10/315	13/267	9/301					Below Threshold - no issues identified
i-STAT Quality Check Codes	<5.0%	8.4%	5.3%	8.1%	5.5%	2.9%	3.2%	4.9%	3.0%					

Performance Improvement Plan

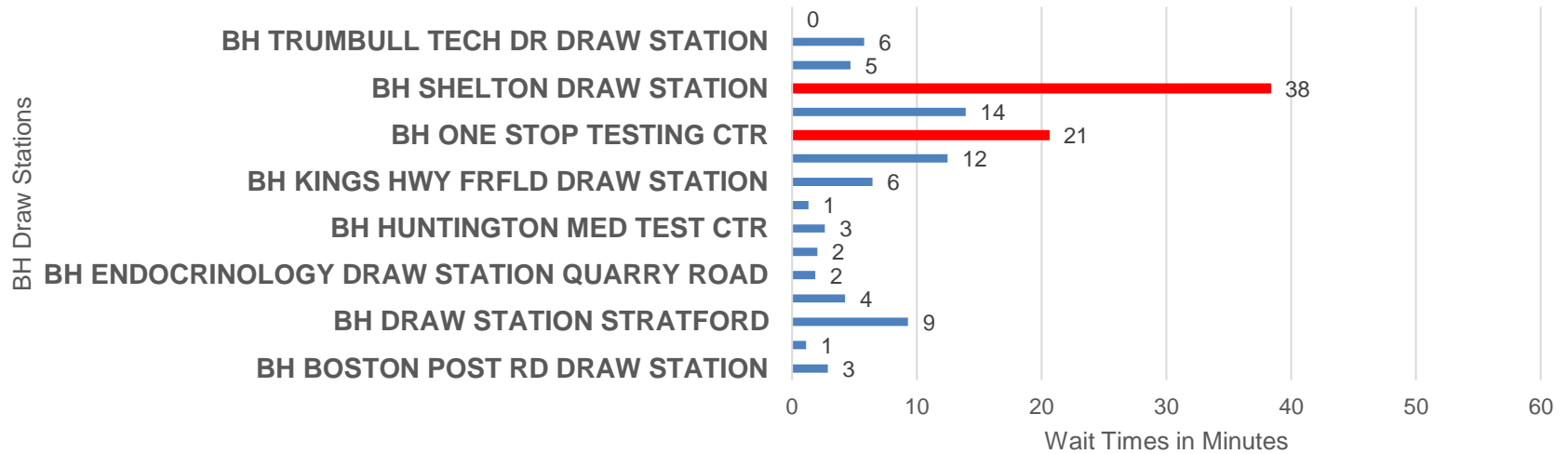
**Lab Outreach Pre-Analytical Quality Indicator Monthly
Review**

May 2023

Average Wait Times

Section	Lab Outreach/Phlebotomy
Phase	Pre-Analytical
Title	Average Wait Times
Objective	Calculate the average times from patient check-in/registration to the point of specimen collection for each DN. This metric ensures patient satisfaction and monitors phlebotomists' productivity in each draw station location.
Method	Report from Helix – YNHHS Lab Blood Draw Wait Times report
Definitions	The YNHHS Lab Blood Draw Wait Times report will be pulled monthly across all draw stations.
Expected Actions	To assess each draw station patient, wait-times vs the total number. A summary report will be prepared for the Director. Feedback will be provided to the draw stations.
Benchmarks	Overall rate for patient wait time goal for 15 minutes.

May



Summary:

January: Overall goal reached for the month. January metrics are BH draw station average 5 minutes overall. One Stop location wait-time was the only location outside of the 15 minute wait time goal.

February: Overall goal met for the month. February metrics are BH draw stations average 4 minutes overall. One Stop Testing Center was able to meet the patient wait-time of 15 minutes this month.

March: Overall goal met for the month. March metrics are BH stations average 5 minutes overall. Despite One Stop Testing high volume it was able to meet the patient wait-time of 15 minutes this month.

April: Overall goal met for the month. April metrics are BH draw stations average 5 minutes overall.

May: Overall goal met for the month. In May BH draw stations average 8 minutes wait-time with BH Shelton and BH One Stop having a noticeable increase in patient activity.

Butterfly Needle Usage Rate

Section	Lab Outreach/Phlebotomy
Phase	Pre-Analytical
Title	Butterfly Needle Usage Rate
Objective	Monitors the butterfly needle usage in the outpatient draw stations. Studies have shown that decreased butterfly needle usage results in less sample hemolysis, decreased costs, and less needlestick exposures.
Method	McKesson Supply Report or Infor Supply Report and Helix Reports – Collection Metrics monthly.
Definitions	We will be measuring the rate of butterfly needle usage vs total encounters.
Expected Actions	To assess each draw station butterfly usage rate. A summary report will be prepared for the Director. Feedback will be provided to the draw stations regarding butterfly usage rates.
Benchmarks	Overall rate for 20% butterfly needle usage rate.

Summary

January: Overall goal reached for the month. Across all the BH locations 20 boxes of butterfly needles were ordered over the course of the month.

February: Overall goal met for the month. Across all the BH locations 16 boxes of butterfly needles were ordered.

March: Overall goal met for the month. Across all the BH locations 16 boxes of butterfly needles were ordered.

April: Overall goal met for the month. Across all the BH locations 20 boxes of butterfly needles were ordered.

May: Overall goal met for the month. Across all the BH locations 16 boxes of butterfly needles were ordered resulting in a 3% decrease in butterfly usage from the previous month.

	Jan	Feb	Mar	Apr	May
Number of Butterfly Needles	1019	800	800	1000	800
Total Number of Patient Draws	9302	9223	10958	8888	9996
ALL DRAW STATIONS	11%	9%	7%	11%	8%

Cancel/Redraw Rates

Section	Lab Outreach/Phlebotomy
Phase	Pre-Analytical
Title	Cancel/Redraw Rates
Objective	Monitors the cancel/redraw rates in the draw stations by measuring the number of cancel/redraws to overall samples collected as a percentage rate.
Method	Report on Helix – Redraw Rejection Cancellation and Lab Outreach Collection Metrics reports monthly.
Definitions	This metric will identify any collection procedure noncompliance and identify any areas that phlebotomists need retraining in. The redraw rates will be pulled monthly and compared to the 2022 metrics.
Expected Actions	To assess draw station locations, cancel/redraw rates. A summary report will be prepared for the Director to be discussed monthly. Feedback will be provided to the draw stations for improvements.
Benchmarks	Overall redraw rate goal of 5%.

Summary:

January: Overall goal reached for the month. Majority of locations had a cancellation rate of 4% or less.

February: Overall goal met for the month. There has been an increase in redraw and cancellations across all the locations.

March: Overall goal met for the month. There has been an increase in redraw/cancellations at the same locations from February.

April: Overall goal not met for the month. There has been an increase in redraw/cancellations at 7 or the 16 locations for April.

May: Overall goal not met for the month. There has been an increase in redraw/cancellations at 8/16 locations for May, this month's cancel/redraw rate is 5.4%.

	Jan	Feb	Mar	Apr	May
BH BOSTON POST RD DRAW STATION	1.3%	2.5%	8.3%	4.9%	4.0%
BH DRAW STATION SILVER LANE TRUMBULL	3.1%	2.6%	2.6%	6.6%	3.0%
BH DRAW STATION STRATFORD	1.9%	1.7%	1.2%	3.2%	4.0%
BH DRAW STATION WHITE PLAINS TRUMBULL	1.0%	4.7%	2.0%	5.8%	4.8%
BH ENDOCRINOLOGY DRAW STATION QUARRY ROAD	2.6%	4.1%	3.9%	1.2%	7.7%
BH FAM MED DRAW STATION QUARRY ROAD	2.5%	4.3%	2.7%	1.2%	4.3%
BH HUNTINGTON MED TEST CTR	2.9%	4.9%	3.8%	3.4%	6.7%
BH INT MED DRAW STATION QUARRY ROAD	4.4%	6.8%	6.7%	9.0%	7.9%
BH KINGS HWY FRFLD DRAW STATION	2.1%	4.9%	7.3%	8.1%	2.5%
BH MILFORD DRAW STATION	3.4%	3.8%	4.3%	3.9%	4.3%
BH ONE STOP TESTING CTR	7.2%	7.1%	6.8%	11.3%	11.7%
BH PK AVE DRAW STATION	4.6%	7.2%	9.4%	9.4%	10.4%
BH SHELTON DRAW STATION	1.8%	2.4%	2.2%	4.2%	2.3%
BH SOUTHPORT TESTING CENTER	3.0%	4.4%	3.6%	2.5%	8.9%
BH TRUMBULL TECH DR DRAW STATION	2.3%	3.3%	3.1%	7.2%	4.7%
BH WESTPORT RIVERSIDE DRAW STATION	4.6%	0.0%	0.0%	0.0%	0.0%
ALL DRAW STATION AVERAGE	3.0%	4.1%	4.2%	5.1%	5.4%

Centrifuge Compliance

Section	Lab Outreach/Phlebotomy
Phase	Pre-Analytical
Title	Centrifuge Compliance
Objective	Ensures centrifuges in the draw station are functioning as intended which will result in better quality samples and decrease processing errors and specimen rejections.
Method	Auditing centrifuges and record service reports. BioMed (TriMedx) service reports will save in DN specific folders.
Definitions	Every month each DN will be audited on the number of compliant centrifuges and be given a compliance percentage. For example, if all 32 centrifuges in the YNH area are serviced before the due date then they will be at 100% compliance every month.
Expected Actions	The team will also be keeping centrifuge records up-to-date for compliance across all Delivery Networks. A summary report will be prepared for the Director.
Benchmarks	Overall centrifuge compliance goal of 100%.

Summary

January: Overall goal for the month was met. All centrifuges are update with inspections.

February: Overall goal for the month was met. All centrifuges are up-to-date.

March: Overall goal for the month was met. All centrifuges are up-to-date.

April: Overall goal for the month was met. All centrifuges are up-to-date.

May: Overall goal for the month was met. All centrifuges are up-to-date.

	Jan	Feb	Mar	Apr	May
Number of Compliant Centrifuges	19	19	19	19	19

Patient Satisfactory Survey

Section	Lab Outreach/Phlebotomy
Phase	Pre-Analytical
Title	Patient Satisfactory Survey
Objective	Achieving high levels of satisfaction is directly dependent on the high-quality patient care provided by phlebotomists in draw stations. In order to find out the pain-points of patients, whether there's any room for improvement, and what measures can be implemented to enhance services.
Method	Key Survey Reports and Press Ganey surveys scores
Definitions	The Key Survey report will be pulled monthly.
Expected Actions	To assess each draw station the patient experience surveys or scores. A summary report will be prepared for the Director. Feedback will be provided to the draw stations to make improvements to help increase patient satisfaction.
Benchmarks	Overall patient satisfaction rate 90%.

Summary

January: Overall goal not for the month. January patient satisfaction rate was 60%. Across a portion of the draw station locations 70% of patients were likely to recommend our facilities to a friend, 100% of patients felt our facilities were neat and clean, and 100% of patients felt they were treated with respect during their visit.

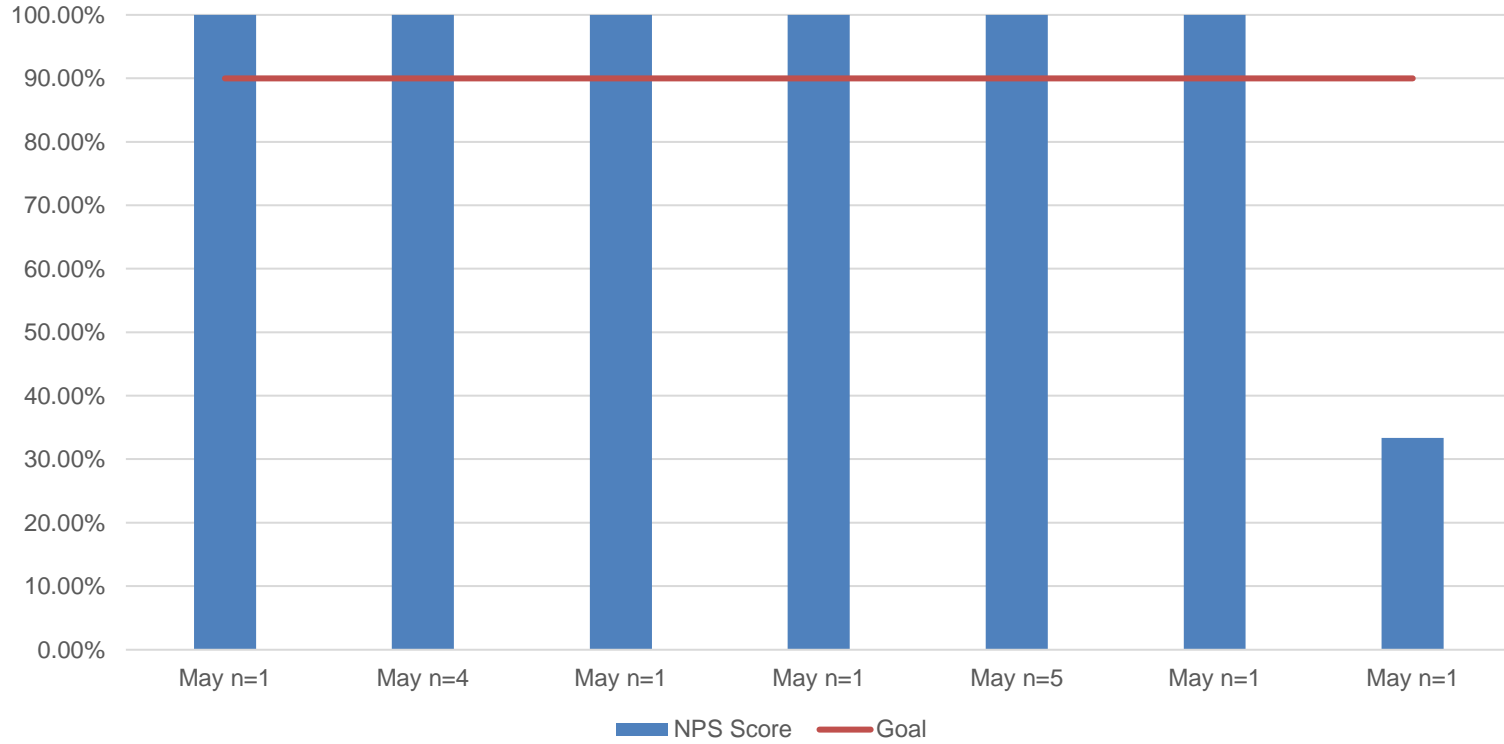
February: Overall goal for the month was met. Across the BH draw station locations 96% of patients were likely to recommend our facilities to a friend, 99% of patients felt our facilities were neat and clean, and 97% of patients felt they were treated with respect during their visit.

March: Overall goal for the month was met. Across the BH draw station locations 100% of patients were likely to recommend our facilities to a friend, 100% of patients felt our facilities were neat and clean, and 100% of patients felt they were treated with respect during their visit.

April: Overall goal for the month was met. Across the BH draw station locations 95% of patients were likely to recommend our facilities to a friend, 100% of patients felt our facilities were neat and clean, and 91% of patients felt they were treated with respect during their visit.

May: Overall goal for the month was not met. Across the BH draw station locations 89% of patients were likely to recommend our facilities to a friend, 94% of patients felt our facilities were neat and clean, and 89% of patients felt they were treated with respect during their visit.

May Patient Satisfaction Rate 89%



Transcription Accuracy Rate

Section	Lab Outreach/Phlebotomy
Phase	Pre-Analytical
Title	Transcription accuracy rate
Objective	Monitors the accuracy of the phlebotomist's transcriptions into EPIC from paper requisitions.
Method	Report run by Lab Billing department daily.
Definitions	Report is run by Lab Billing, and they randomly select up to 5 transcribed requisitions from each DN daily. The areas evaluated for accuracy will be the provider's name, tests ordered, scanning of req into EPIC and charges. Lab Billing will track the requisitions selected and errors in a separate spreadsheet on the YNH :/L shared drive.
Expected Actions	To assess each draw station transcription accuracy. A summary report will be prepared for the Director. Feedback will be provided to the draw stations.
Benchmarks	Overall rate for 90% transcription accuracy.

Summary

January: Overall goal reached for the month. For the month of January the # of providers transcribed correctly 102/103, sum of tests transcribed correctly 392/396 and # of requisitions scanned in EPIC 51/65.

February: Overall goal for the month has been met. For the month of February the # of providers transcribed correctly 60/60, sum of tests transcribed correctly 204/206 and # of requisitions scanned in EPIC 14/24.

March: Overall goal for the month has been met. For the month of March the # of providers transcribed correctly 116/116, sum of tests transcribed correctly 329/329 and # of requisitions scanned in EPIC 35/45.

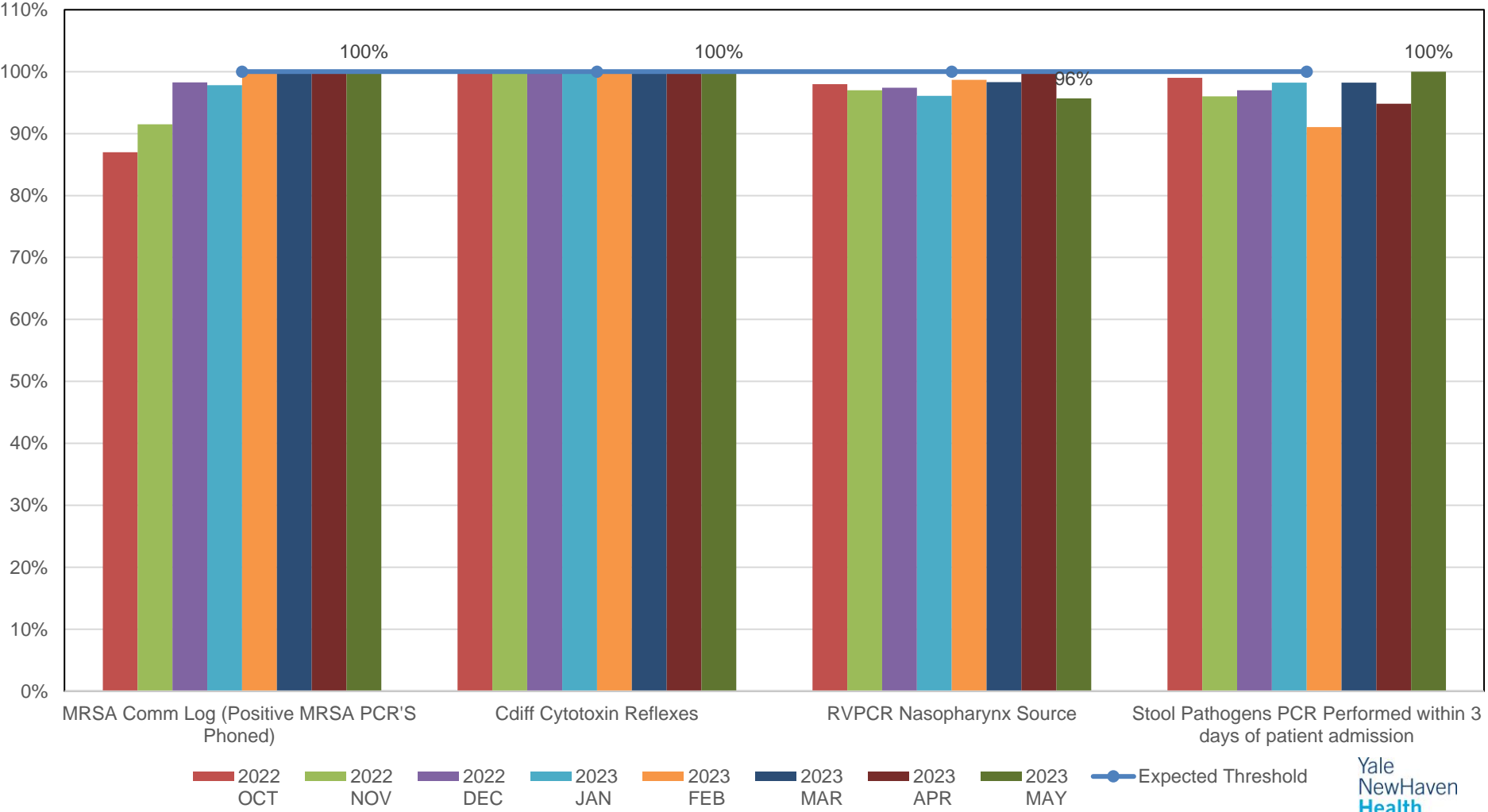
April: Overall goal for the month was met. For the month of April the # of providers transcribed correctly 101/101, sum of tests transcribed correctly 313/318 and # of requisitions scanned in EPIC 34/48.

May: Overall goal for the month was met. For the month of May the # of providers transcribed correctly 105/106, sum of tests transcribed correctly 389/391 and # of requisitions scanned in EPIC 103/103.

	Jan	Feb	Mar	Apr	May
ALL DRAW STATION AVERAGE	97%	96%	98%	96%	100%

Microbiology Quality Measures for FY 2023

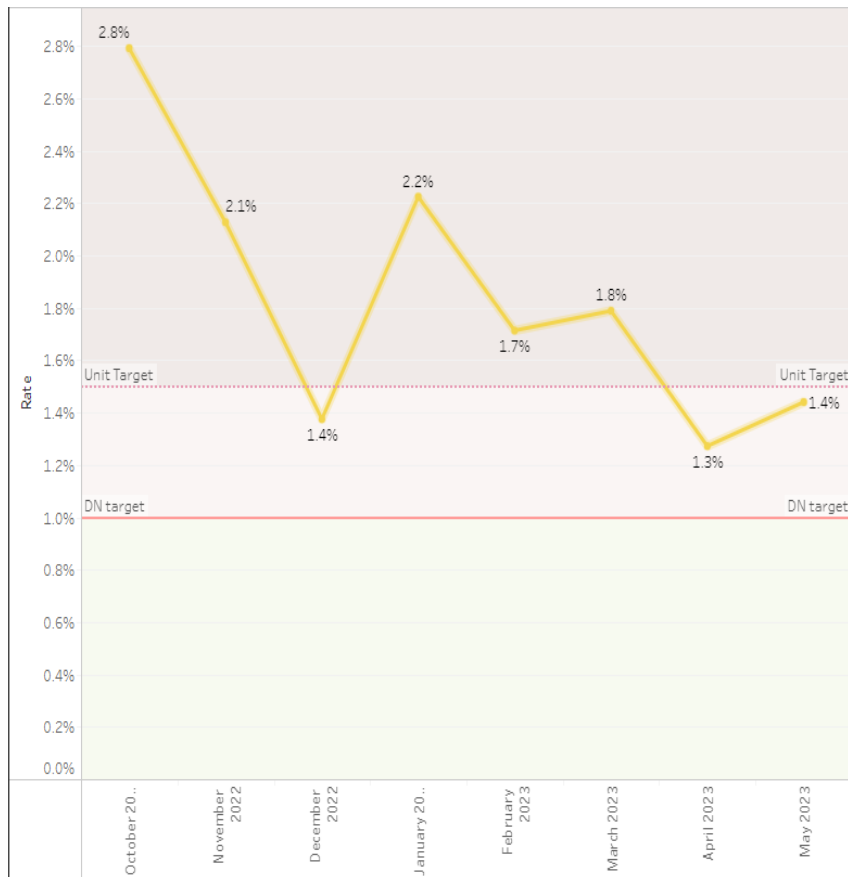
Microbiology Quality Assurance FY 2023



Microbiology test volumes

2023 Total V	Expected Threshold	October	November	December	January	February	March	April	May
MRSA		459	447	492	441	396	460	472	465
MRSA +	100%	39	47	58	46	46	65	30	41
Cdiff		155	130	148	168	161	156	170	181
Cdiff +	100%	28	22	29	24	25	18	19	29
RVP	100%	312	297	272	231	229	118	254	239
Stool		144	128	136	146	161	181	180	170
Stool Admitted	100%	49	49	67	56	56	57	77	66
Errors	< 5	4	0	1	0	2	0	2	2

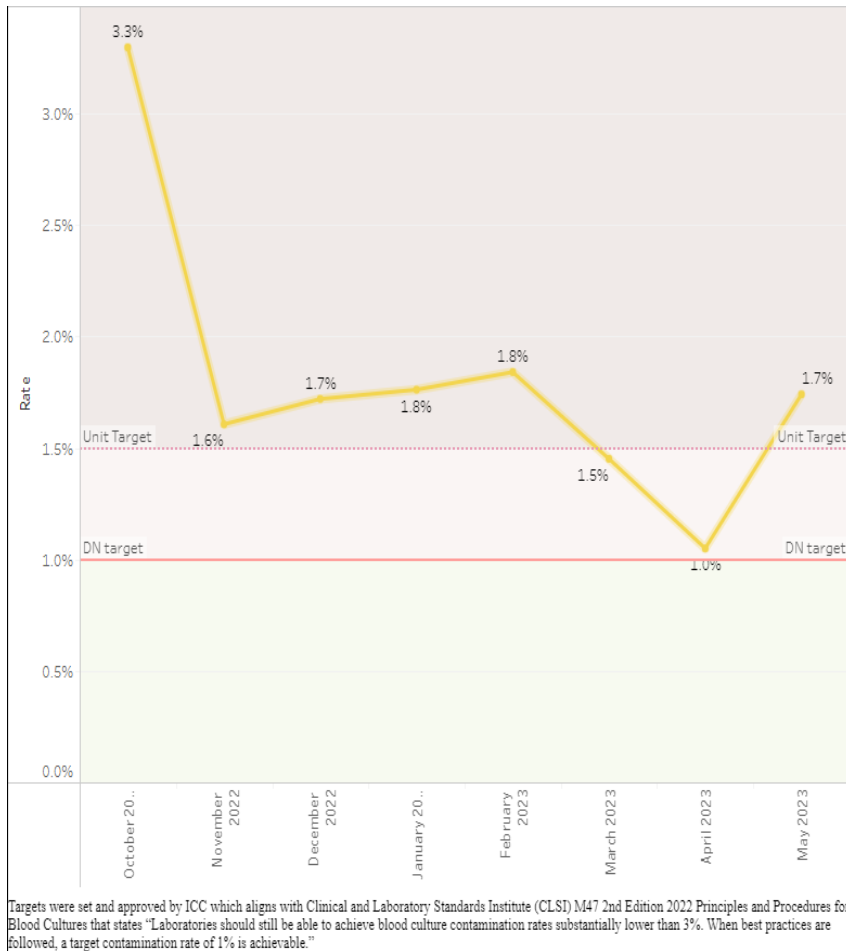
BH & MC Blood Culture Contamination Rate



- Total of 1,068 blood culture bottles were collected for both campuses.
- 20/ 1,068 were contaminated.
- Contamination rate was at 1.4%.

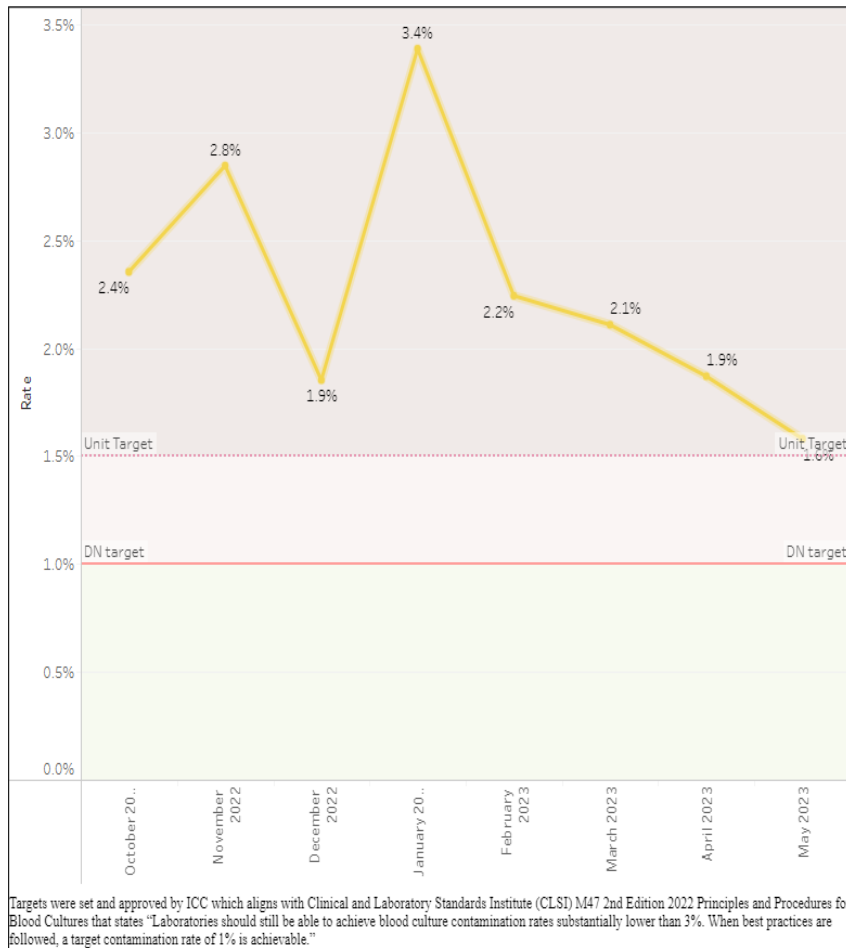
Targets were set and approved by ICC which aligns with Clinical and Laboratory Standards Institute (CLSI) M47 2nd Edition 2022 Principles and Procedures for Blood Cultures that states "Laboratories should still be able to achieve blood culture contamination rates substantially lower than 3%. When best practices are followed, a target contamination rate of 1% is achievable."

BH Blood Culture Contamination Rate(ED only)



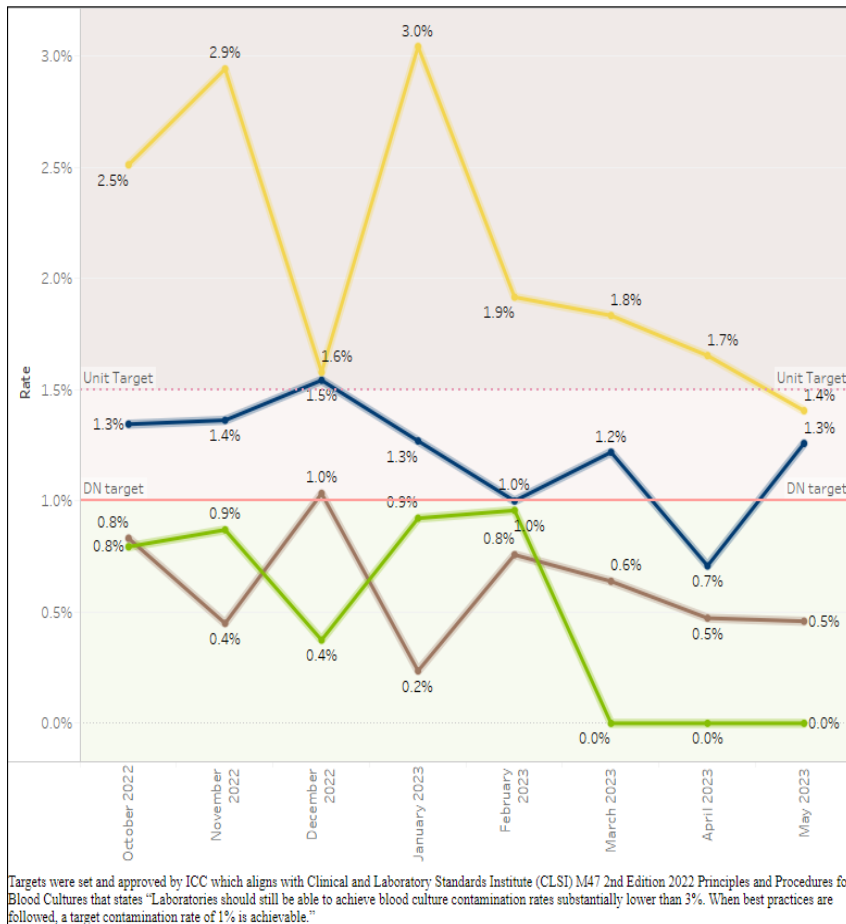
- BH ED had a total of 746 blood culture bottles collected.
- 13/ 746 were contaminated.
- 1.7% contamination rate for ED only.

BH Blood Culture Contamination Rate (excluding ED)

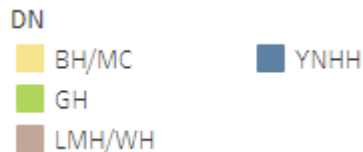


- All BH units (excluding ED) had a total of 107 blood culture bottles collected.
- 6/ 107 were contaminated.
- 1.6% contamination rate for all BH units excluding ED.

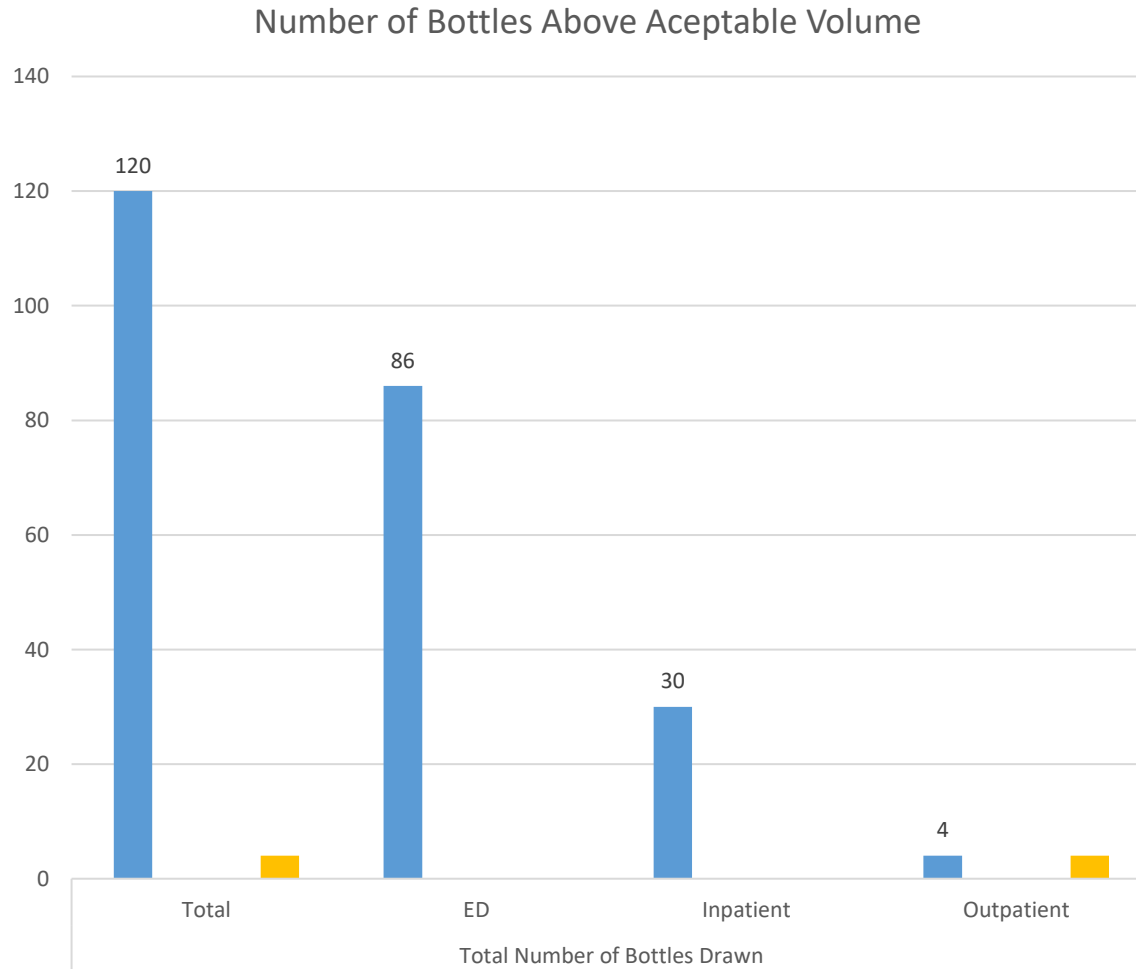
Blood culture Contamination Rate DN's Comparison



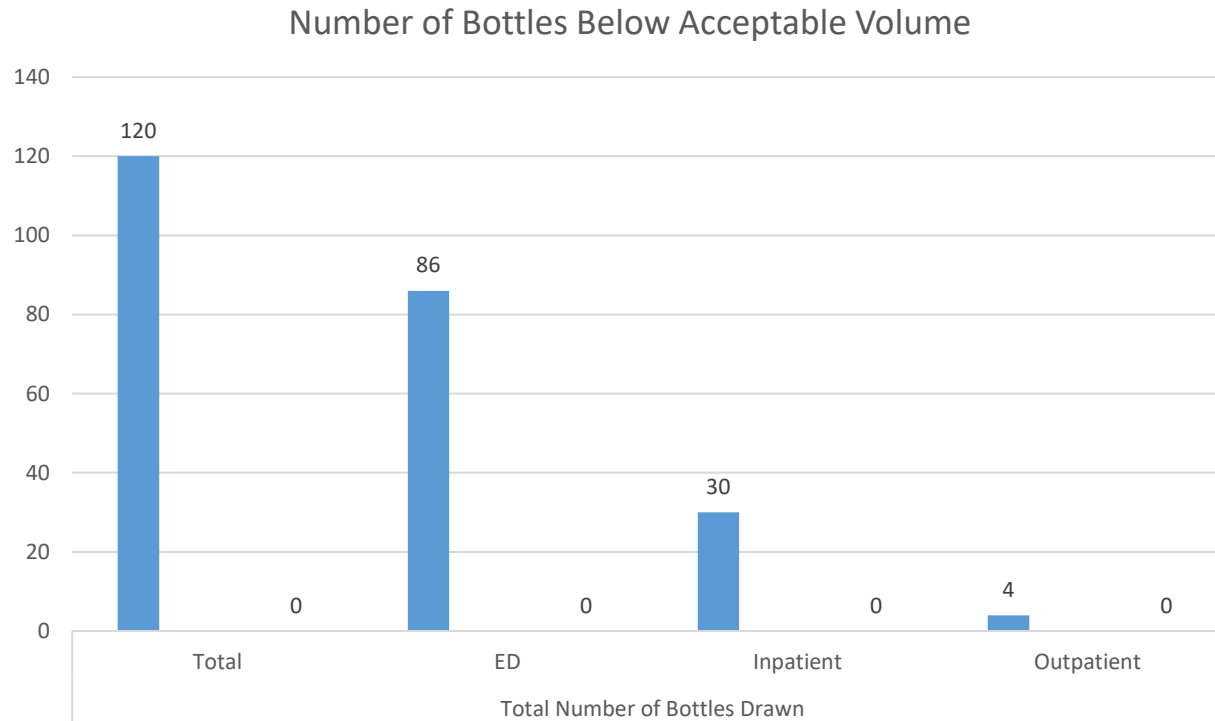
- BH = 1.4%
- YNHH = 1.3%
- LMH/WH = 0.5 %
- GH = 0.0%.



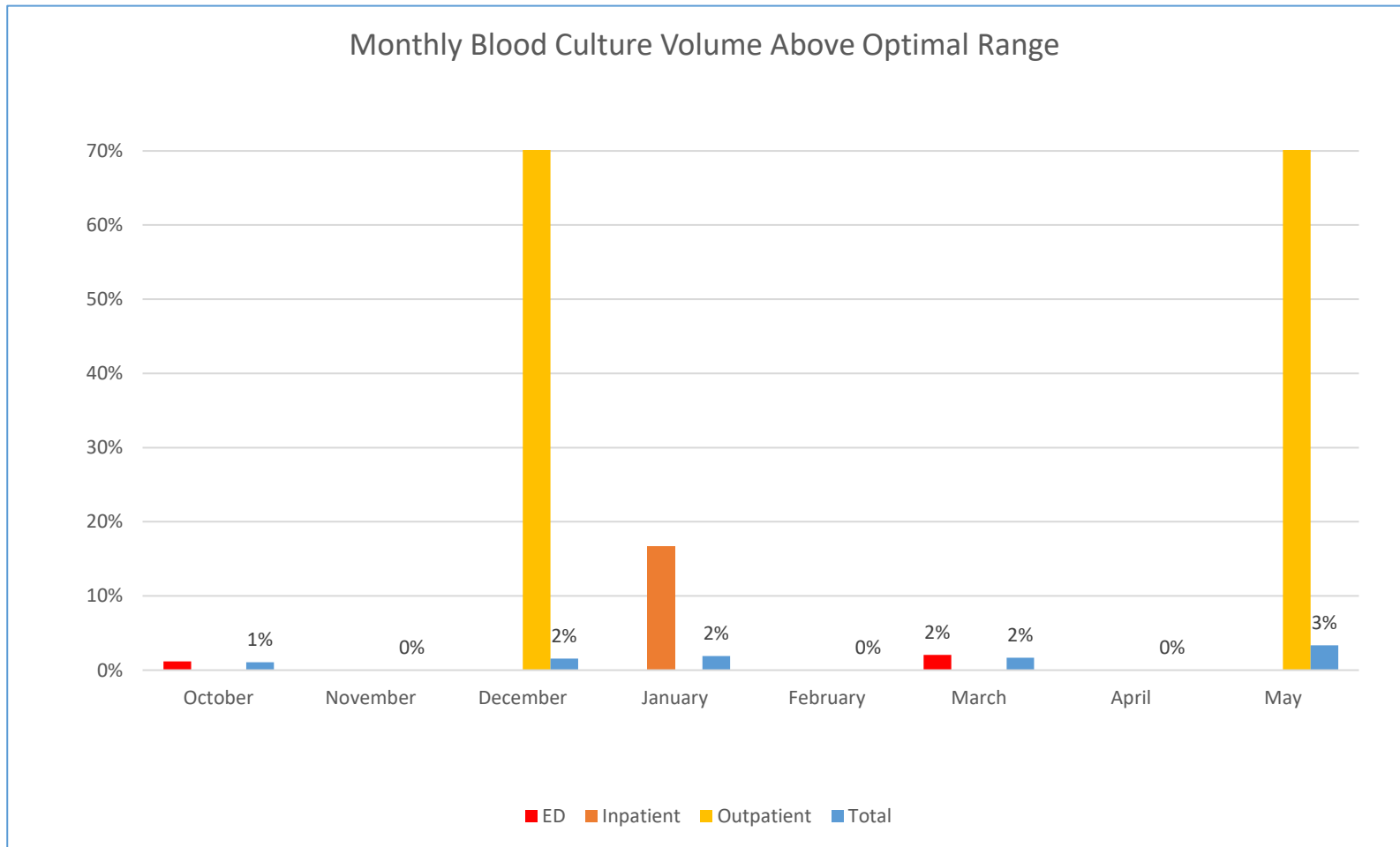
Blood Culture Bottle Volumes – Above Optimal for May 2023



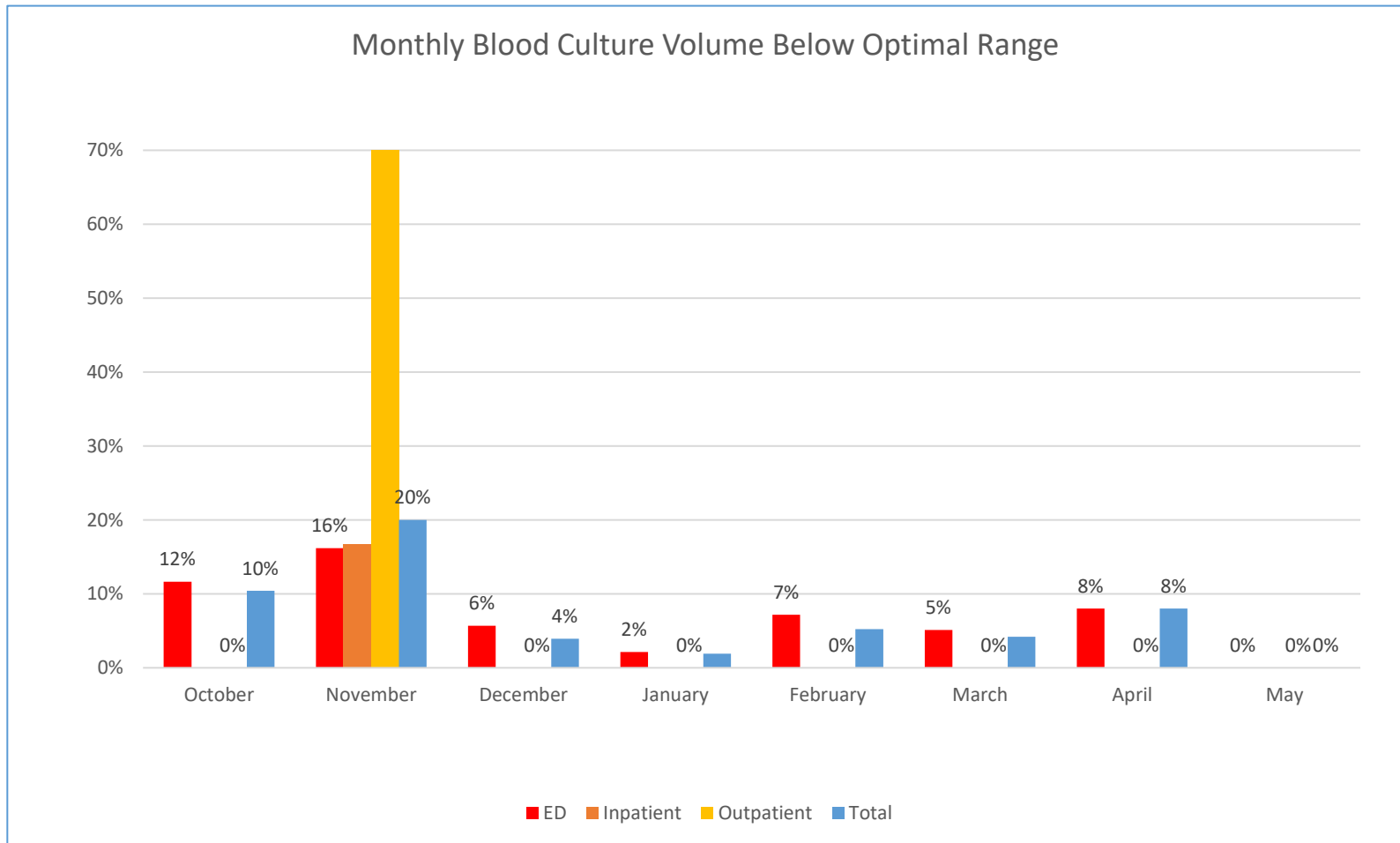
Blood Culture Bottle Volumes – Below Optimal for May 2023



FY 2023 Blood Culture Volume Above Optimal Range



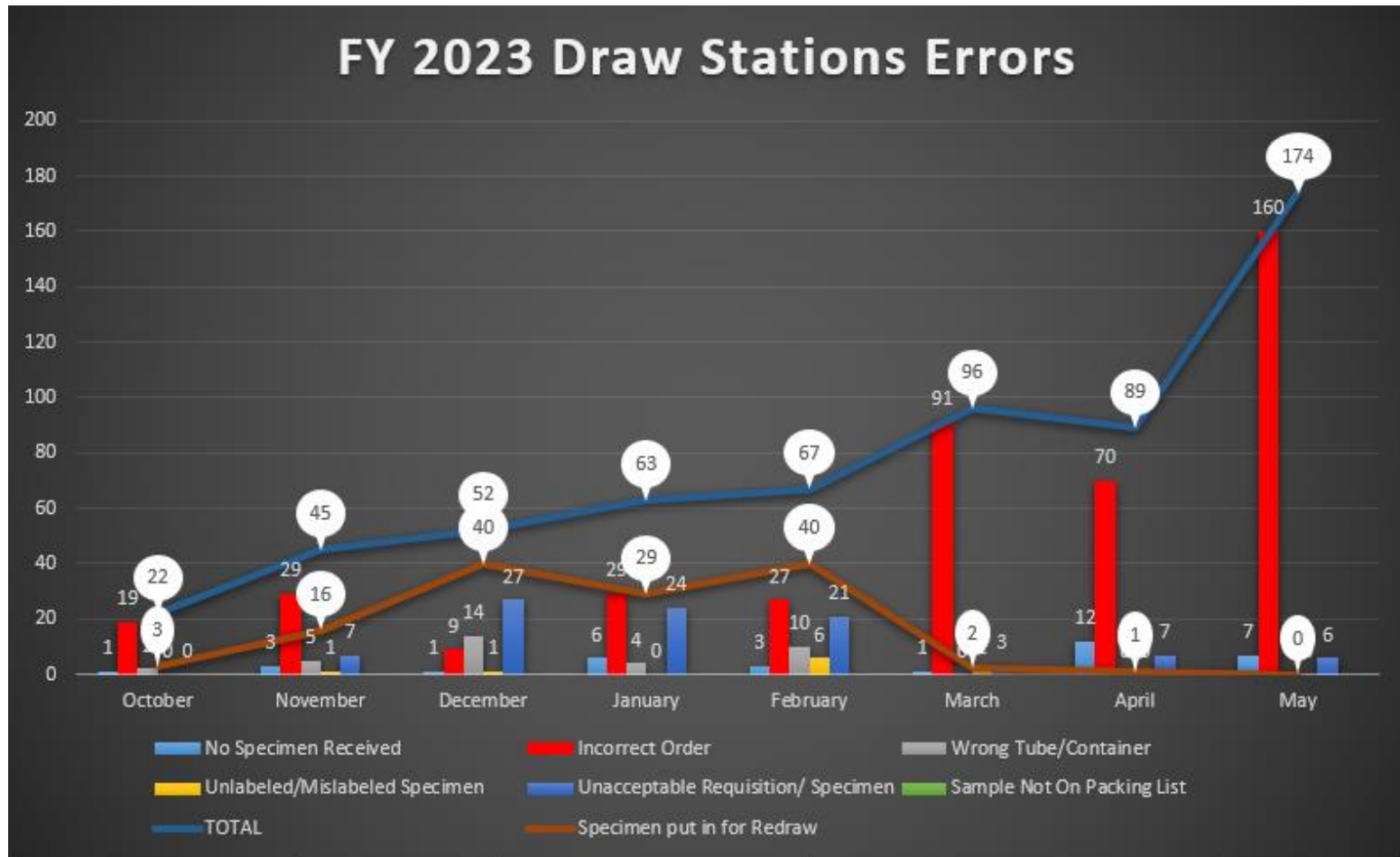
FY 2023 Blood Culture Volume Below Optimal Range



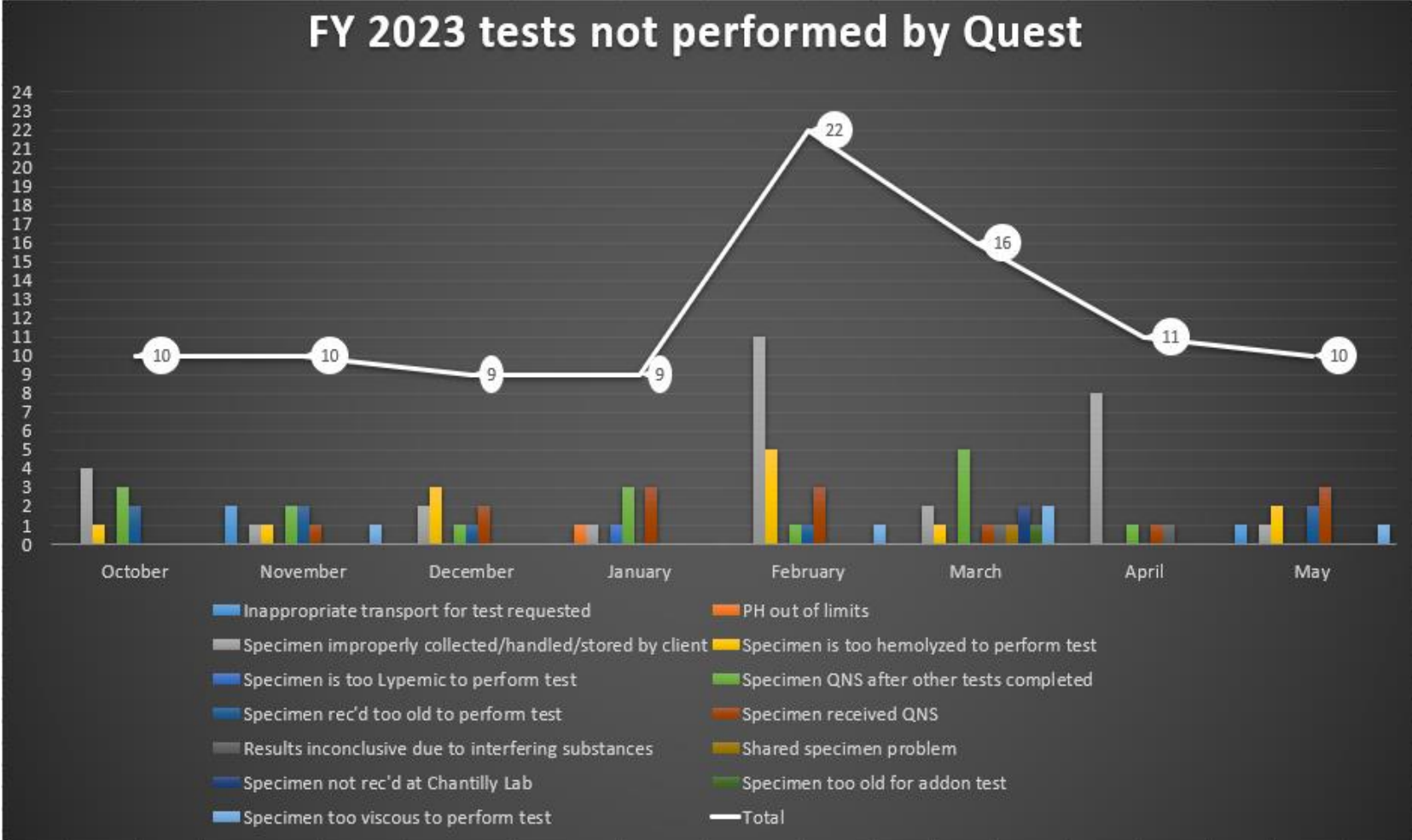
Micro Molecular Statistics

Date	Tests	Sample size	Positive Count	% Positivity	Lower Limit	Upper Limit	Environment Monitoring	Epidemiological Trends	Evaluation Notes
May-23	Chlamydia trachomatis, NAAT	676	27	4.00%	2%	7%	Negative	None	None
May-23	GBS PCR Pen Allergic	20	5	25.00%	0%	48%	Negative	None	None
May-23	GBS PCR Pen NonAllergic	99	28	28.30%	16%	33%	Negative	None	None
May-23	Group A Strep PCR	681	142	20.90%	1%	27%	Negative	None	None
May-23	HSV 1 AND 2 DIRECT PCR,	31	10	32.30%	2%	54%	Negative	None	None
May-23	Influenza A/B RNA, NAAT	448	6	1.30%	0%	20%	Negative	None	None
May-23	Influenza/RSV by RT-PCR	1,365	24	1.80%	0%	17%	Negative	None	None
May-23	MRSA Colonization Status	402	41	10.20%	5%	18%	Negative	None	None
May-23	MRSA/SAUR Blood PCR	28	10	35.70%	15%	52%	Negative	None	None
May-23	MTB w/rflx Rifampin PCR	9	0	0.00%	0%	84%	Negative	None	None
May-23	N. gonorrhoeae, NAAT	676	9	1.30%	1%	3%	Negative	None	None
May-23	Resp Virus PCR Panel	94	23	24.50%	4%	54%	Negative	None	None
May-23	SARS CoV-2 (COVID-19) RNA	2,394	89	3.70%	0%	20%	Negative	None	None
May-23	Stool Pathogens PCR	138	17	12.30%	0%	22%	Negative	None	None
May-23	Varicella-Zoster Direct PCR	6	2	33.30%	10%	63%	Negative	None	None

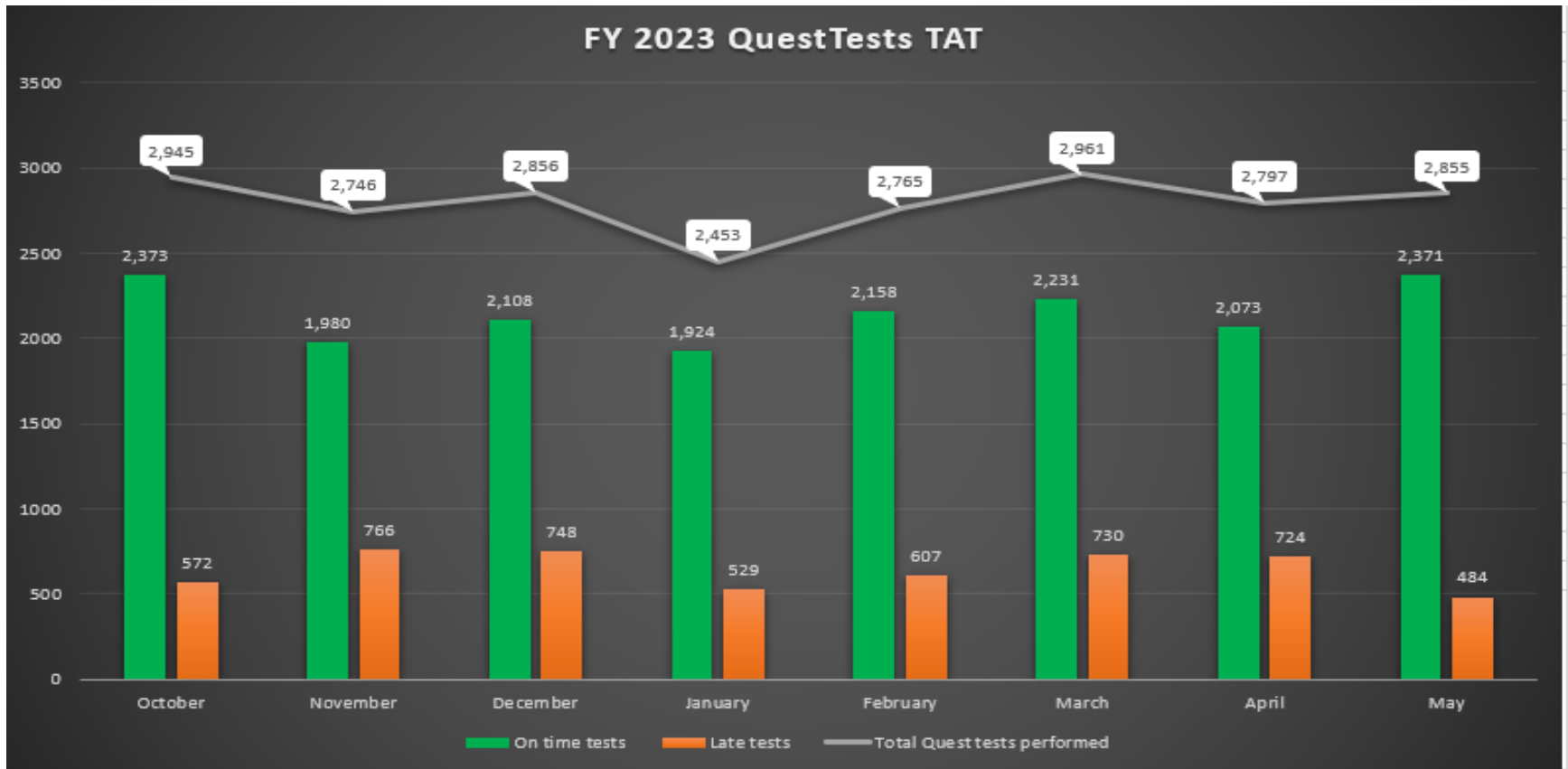
FY2023 Draw Station Errors



Quest Rejected Tests

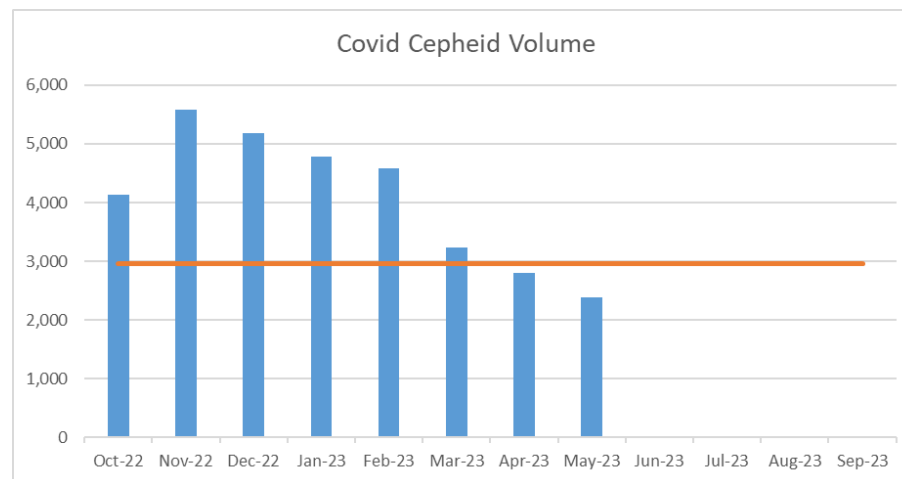
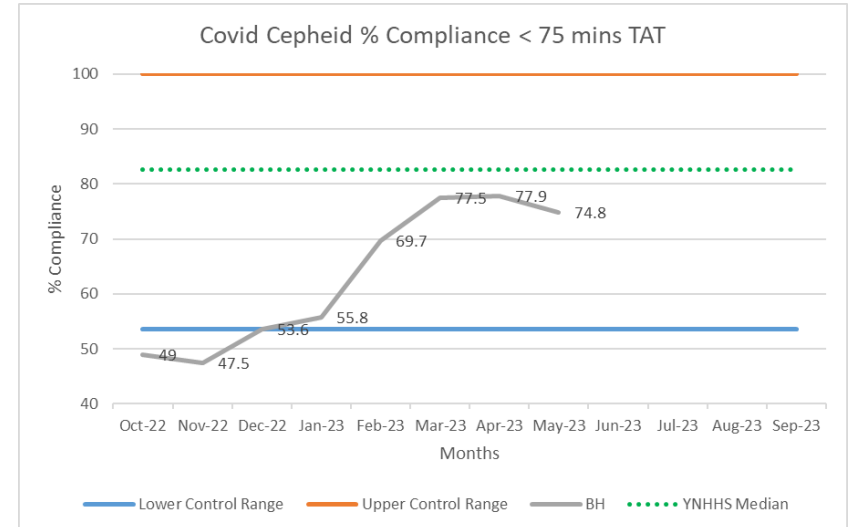
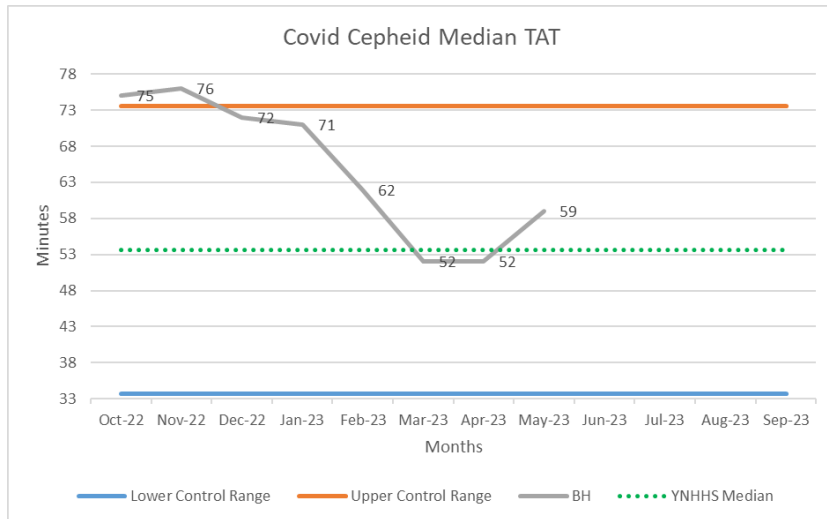


Quest TAT



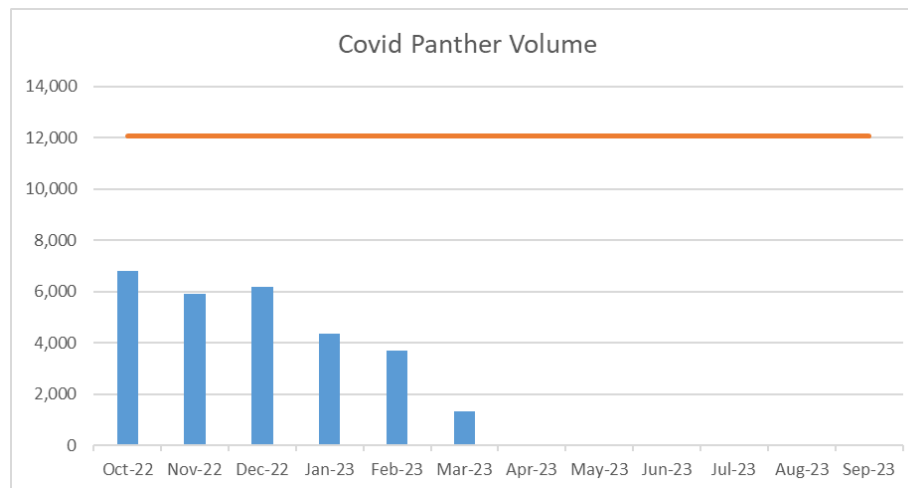
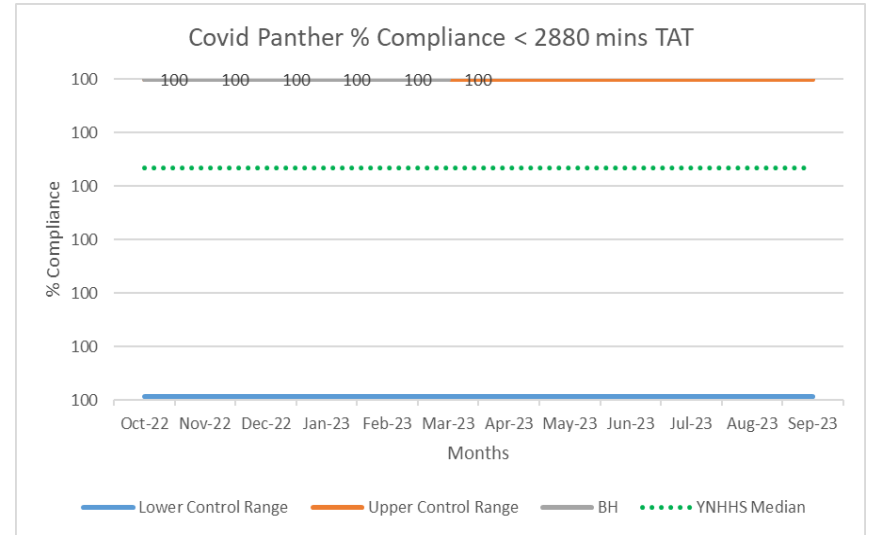
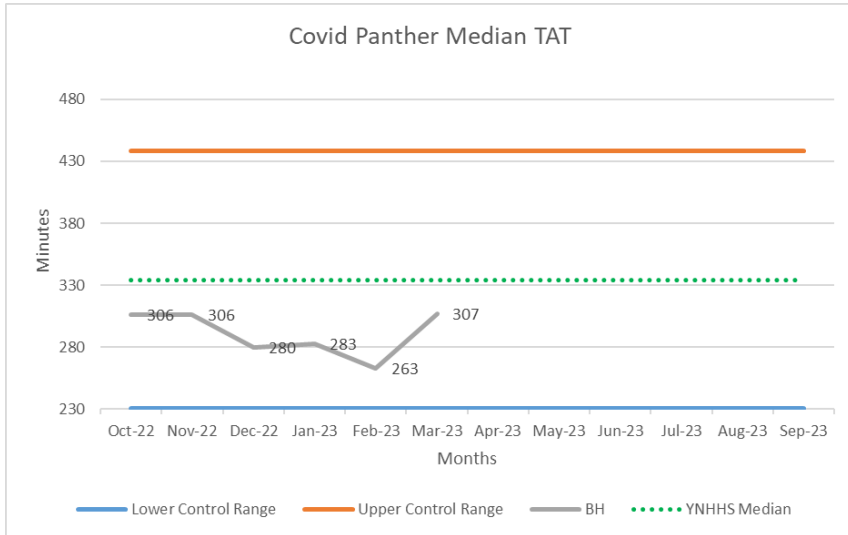
The TAT calculations include accessions that have been through the "test in question" process, or tests that have been corrected, repeated, reflexed, confirmed, or added on after the original order.

Bridgeport Campus – COVID-19 Cepheid



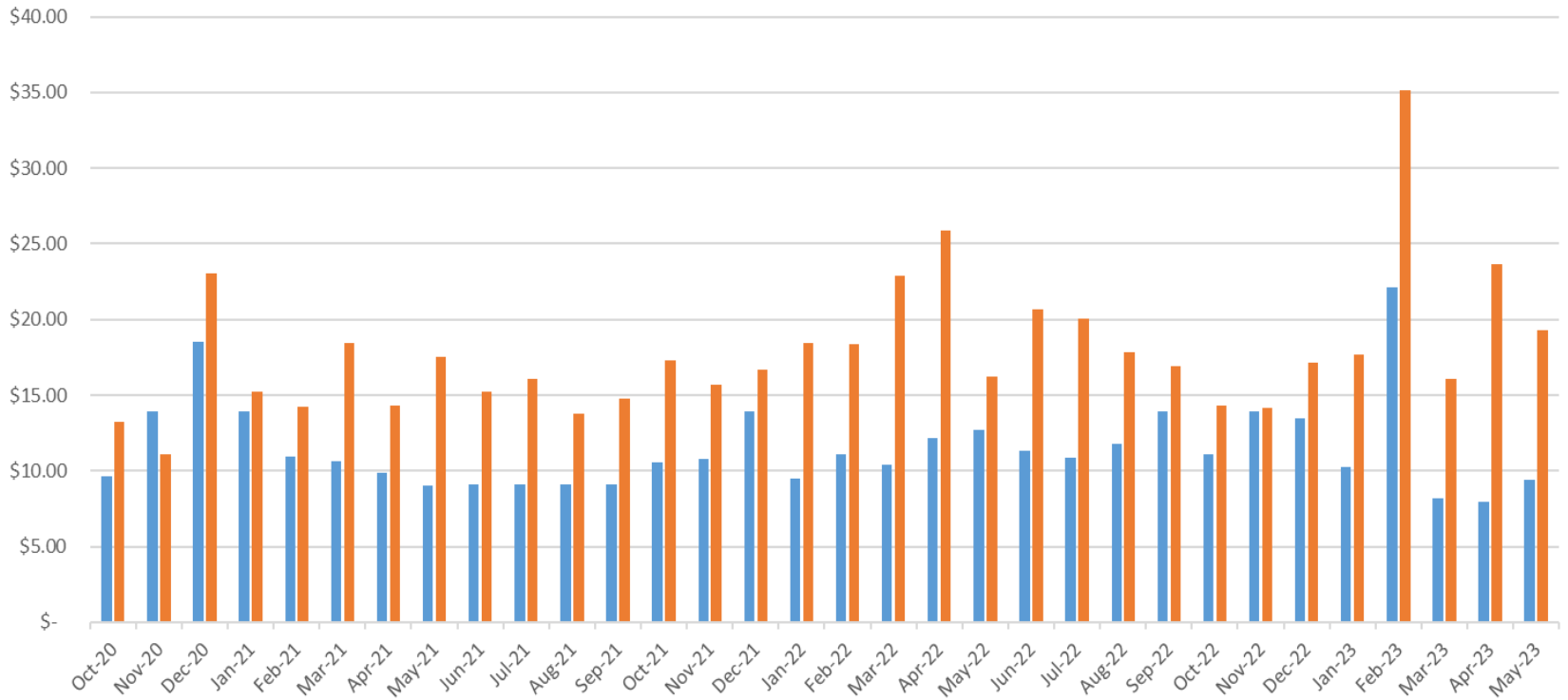
Bridgeport Campus – COVID-19 Panther

This has been discontinued



Cost Per Billable

FY2021 - FY2023 Cost Per Reportable (Total # of Expenses/# of Tests)
Bridgeport vs. Milford



	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	23-Feb	Mar-23	Apr-23	May-23
■ BH Cost per billable	\$9.6	\$13.0	\$18.0	\$13.0	\$10.0	\$10.0	\$9.9	\$9.0	\$9.0	\$9.0	\$9.0	\$9.0	\$10.5	\$10.0	\$13.0	\$9.5	\$11.0	\$10.0	\$12.0	\$12.0	\$11.0	\$10.0	\$11.0	\$13.0	\$11.0	\$13.0	\$13.0	\$10.27	\$22.09	\$8.2	\$7.9	\$9.4
■ MC Cost per billable	\$13.0	\$11.0	\$23.0	\$15.0	\$14.0	\$18.0	\$14.0	\$17.0	\$15.0	\$16.0	\$13.0	\$14.0	\$17.0	\$15.0	\$16.0	\$18.0	\$18.0	\$22.0	\$25.0	\$16.0	\$20.0	\$20.0	\$17.0	\$16.0	\$14.0	\$14.0	\$17.0	\$17.66	\$35.18	\$16.1	\$23.62	\$19.3

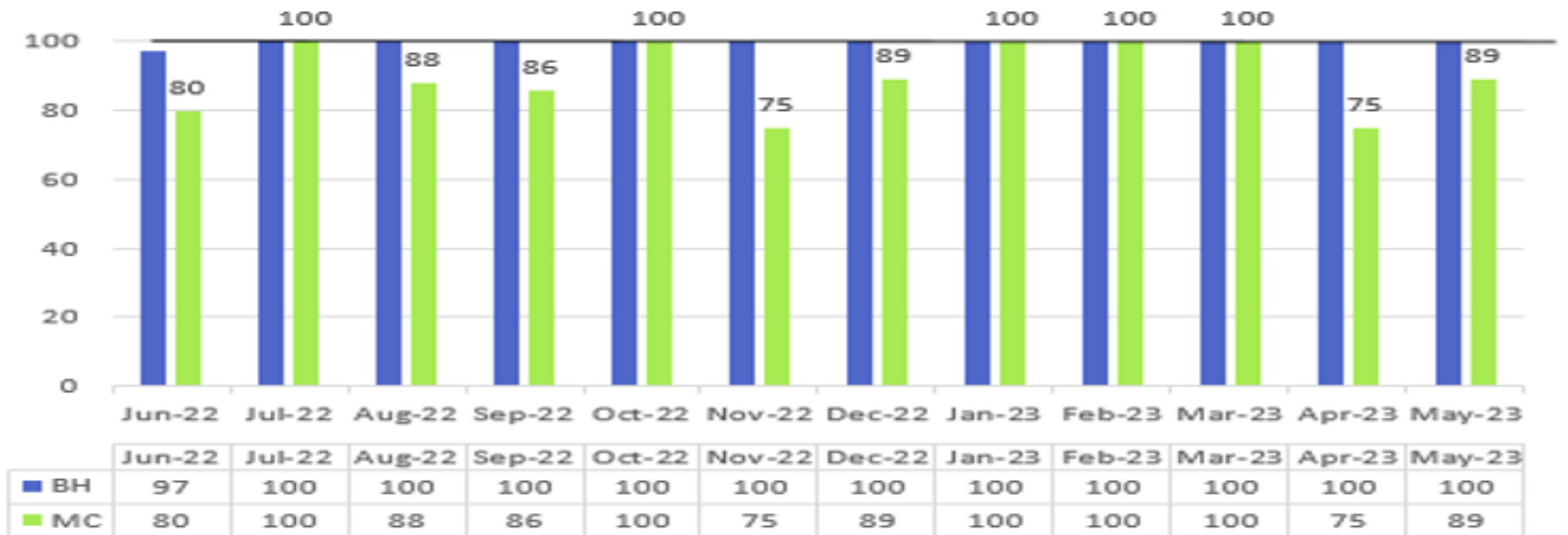
■ BH Cost per billable ■ MC Cost per billable

Lab General

BH CL07D0099572/CAP1191901
 MCBH CL07D0097265/CAP 1189901

Quality Metric	Target	Sample size	Current performance	Previous month	Patient Impact	Corrective action and follow-up	Responsible
CAP PT Turnaround within 30 days	90%	BC	100% (23 surveys)	100%	None	BH met benchmark, MC slightly below. Will continue to <u>monitor</u>	Lab management and administration
		MC	89% (8/9 surveys)	75%			

CAP Proficiency Test Completion <30 days
Benchmark 90%



■ BH ■ MC

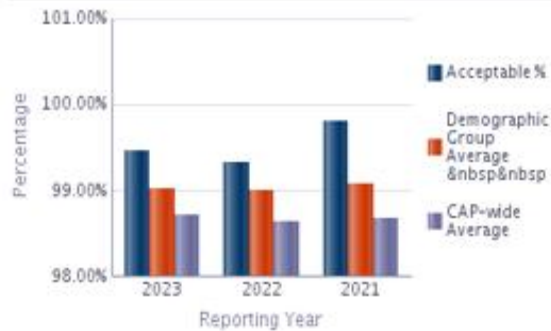
Lab General - Bridgeport

Campus	Analytes	Performance	Previous Month	Patient impact	Corrective actions
BH	258/259	99.6%	99.6%	None	None required for benchmark-all surveys satisfactory. Each section investigates failed/unsatisfactory performances.

Proficiency Testing Performance Overview ?

Select View: Graph ▾

Acceptable Proficiency Testing by Year and Group



21 Mailings with New Evaluations	0 Mailings with Revised Evaluations	0 Analytes with Unsatisfactory PT	0 Analytes with Unsuccessful PT	0 Analytes with Repeat Unsuccessful PT
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Reporting Year	Acceptable %	Demographic Group Average ?	CAP-wide Average
2023	99.45%	99.02%	98.71%
2022	99.32%	99.00%	98.63%
2021	99.81%	99.07%	98.67%

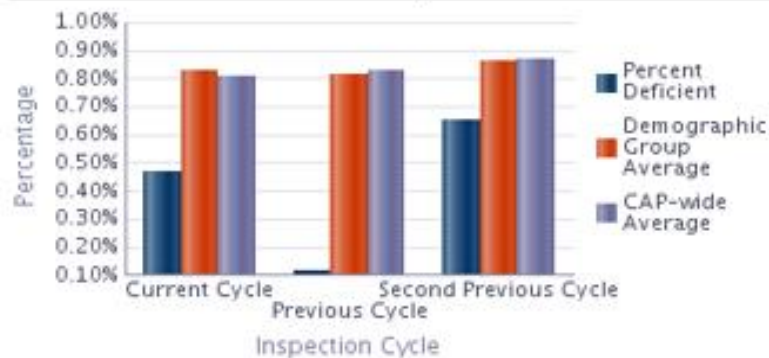
Lab General

Accreditation Performance Overview

Accreditation Performance Overview ?

Select View: Graph ▼

Deficient Accreditation Performance by Cycle and Group



Last Accreditation Decision	Date
Accredited	5/9/2022

Current Cycle Inspection(s)			
Date	Inspection Type	% Deficient	Recurring Deficiencies
3/29/2022	Routine	0.47	1

Period Name	Percent Deficient	Demographic Group Average ?	CAP-wide Average
Current Cycle	0.47%	0.82%	0.80%
Previous Cycle	0.11%	0.82%	0.82%
Second Previous Cycle	0.65%	0.86%	0.87%

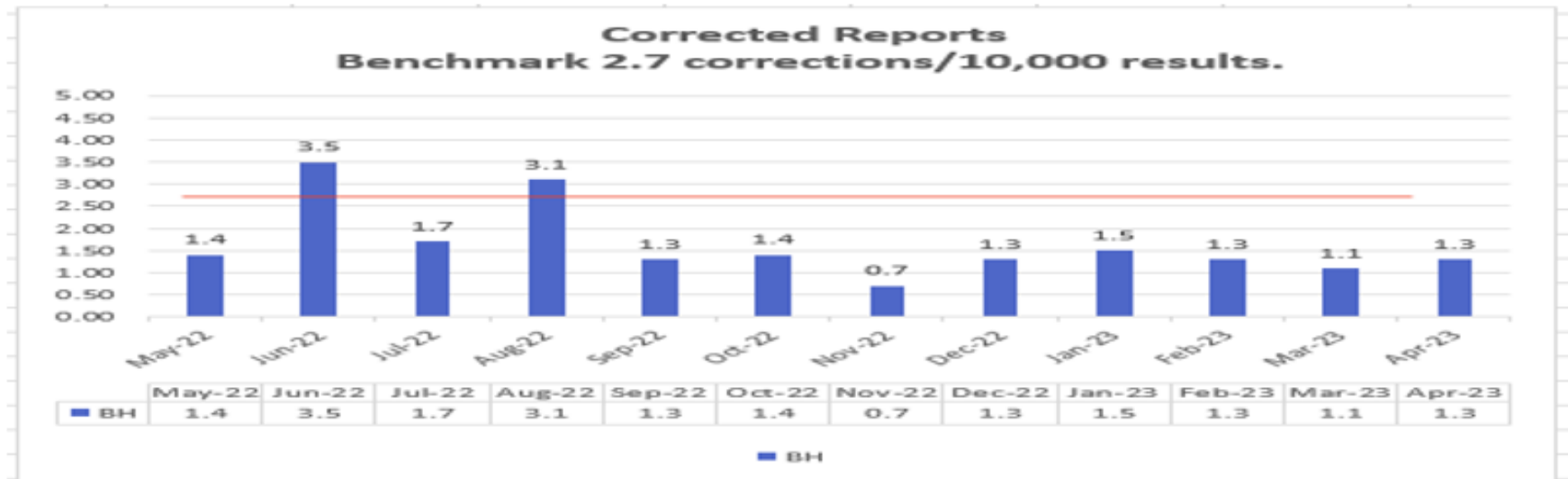
Lab General

BH Corrected Reports
Target <2.7/10,000 results

*May & June to be reported next month



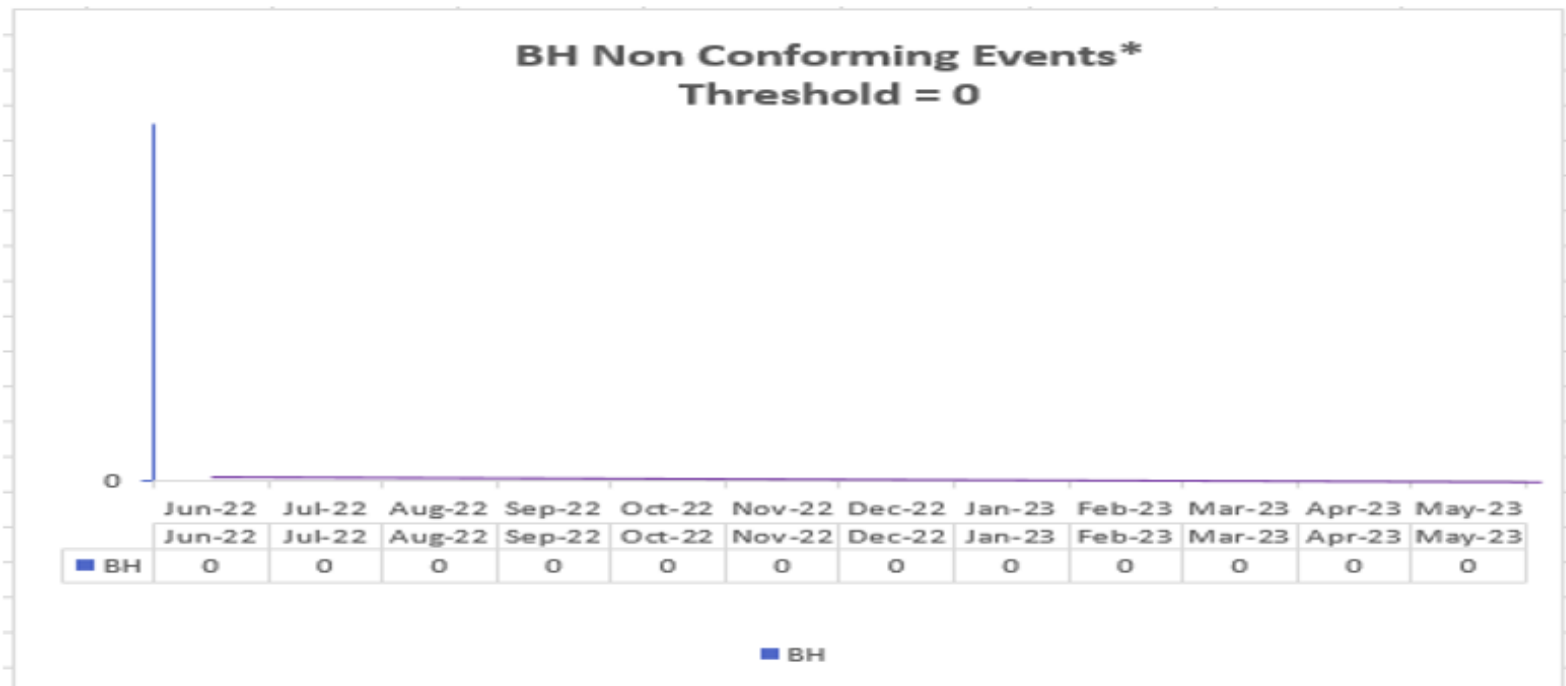
Quality Metric Corrected Reports	Sample size (tests)	Current performance	Previous month	Patient Impact	Corrective action and follow-up	Responsible
BC Lab Corrected reports	202,478 tests	*(%)	1.3 (0.013%)	Corrected reports can lead to adverse patient outcomes	None needed benchmark met	Laboratory administration



June 2022 above threshold due to courier transport issue identified late which resulted in specimens needing recollection after verification of results.
 August 2022 above threshold due to electrode ISE malfunction requiring patients to be re-run with 38 corrected results.

BH Non-Conforming Events (Department of Clinical Pathology only)

Quality Metric	Target	Sample size	Current performance	Previous month	Patient Impact	Corrective action and follow-up	Responsible Staff
Nonconforming events BH	0	202,478 Tests	0	0	None	None needed	Lab administration and management



* Definition of Non Conforming events for this Quality Measure includes irreplaceable samples only

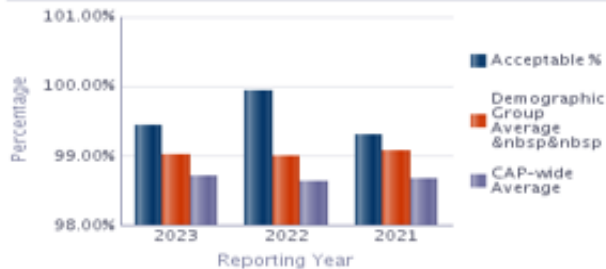
MCBH Proficiency Testing Performance Target 98%

Campus	Analytes	Performance	Previous Month	Patient impact	Corrective actions
MCBH	26/26	100%	99.6%	None	1 analyte (BUN) unacceptable, after recalibration new CAP material was rerun and result was acceptable

Proficiency Testing Performance Overview

Select View: Graph

Acceptable Proficiency Testing by Year and Group



4 Mailings with New Evaluations	0 Mailings with Revised Evaluations	0 Analytes with Unsatisfactory PT	0 Analytes with Unsuccessful PT	0 Analytes with Repeat Unsuccessful PT
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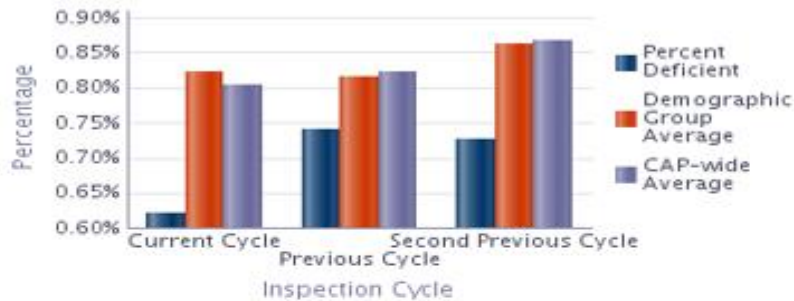
Reporting Year	Acceptable %	Demographic Group Average	CAP-wide Average
2023	99.44%	99.02%	98.71%
2022	99.94%	99.00%	98.63%
2021	99.30%	99.07%	98.67%

MCBH Accreditation Performance Overview

Accreditation Performance Overview


Select View: Graph

Deficient Accreditation Performance by Cycle and Group



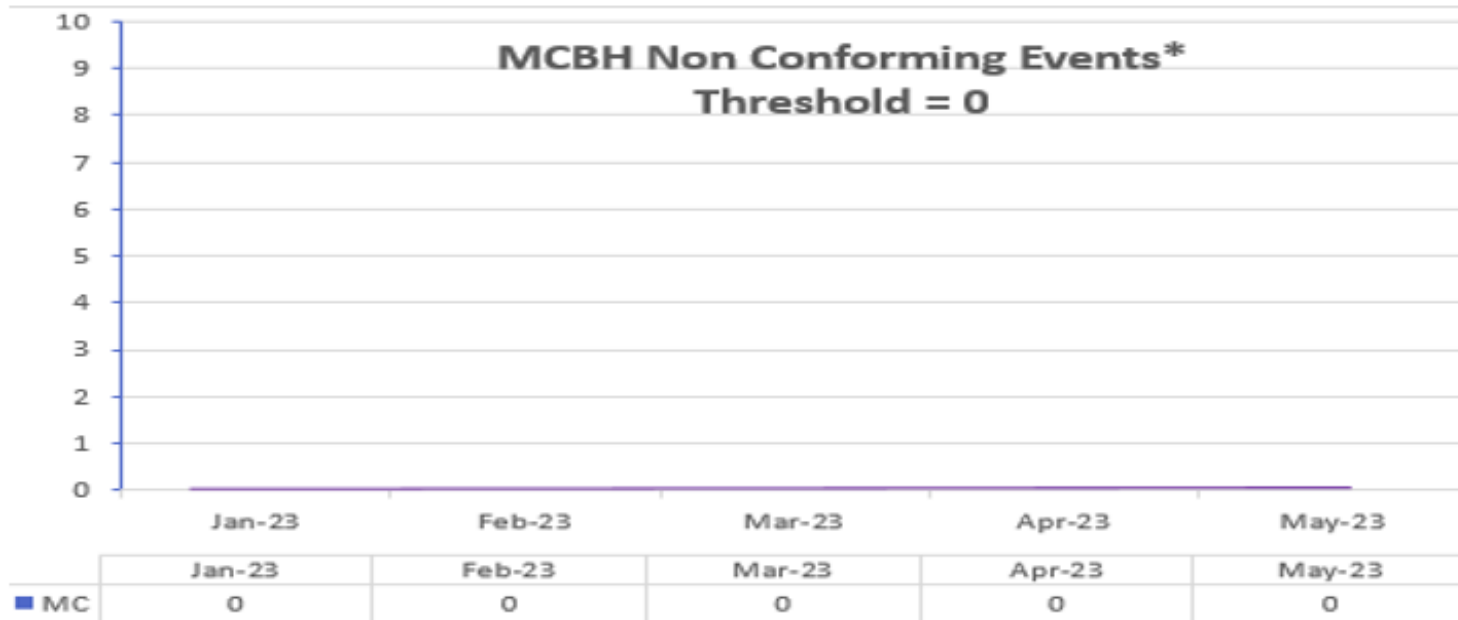
Last Accreditation Decision	Date
Accredited	5/9/2022

Current Cycle Inspection(s)			
Date	Inspection Type	% Deficient	Recurring Deficiencies
3/28/2022	Routine	0.62	0

Period Name	Percent Deficient	Demographic Group Average 	CAP-wide Average
Current Cycle	0.62%	0.82%	0.80%
Previous Cycle	0.74%	0.82%	0.83%
Second Previous Cycle	0.73%	0.86%	0.86%

MCBH Non-Conforming Events (Department of Clinical Pathology)

Quality Metric	Target	Sample size	Current performance	Previous month	Patient Impact	Corrective action and 593follow-up	Responsible Staff
Nonconforming events MCBH	0	Tests	0	0	None	None needed	Lab administration and management



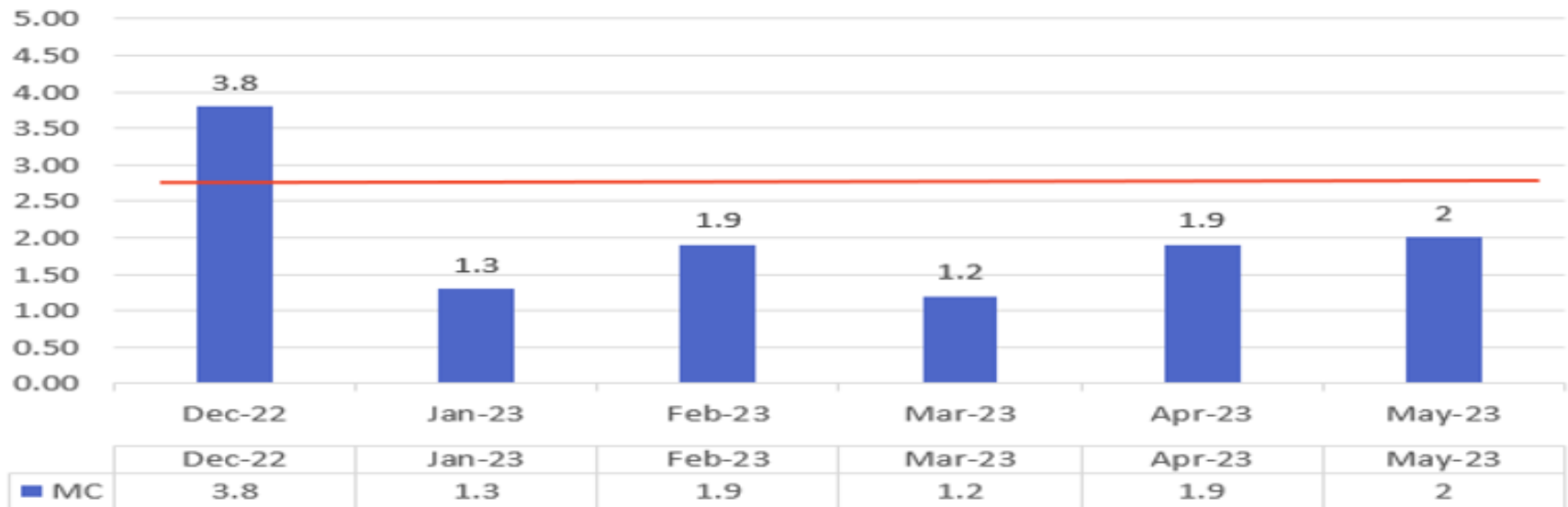
* Definition of Non Conforming events for this Quality Measure includes irreplaceable samples only.

MCBH Corrected Reports

Target <2.7/10,000 results

Quality Metric Corrected Reports	Sample size (tests)	Current performance	Previous month	Patient Impact	Corrective action and follow-up	Responsible
MCBC Lab Corrected reports	19,517	2.0 (0.20%)	1.9 (0.019%)	Corrected reports can lead to adverse patient outcomes	None needed benchmark met *f/u from April-there were 0 blood gas corrections in May due to verifying before patient resp. data scanned.	Laboratory administration

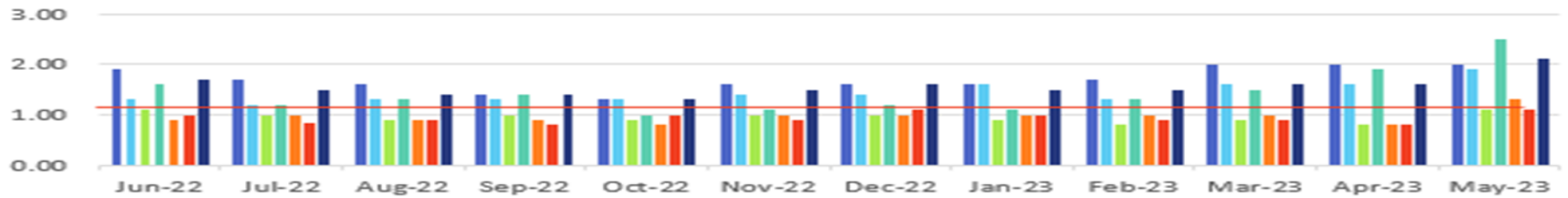
MCBH Corrected Reports
Benchmark 2.7 corrections/10,000 results.



■ MC

Lab General

% Rejected Specimens
<3.5%* Literature Benchmark
1.1% YNHHS Benchmark.

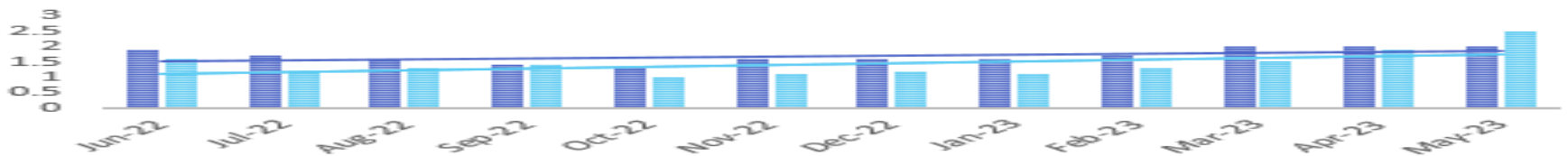


	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23
BH	1.9	1.7	1.6	1.4	1.3	1.6	1.6	1.6	1.7	2	2	2
GH	1.3	1.2	1.3	1.3	1.3	1.4	1.4	1.6	1.3	1.6	1.6	1.9
LMH	1.1	0.99	0.9	1	0.9	1	1	0.9	0.8	0.9	0.8	1.1
MC	1.6	1.2	1.3	1.4	1	1.1	1.2	1.1	1.3	1.5	1.9	2.5
SRC	0.9	0.98	0.9	0.9	0.8	1	1	1	1	1	0.8	1.3
WH	1	0.85	0.9	0.8	1	0.9	1.1	1	0.9	0.9	0.8	1.1
YH	1.7	1.5	1.4	1.4	1.3	1.5	1.6	1.5	1.5	1.6	1.6	2.1

■ BH ■ GH ■ LMH ■ MC ■ SRC ■ WH ■ YH

*Rooper L. Carter, J., Hargrove, J., Hoffman, S & Riedel, S. (2017). Targeting rejections: analysis of specimen acceptability and rejection. *Journal of Clinical Laboratory Analysis* .volume 31, issue 3

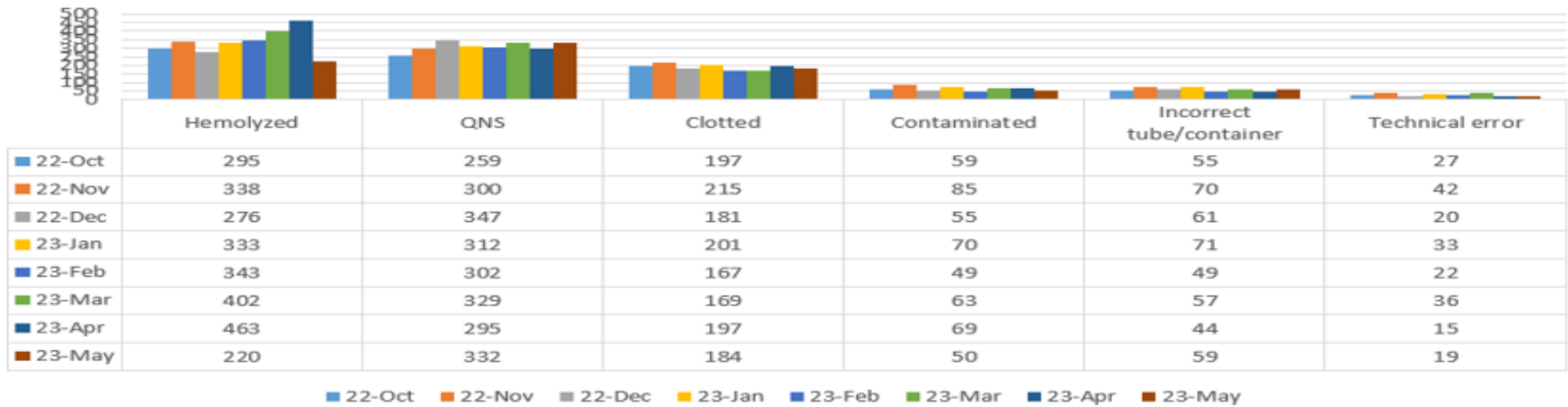
REJECTION TRENDING



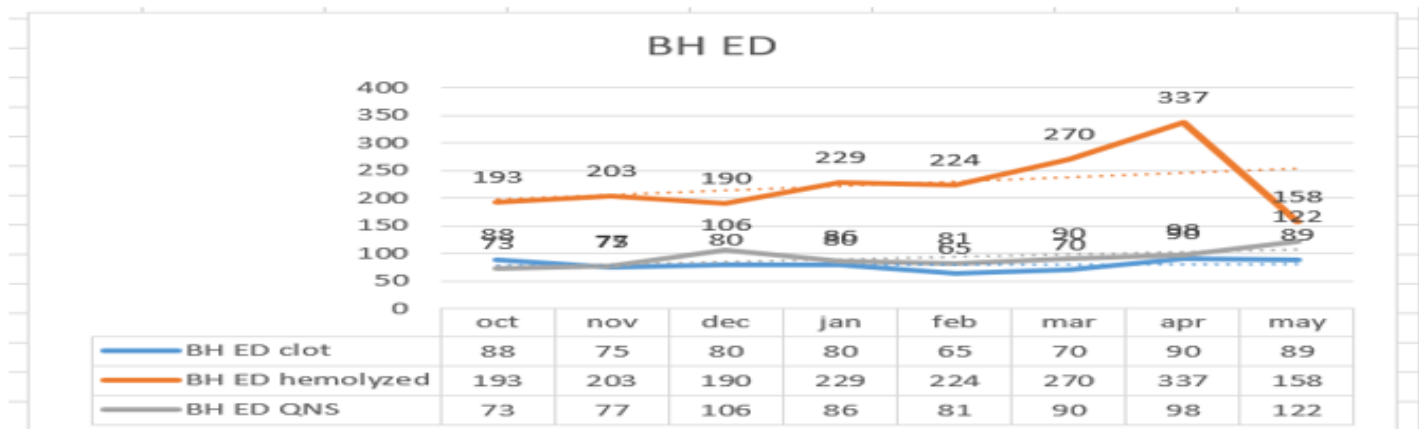
	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23
BH	1.9	1.7	1.6	1.4	1.3	1.6	1.6	1.6	1.7	2	2	2
MC	1.6	1.2	1.3	1.4	1	1.1	1.2	1.1	1.3	1.5	1.9	2.5

Lab General

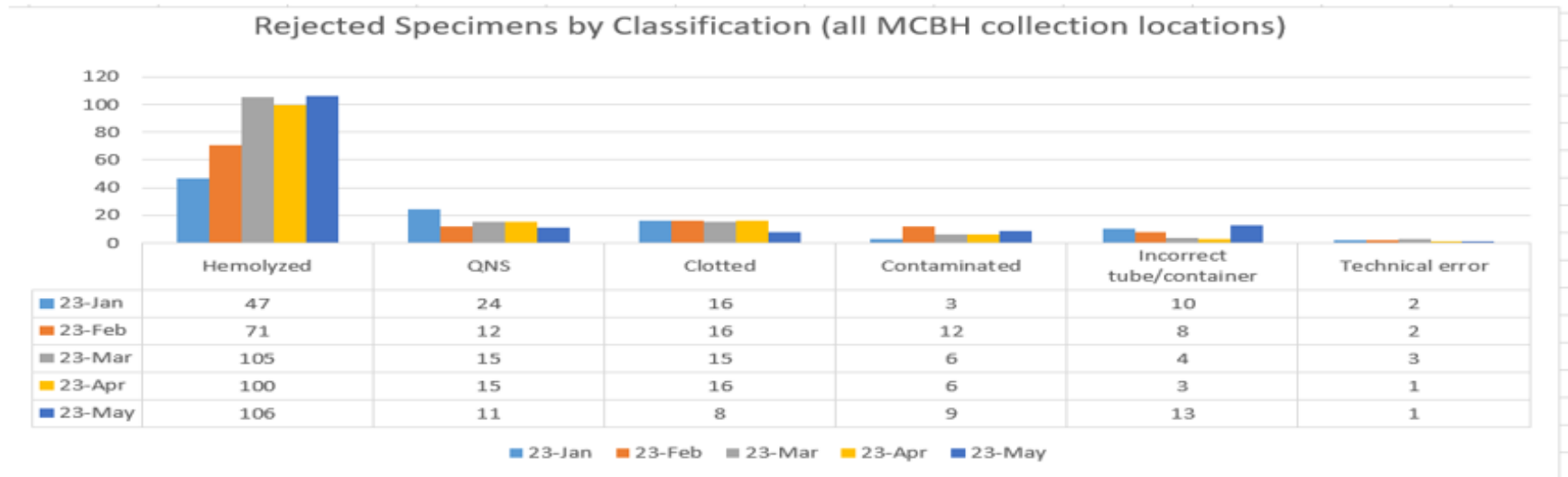
Rejected Specimens by Classification (all BH collection locations)



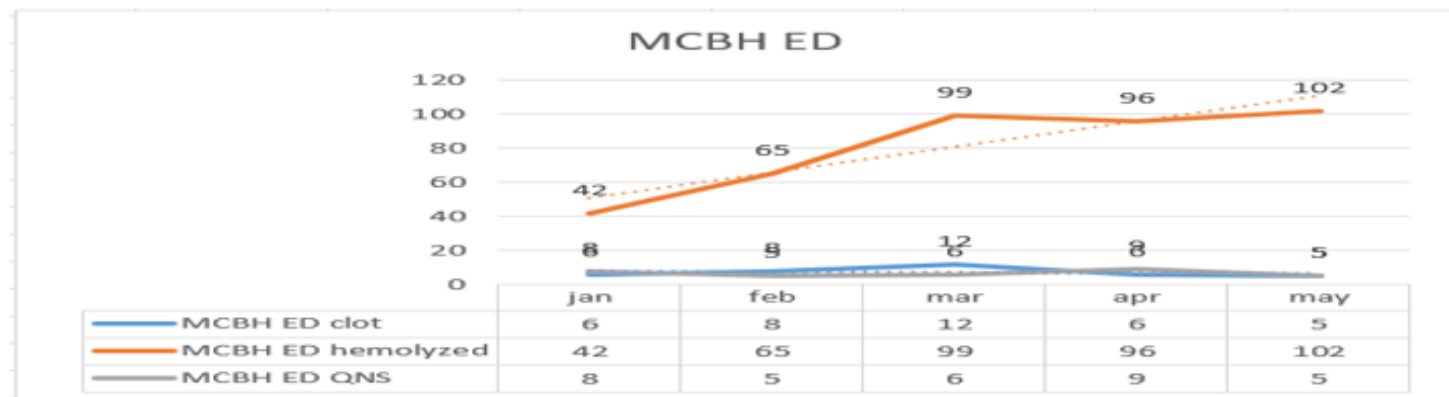
Top 3 Rejections-BH ED totals



Lab General



Top 3 Rejections-MCBH ED totals

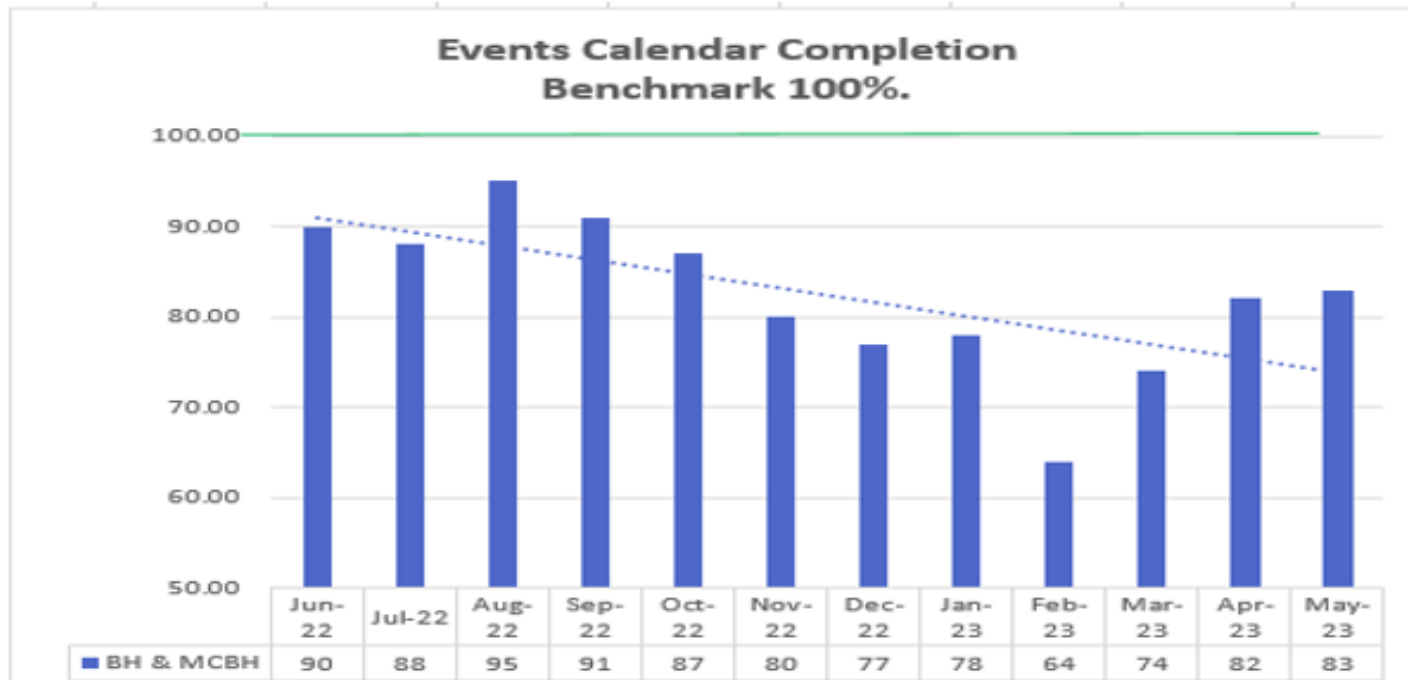


Lab General

BH & MCBH Events Calendar Completion 83%

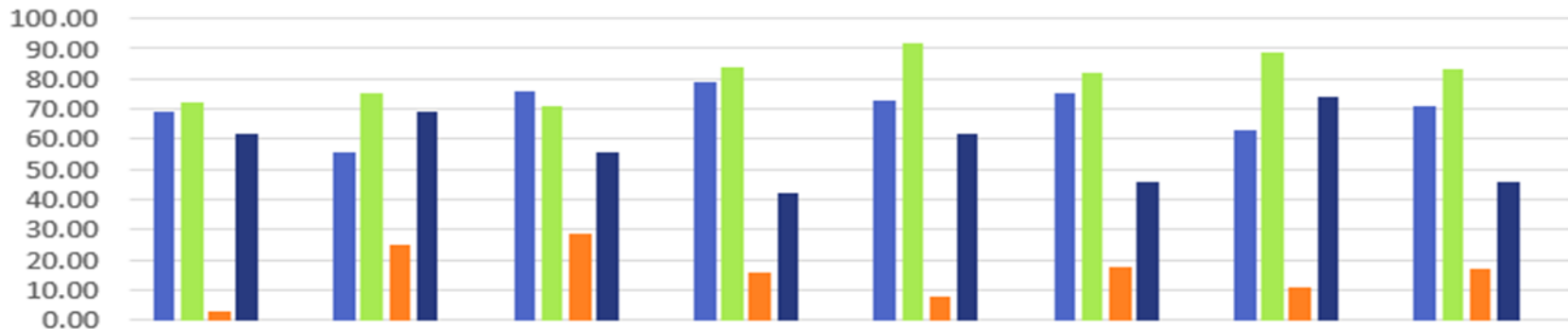
May 2023

Benchmark 100% 10/12 Events completed (2 incomplete from April)



Lab General

RL solution drill down

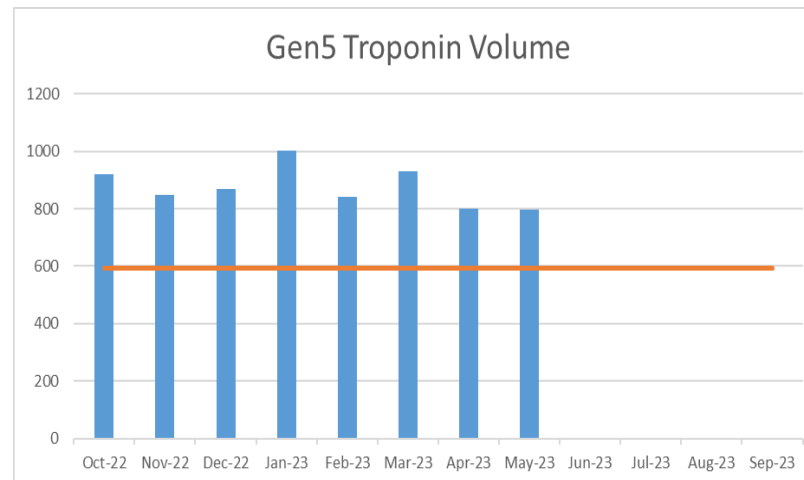
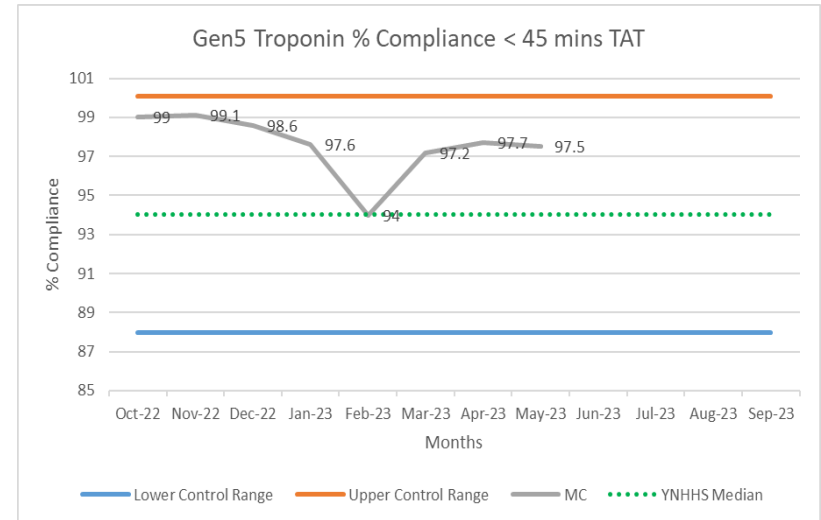
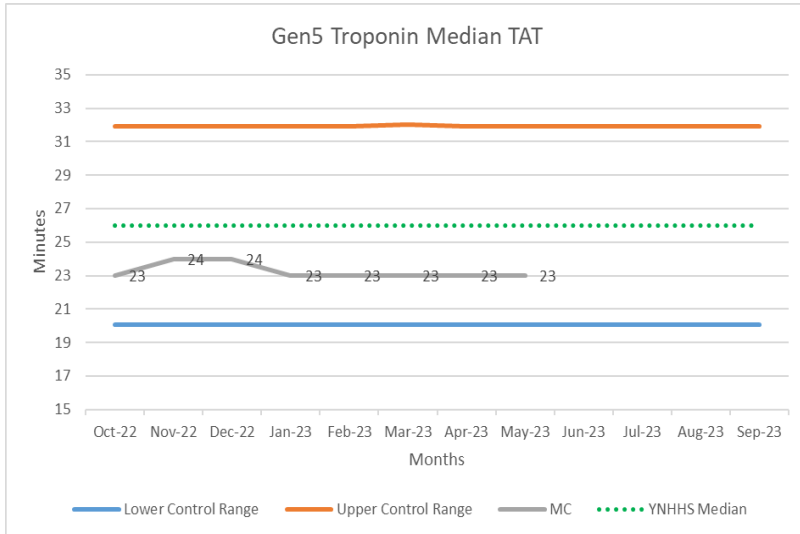


	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23
% closed	69	56	76	79	73	75	63	71
% initiated by lab	72	75	71	84	92	82	89	83
% initiated against lab	3	25	29	16	8	18	11	17
% non safety issue (closed)	62	69	56	42	62	46	74	46
% serious safety issue	0	0	0	0	0	0	0	0

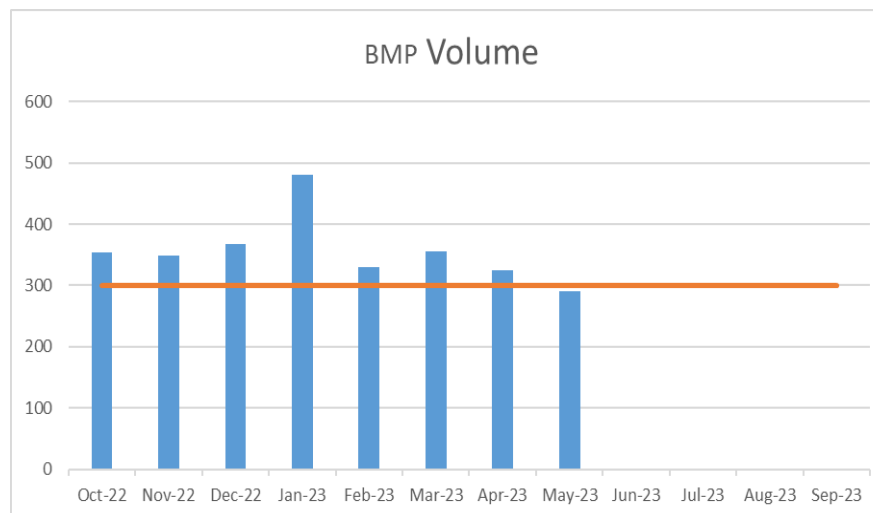
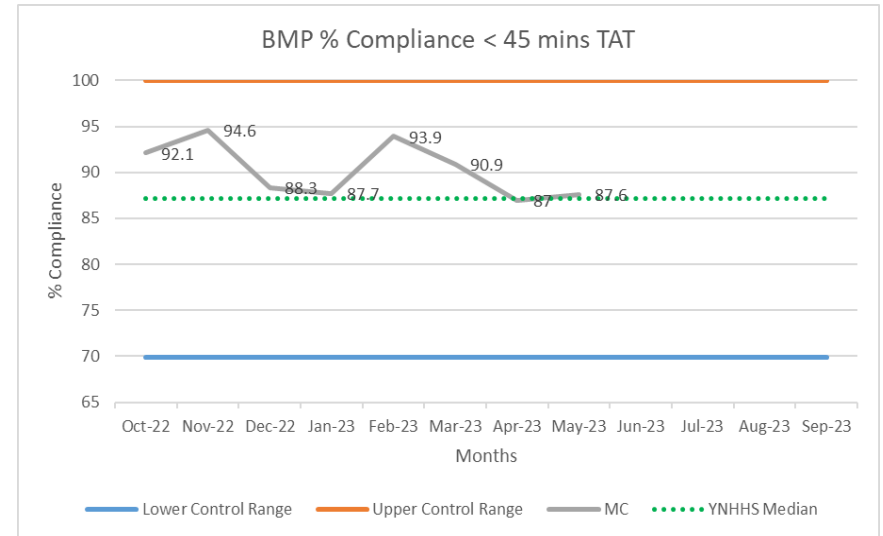
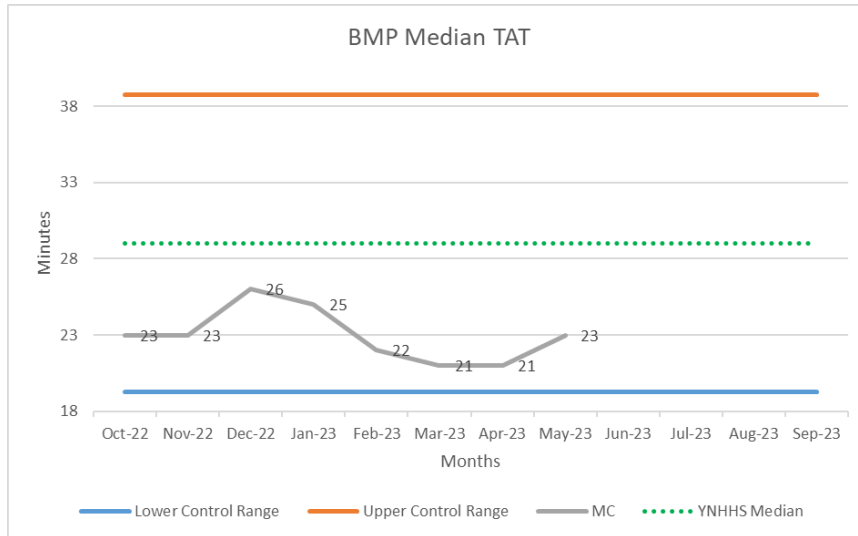
■ % closed ■ % initiated by lab ■ % initiated against lab
■ % non safety issue (closed) ■ % serious safety issue

17/24 events closed, 7 are new or in progress.
20 were lab initiated
No Serious Safety Events, rest barrier catches & PSE 2,3,4.

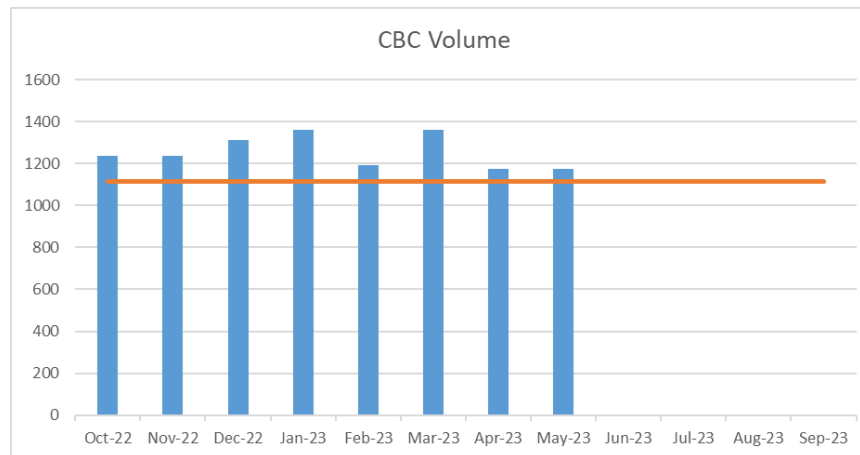
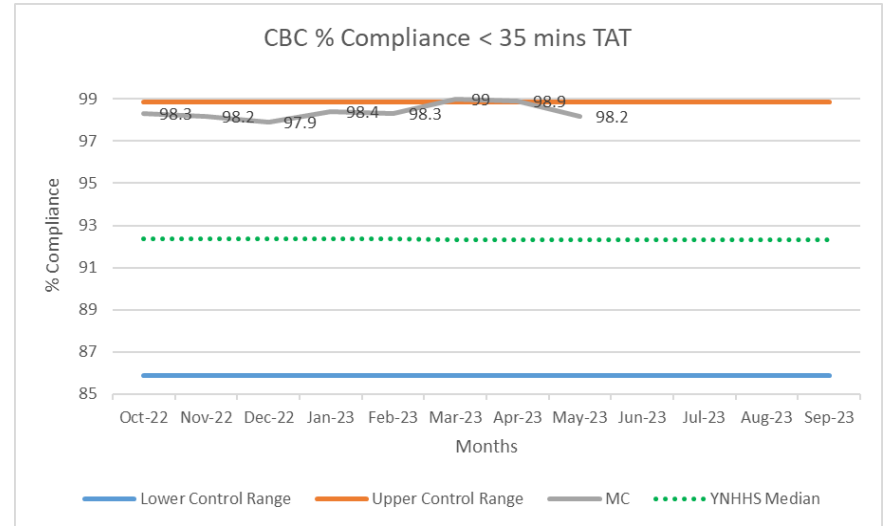
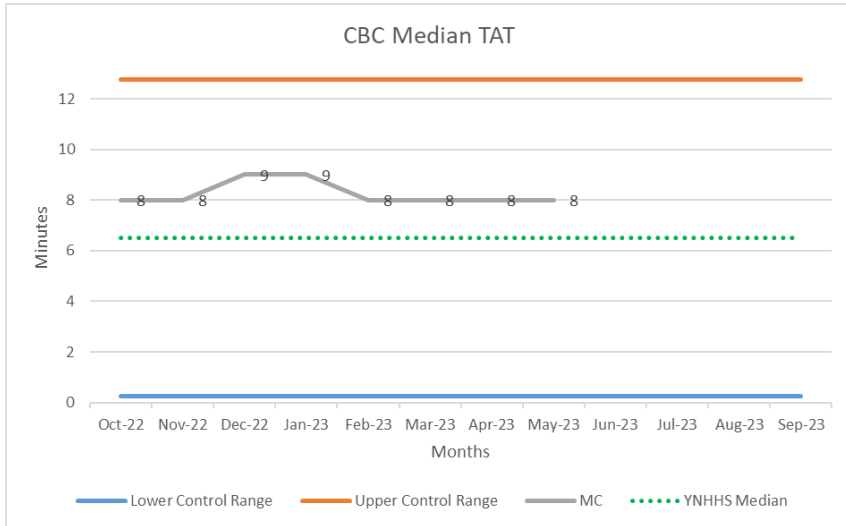
Milford Campus – Gen 5 Troponin TAT



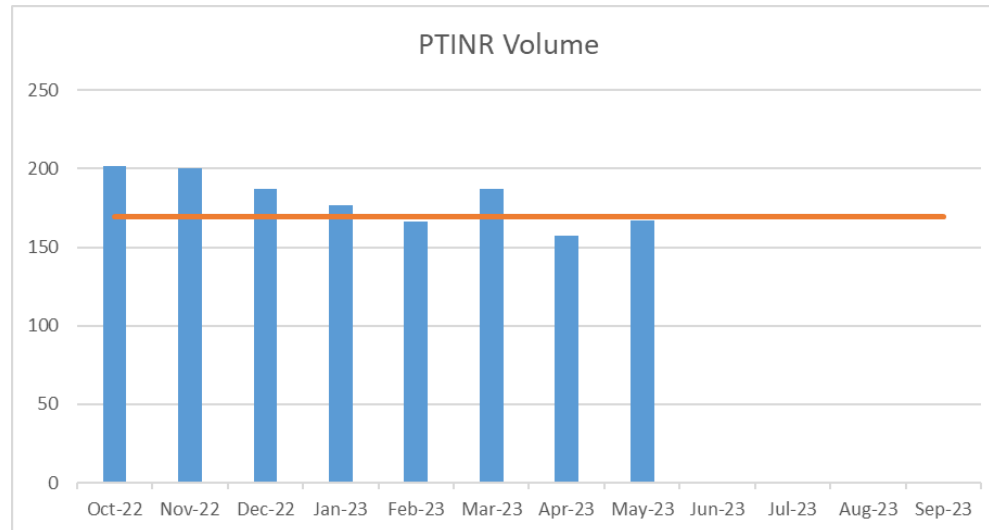
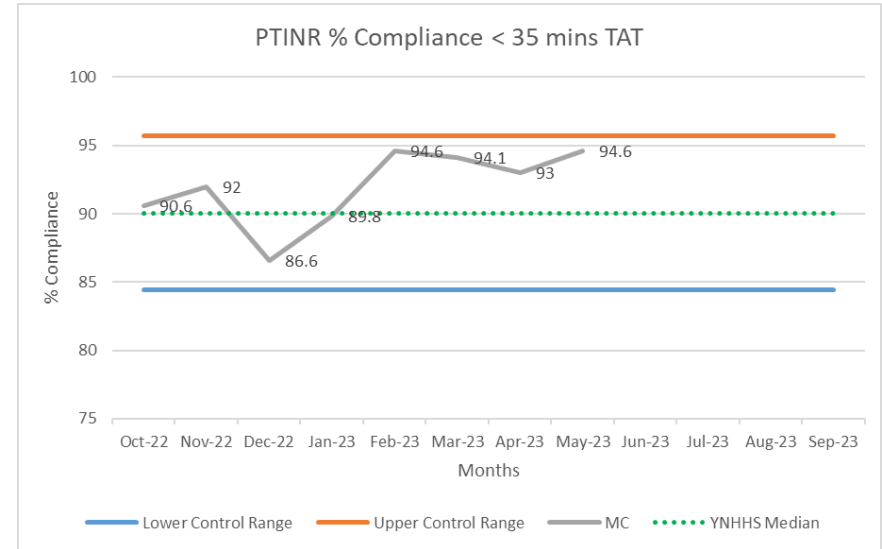
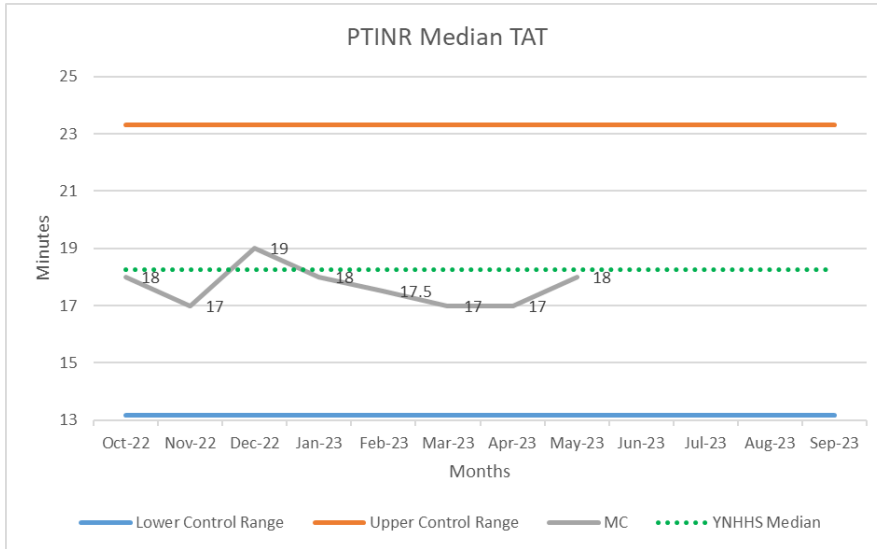
Milford Campus – Basic Metabolic Panel (BMP) ED TAT



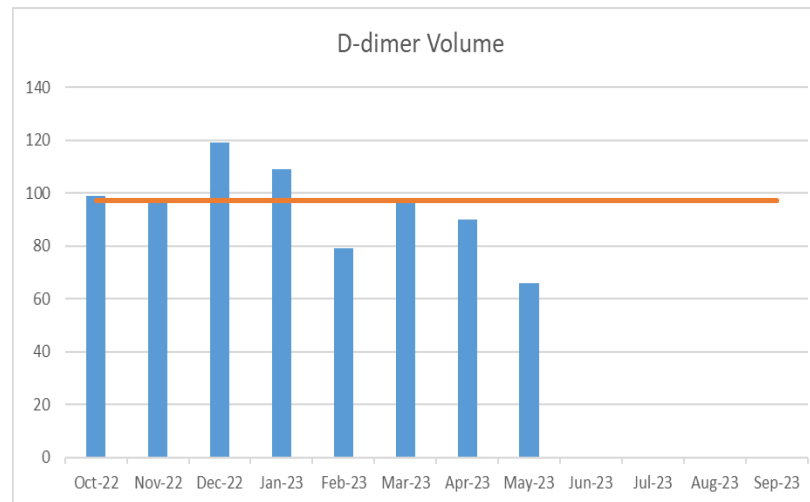
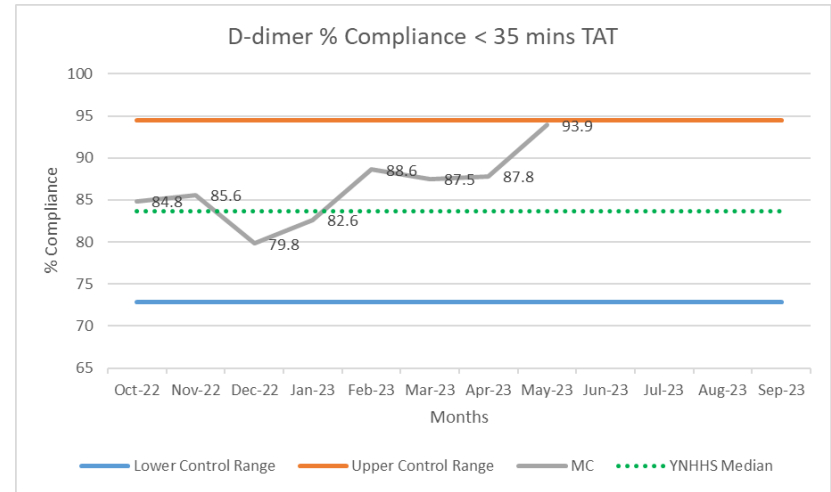
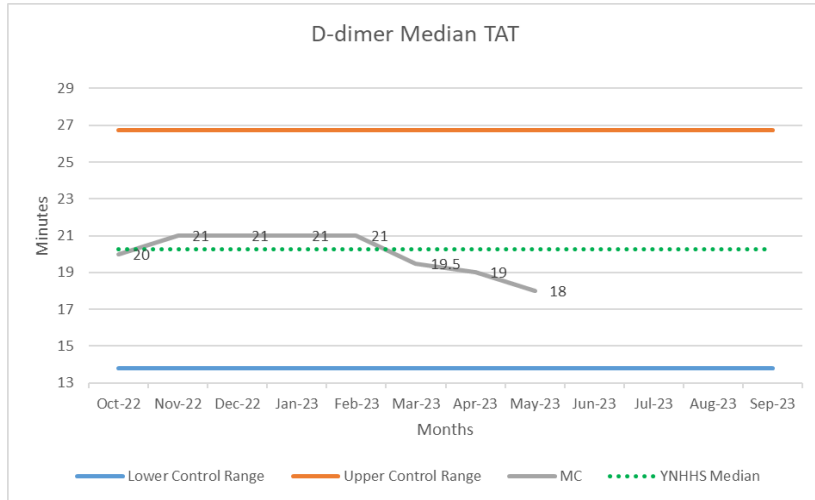
Milford Campus – Complete Blood Count (CBC) ED TAT



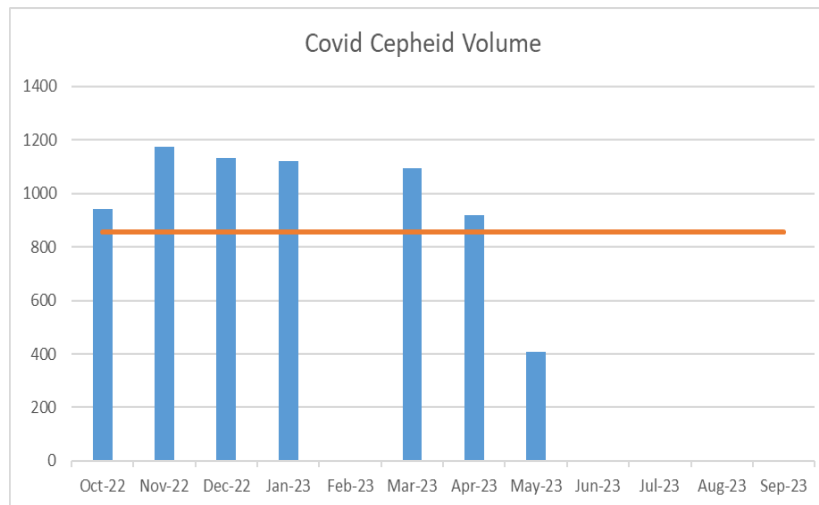
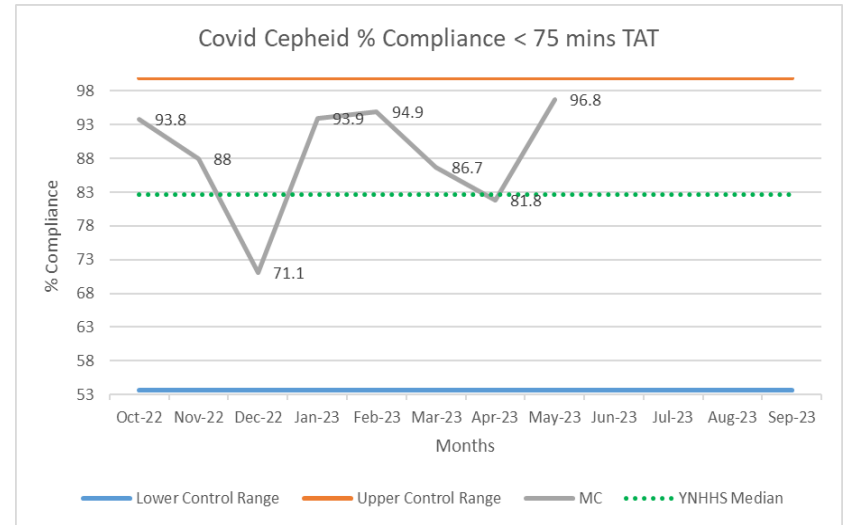
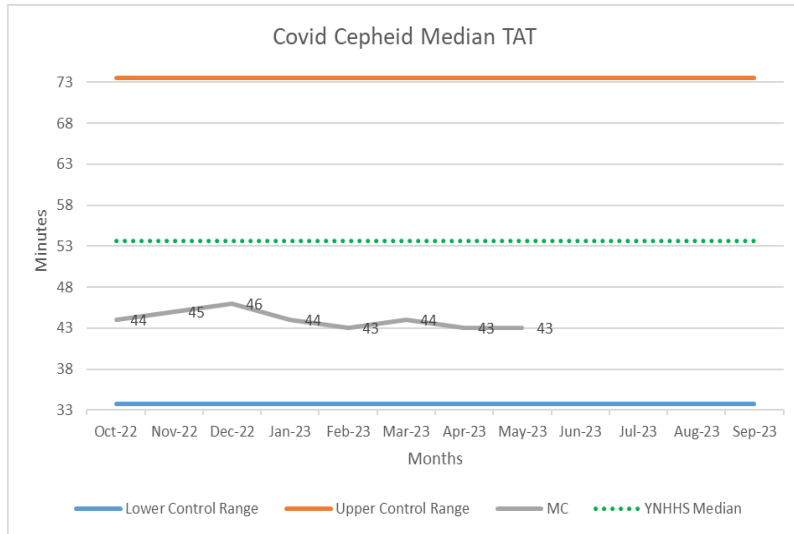
Milford Campus – PTINR ED TAT



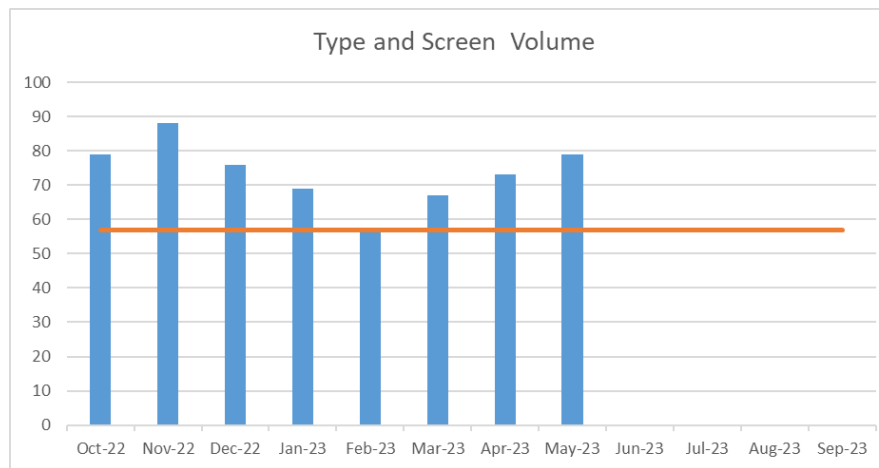
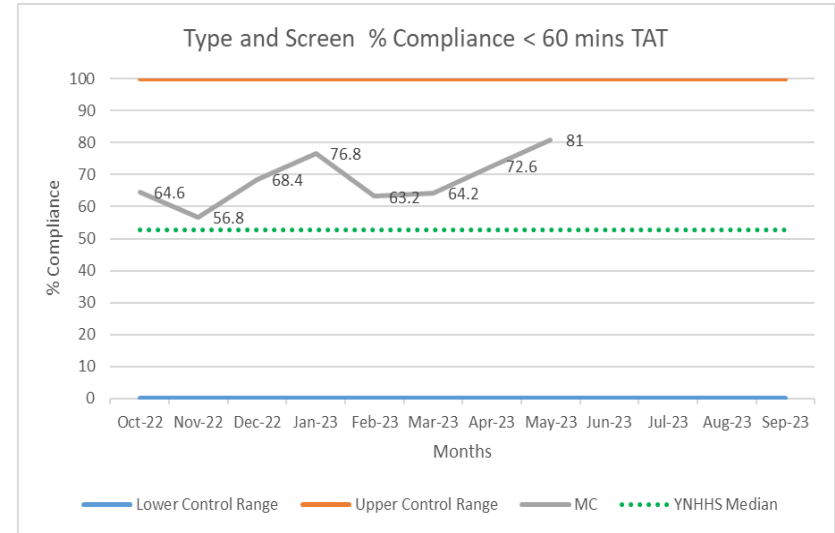
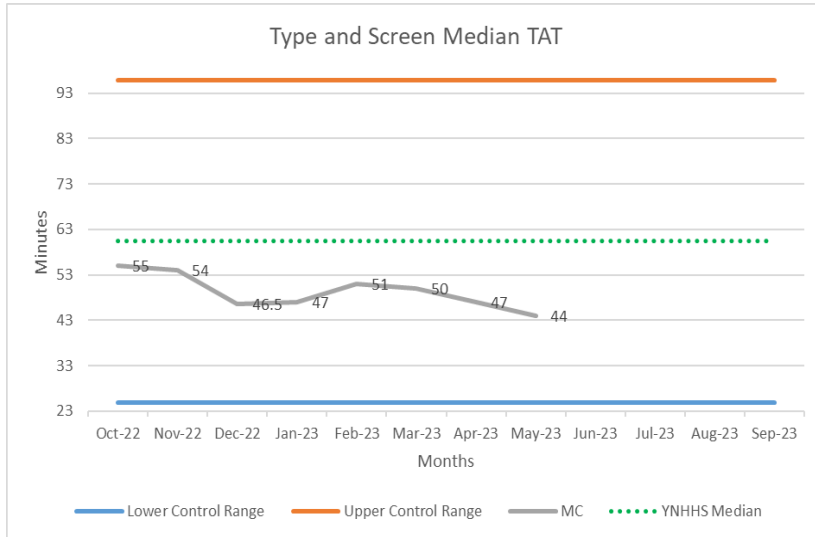
Milford Campus – D-dimer ED TAT



Milford Campus – COVID Cepheid PCR ED TAT



Milford Campus – Type and Screen ED TAT



Milford Hospital Blood Bank RBC

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total Amount
Transfusion	109	96	94	73	90	76	114	87					\$167,235.70
Wasted	0	0	0	0	0	1	0	1					\$452.60
Total	109	96	94	73	90	77	114	88					\$167,688.30

Milford Hospital Blood Bank Cryo

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total Amount
Transfusion	1	1	0	1	0	1	0	0					\$1,326.00
Wasted	1	0	0	0	0	0	0	0					\$331.50
Total	2	1	0	1	0	1	0	0					\$1,657.50

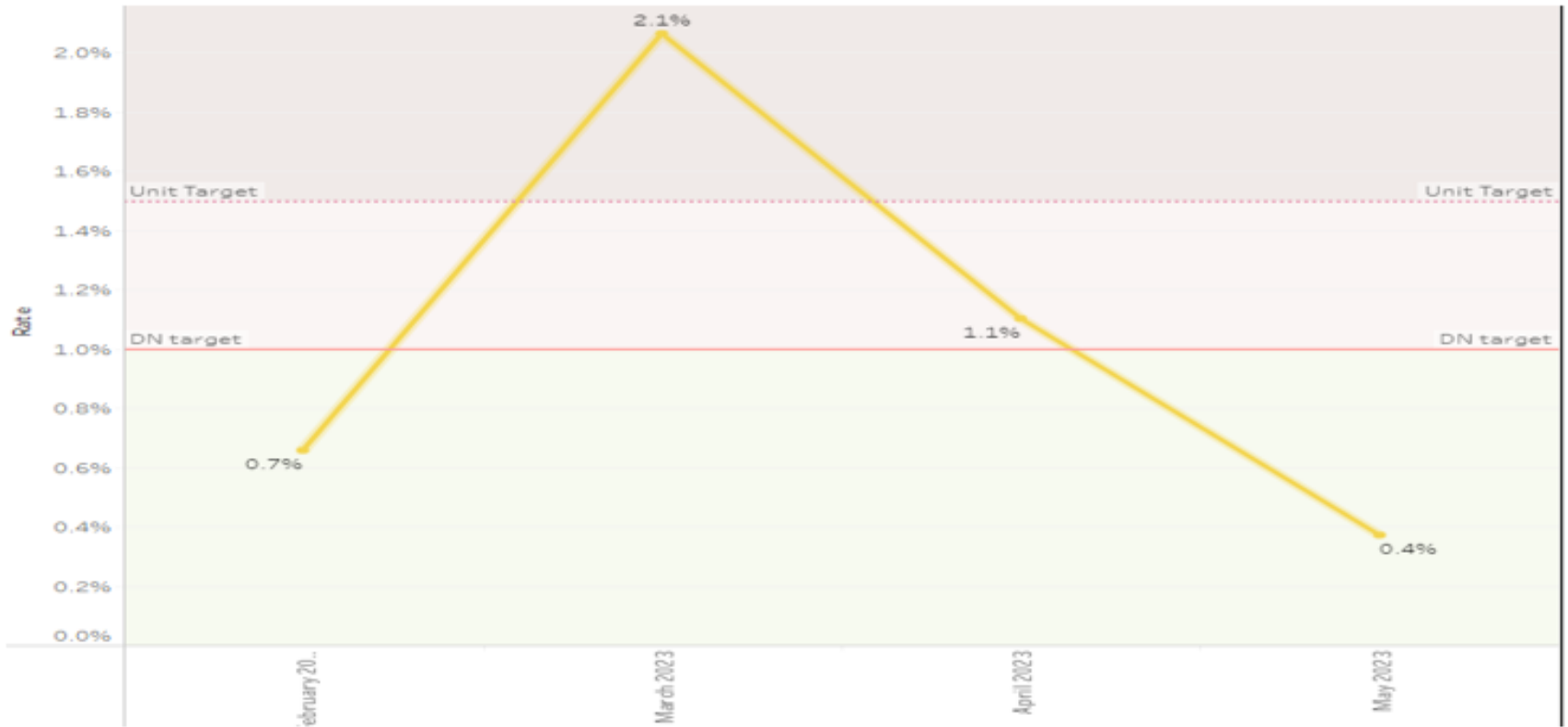
Milford Hospital Blood Bank FFP

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total Amount
Transfusion	4	4	6	0	1	2	1	1					\$879
Discarded	0	0	0	2	6	10	8	12					\$1,759
Total	4	4	6	2	7	12	9	13					\$2,639

Milford Hospital Blood Bank Platelet Discarded

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total Amount
Transfusion	3	8	6	3	4	4	6	3					\$24,901
Discarded	11	7	9	17	23	15	17	19					\$79,414
Total	14	15	15	20	27	19	23	22					\$104,315
% Discarded	78.57%	46.67%	60.00%	80%	85%	78.95%	73.91%	86.36%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Discarded/Day	0.3548	0.2258	0.2903	0.5667	0.8214	0.5357	0.6071	0.6786	0.0000	0.0000	0.0000	0.0000	\$2,746

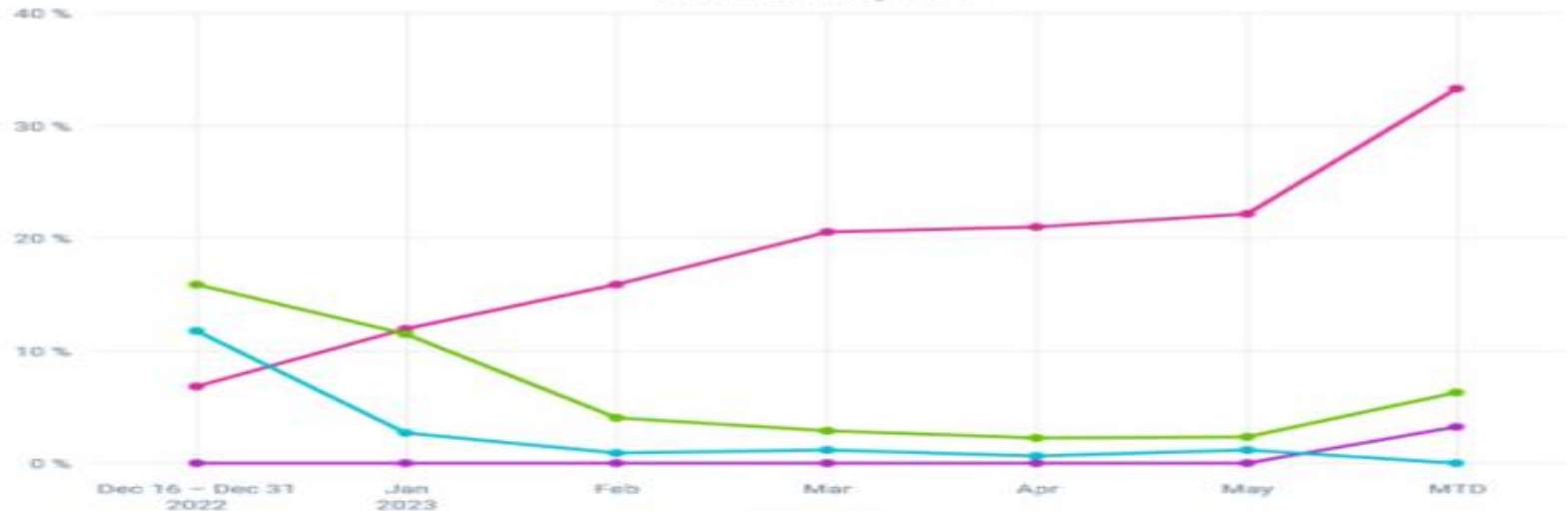
Blood Culture Contamination MCBH 0.4%



Milford Campus Molecular Dashboard

Percentage with Abnormal? by Test

Last 6 months by month



- Group A Strep PCR
- SARS CoV-2 (COVID-19) RNA
- Influenza A/B RNA, NAAT
- Influenza/RSV by RT-PCR

Date	Tests	% Positivity	Derived Baseline	Environment Monitoring	Physician Feedback	Epidemiological Trends	Evaluation Notes	Corrective Action (If needed)
May-23	SARS-CoV-2	2.40%	0-22%	Negative	None	None	None	None
May-23	Group A Strep	22.20%	0-19%	Negative	None	None	seasonal spike	None
May-23	Flu A/B	0%	0-7%	Negative	None	None	None	None
May-23	Flu/RSV	1.20%	0-14%	Negative	None	None	None	None

CRSQ Report Out

Committee of Regulatory, Safety, & Quality

June 6, 2023

Bridgeport Hospital

Department of Laboratory Medicine

Teodorico Lee MPH, Christine Minerowicz M.D., Edward Snyder M.D.,
Laura Buhlmann M.S., Melissa Morales B.A.

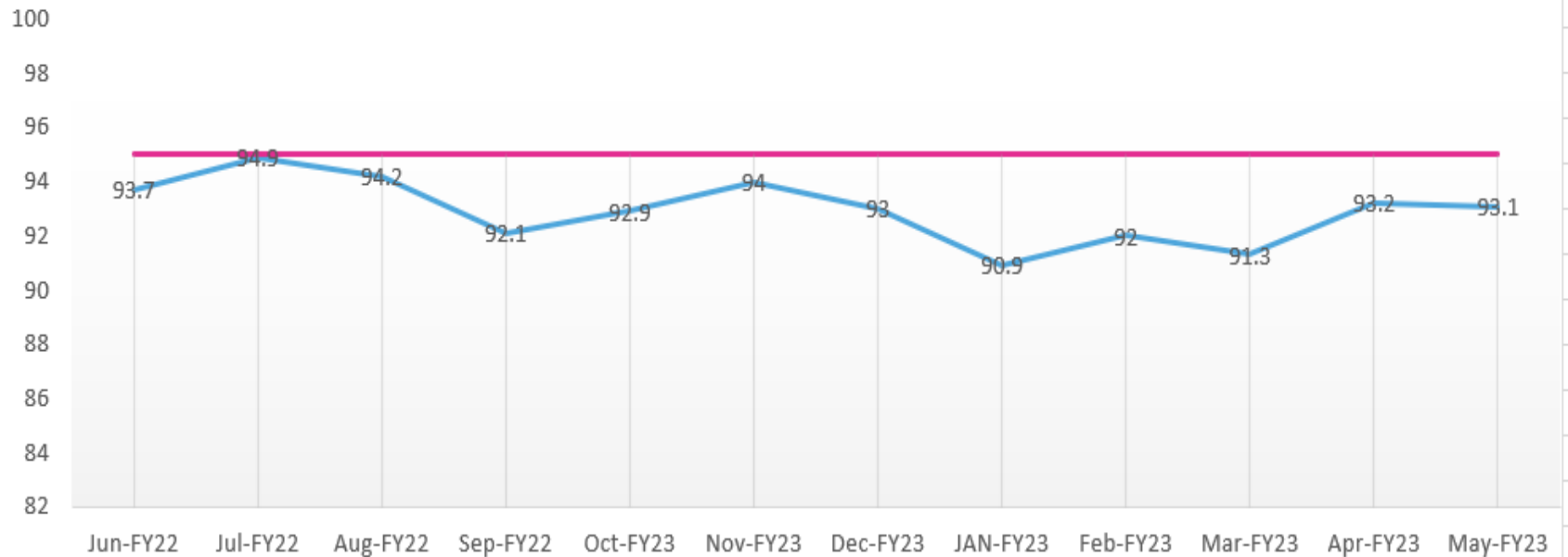
<p>SMART Aim <i>Specific-Measurable-Actionable-Relevant-Timely</i></p>	<p>Increase the critical result notification compliance with our 30-minute goal to 95% at Bridgeport Hospital The 30-minute time period is from the moment the critical value is final verified to the moment the communication log in Epic is completed.</p> <ul style="list-style-type: none"> We are currently at 93.1% compliance as a department.
<p>Key drivers <i>measurable processes impacting the outcome</i></p>	<p>Decrease the time from result verification to communication log completion.</p> <ul style="list-style-type: none"> Increase performance of correct workflow (verify result first and then notify provider). Timely communication of outpatient critical values
<p>Interventions <i>actions/changes necessary to impact key drivers</i></p>	<p>Standardize critical call list workflow</p> <ul style="list-style-type: none"> Provided re-education and tips and tricks for the correct workflow. Identified a process to streamline outpatient critical calls (work with specific practices with known notification issues).
<p>Results* <i>accomplishments, modifications, barriers</i></p>	<p>Accomplishments</p> <ul style="list-style-type: none"> July 2022 had a 94.9% compliance (highest in the 12 month period of June 2022-May 2023). Department of Laboratory Medicine averages approximately 1500 critical calls per month.

Note: There is an additional system project to standardize critical result notification workflow.

- Will allow reports and metrics to be standardized as well

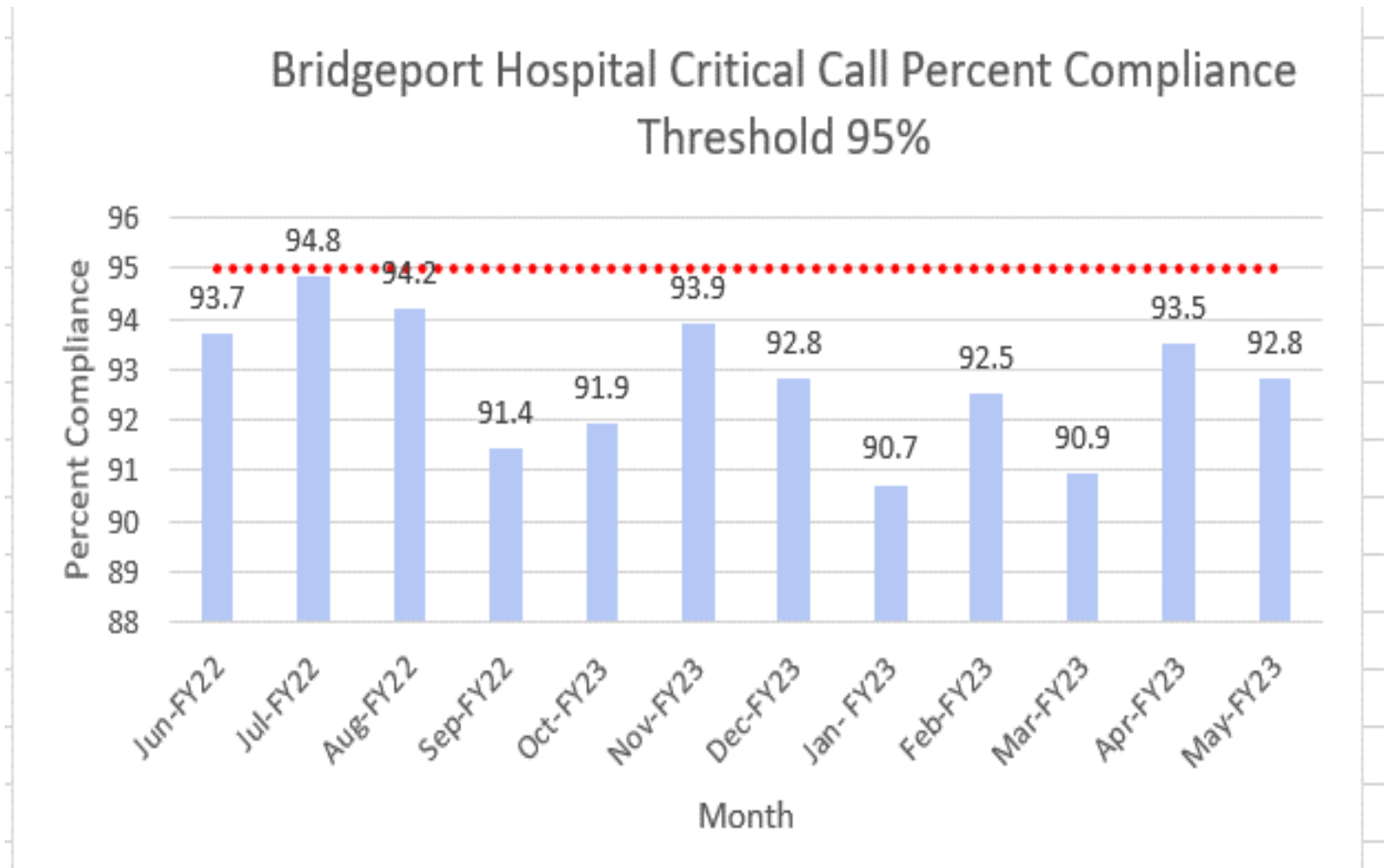
Bridgeport Hospital Department of Laboratory Medicine Critical Call Percent Compliance 92% (cumulatively) 6/1/2022-5/31/2023

Department of Laboratory Medicine Combined Critical Call Compliance Threshold
95%



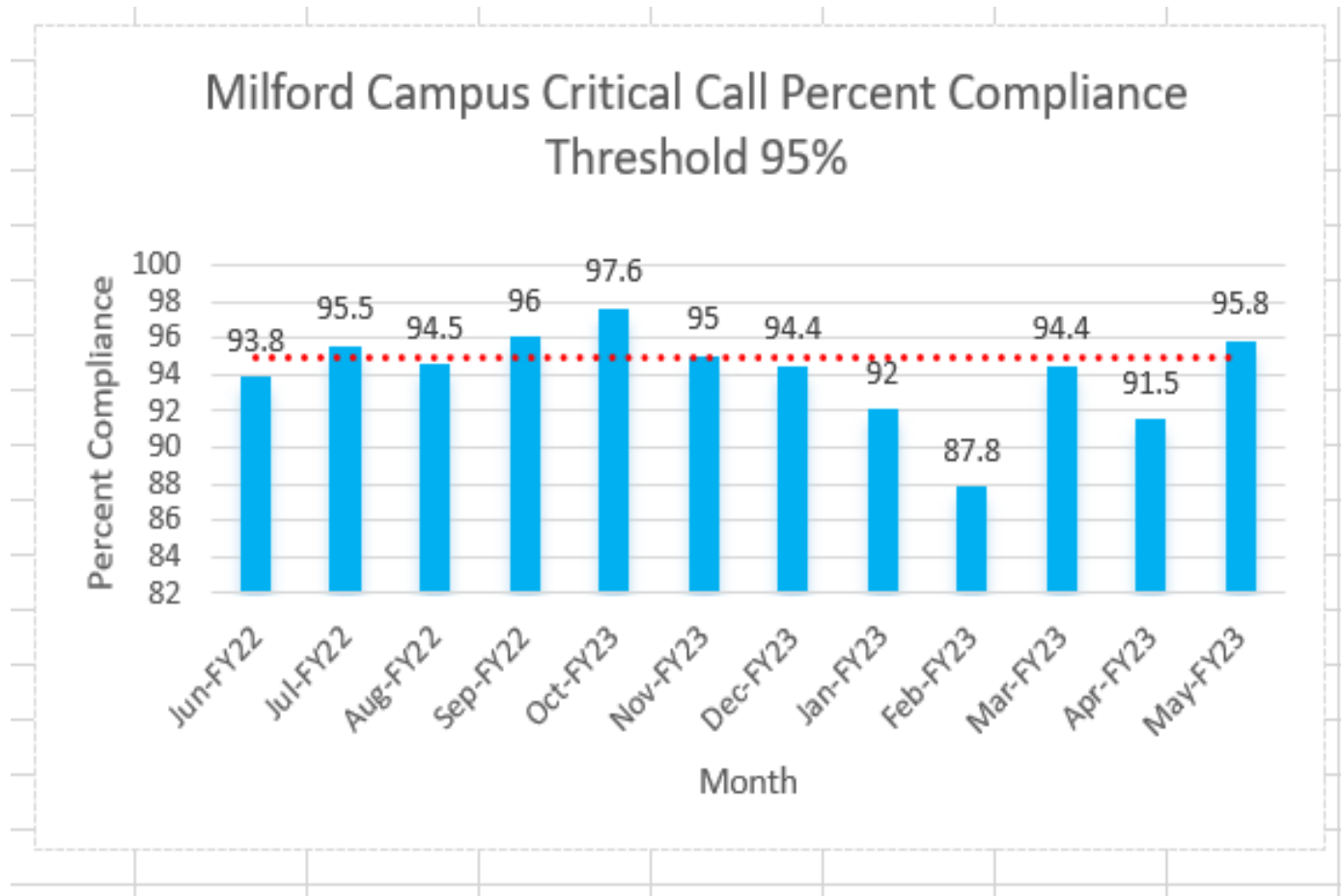
Bridgeport Campus Critical Call Percent Compliance 91.9%

6/1/2022- 5/31/2023



Milford Campus Critical Call Percent Compliance 92.7%

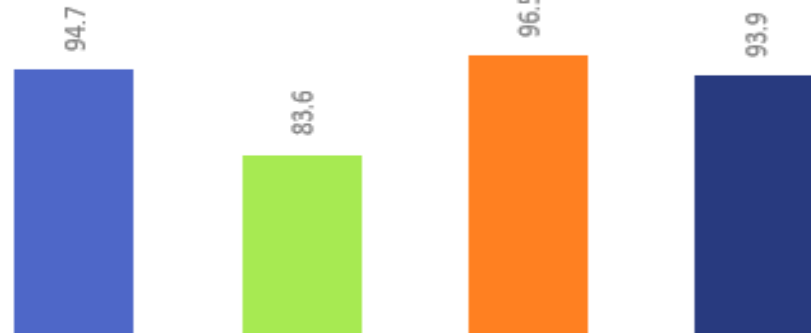
6/1/2022-5/31/2023



Lab General

CRITICAL CALL TAT INPATIENT VS. OUTPATIENT

BH IN BH OUT MC IN MC OUT



MAY-23

May-23

BH IN	94.7
BH OUT	83.6
MC IN	96.5
MC OUT	93.9