



**TO:** HCHS/SOL Quality Control Committee  
**FROM:** Daniela Sotres-Alvarez and Matthew Boykin, HCHS/SOL Coordinating Center  
**DATE:** August 29, 2024  
**RE:** HCHS/SOL QC Report, May 2024

Data collection for Visit 3 ended on January 31<sup>st</sup>, 2024. According to data retrieved as of June 4<sup>th</sup>, a total of 9,852 participants have attended the Visit 3 in-person clinic visit. Specifically, 2,270 in the Bronx, 2,698 in Chicago, 2,426 in Miami and 2,458 in San Diego (Table 1.2 in the May Management report). **This V3 QC report includes:**

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### **Visit 3 Lab Reliability Study (blinded duplicates for Central Lab)**

- Under V3 contract, only six analytes are being analyzed and transferred to the Coordinating Center: cholesterol (total, HDL, LDL), triglycerides, glycosylated hemoglobin, and fasting glucose. Other ancillaries will fund other analytes for a subsample of participants.

Two statistics of great interest are the reliability coefficient and the coefficient of variation (CV). A reliability coefficient close to 1 suggests that only a small proportion of the total variance is due to measurement error (or laboratory) variation. Ideally, we would like all reliabilities to be above 0.80. The CV is a measure of within-specimen variation expressed as a percentage of the mean; we would like to see CV values below 10%.

Most statistics (reliability, CV, mean difference and proportion of positive differences) show excellent reproducibility from the Central Lab for blinded duplicates.

## HCHS/SOL Quality Control Report, May 2024

**Table 1. Reliability of Anthropometric Measurements**

	N	Mean	QC Pairs				CV (4)	Repli-	Original	Difference (replicate-original)				pval (5)
			Within SD (Lab) (1)	Between SD (2)	Reliab (3)	Mean		Mean		Mean	95% CI	Prop > 0		
<b>Standing Height (ANT2)</b>														
Bronx	47	160.1	0.48	10.13	1.00	0.3	160.0	160.1	-0.09	-0.28	0.11	0.46	1.000	
*Bronx	47	160.1	0.48	10.66	1.00	0.3	160.0	160.6	-0.09	-0.28	0.11	0.46	1.000	
Chicago	45	161.1	0.18	8.85	1.00	0.1	161.1	161.1	0.02	-0.05	0.10	0.67	1.000	
*Chicago	46	161.0	0.28	8.63	1.00	0.2	161.0	160.9	-0.02	-0.14	0.09	0.50	1.000	
Miami	53	162.6	0.55	8.99	1.00	0.3	162.6	162.5	0.08	-0.13	0.29	0.65	0.263	
*Miami	53	162.6	0.55	8.93	1.00	0.3	162.6	162.6	0.08	-0.13	0.29	0.65	0.263	
San Diego	72	158.5	0.48	8.91	1.00	0.3	158.5	158.5	-0.04	-0.20	0.12	0.48	1.000	
*San Diego	73	158.6	0.54	8.76	1.00	0.3	158.6	158.7	-0.08	-0.26	0.09	0.46	0.851	
Overall	218	160.4	0.46	9.24	1.00	0.3	160.4	160.4	-0.02	-0.11	0.07	0.53	0.708	
*Overall	219	160.4	0.48	9.35	1.00	0.3	160.4	160.5	-0.03	-0.12	0.06	0.52	0.804	
<b>Weight (ANT4)</b>														
Bronx	45	78.1	0.09	16.89	1.00	0.1	78.07	78.10	-0.03	-0.07	0.00	0.35	0.263	
*Bronx	47	78.2	0.13	15.80	1.00	0.2	78.16	77.48	-0.03	-0.08	0.02	0.36	0.286	
Chicago	44	80.5	0.04	18.00	1.00	0.1	80.49	80.50	-0.00	-0.02	0.01	0.44	0.804	
*Chicago	46	80.4	0.08	21.95	1.00	0.1	80.37	82.80	0.02	-0.02	0.05	0.50	1.000	
Miami	51	83.6	0.10	20.33	1.00	0.1	83.60	83.63	-0.04	-0.07	0.00	0.33	0.189	
*Miami	53	83.1	0.12	19.62	1.00	0.2	83.06	82.88	-0.04	-0.08	0.01	0.35	0.210	
San Diego	72	76.1	0.12	15.81	1.00	0.2	76.08	76.11	-0.03	-0.07	0.01	0.42	0.405	
*San Diego	73	75.8	0.15	16.21	1.00	0.2	75.77	76.21	-0.05	-0.09	0.00	0.41	0.324	
Overall	214	79.2	0.10	17.72	1.00	0.1	79.19	79.20	-0.02	-0.04	0.00	0.41	0.100	
*Overall	219	79.0	0.13	18.34	1.00	0.2	79.01	79.37	-0.03	-0.05	-0.00	0.40	0.057	

	N	Mean	QC Pairs				CV (4)	Repli-	Original	Difference (replicate-original)				pval (5)
			Within SD (Lab) (1)	Between SD (2)	Reliab (3)	Mean		Mean		Mean	95% CI	Prop > 0		
Fat (%) (ANT5)														
Bronx	45	36.7	0.64	8.64	0.99	1.8	36.59	36.71	-0.13	-0.39	0.14	0.42	0.418	
*Bronx	46	36.6	1.44	8.71	0.97	3.9	36.36	35.81	-0.39	-0.98	0.19	0.41	0.337	
Chicago	41	35.4	1.11	8.13	0.98	3.1	35.31	35.42	-0.11	-0.59	0.38	0.33	0.053	
*Chicago	43	34.9	2.79	8.41	0.90	8.0	34.47	35.99	-0.88	-2.04	0.28	0.32	0.028	
Miami	50	38.5	0.56	8.90	1.00	1.5	38.49	38.47	0.01	-0.21	0.24	0.30	0.011	
*Miami	52	38.5	1.76	8.54	0.96	4.6	38.44	38.41	-0.05	-0.73	0.64	0.31	0.013	
San Diego	71	38.2	0.35	7.92	1.00	0.9	38.15	38.25	-0.10	-0.22	0.01	0.33	0.010	
*San Diego	73	38.0	1.17	7.92	0.98	3.1	37.94	38.03	-0.03	-0.41	0.36	0.33	0.011	
Overall	208	37.3	0.74	8.39	0.99	2.0	37.27	37.38	-0.11	-0.25	0.03	0.34	0.000	
*Overall	214	37.2	1.80	8.40	0.96	4.8	37.02	37.17	-0.28	-0.62	0.06	0.34	0.000	
Impedance (ANT6)														
Bronx	45	497.9	4.06	91.47	1.00	0.8	497.2	498.5	-1.29	-2.94	0.36	0.34	0.060	
*Bronx	46	496.6	12.83	85.13	0.98	2.6	494.7	501.4	-3.80	-8.99	1.38	0.33	0.044	
Chicago	41	466.1	27.90	72.62	0.87	6.0	464.0	468.2	-4.22	-16.4	7.94	0.34	0.073	
*Chicago	43	473.3	51.04	76.71	0.69	10.8	464.9	475.4	-16.9	-37.9	4.13	0.33	0.038	
Miami	51	520.8	3.01	86.40	1.00	0.6	519.7	521.8	-2.10	-3.13	-1.07	0.25	0.001	
*Miami	52	520.1	3.57	83.15	1.00	0.7	519.2	519.7	-1.67	-2.98	-0.37	0.27	0.001	
San Diego	72	521.8	4.28	77.26	1.00	0.8	520.4	523.2	-2.81	-4.05	-1.56	0.25	0.000	
*San Diego	73	523.9	4.59	79.28	1.00	0.9	522.4	521.2	-3.05	-4.38	-1.73	0.25	0.000	
Overall	209	507.3	5.27	84.21	1.00	1.0	506.3	508.3	-1.98	-2.95	-1.00	0.29	0.000	
*Overall	214	506.9	23.67	83.25	0.93	4.7	504.1	507.2	-5.66	-10.1	-1.23	0.29	0.000	

	N	Mean	QC Pairs				CV (4)	Repli-	Original	Difference (replicate-original)				pval (5)
			Within SD (Lab) (1)	Between SD (2)	Reliab (3)	Mean		Mean		Mean	95% CI	Prop > 0		
Fat Mass (ANT7)														
Bronx	45	29.3	0.47	11.39	1.00	1.6	29.24	29.32	-0.08	-0.28	0.11	0.39	0.243	
*Bronx	46	29.3	1.22	10.85	0.99	4.2	29.10	28.26	-0.32	-0.81	0.18	0.38	0.188	
Chicago	41	28.9	0.83	12.03	1.00	2.9	28.84	28.94	-0.10	-0.46	0.26	0.32	0.058	
*Chicago	43	28.5	2.31	14.40	0.97	8.1	28.15	30.72	-0.75	-1.71	0.21	0.31	0.029	
Miami	51	32.4	0.29	11.71	1.00	0.9	32.37	32.44	-0.07	-0.18	0.04	0.30	0.010	
*Miami	52	33.0	0.36	11.95	1.00	1.1	32.96	32.70	-0.03	-0.17	0.11	0.31	0.016	
San Diego	71	29.5	0.23	10.99	1.00	0.8	29.47	29.56	-0.09	-0.16	-0.01	0.30	0.003	
*San Diego	73	29.6	0.28	11.11	1.00	1.0	29.51	29.90	-0.08	-0.17	0.01	0.31	0.003	
Overall	211	30.2	0.49	11.60	1.00	1.6	30.17	30.25	-0.07	-0.17	0.02	0.33	0.000	
*Overall	214	30.1	1.20	11.97	0.99	4.0	29.99	30.30	-0.25	-0.48	-0.03	0.32	0.000	
FFM (ANT8)														
Bronx	45	49.0	0.45	9.51	1.00	0.9	49.02	48.98	0.05	-0.14	0.23	0.55	0.728	
*Bronx	46	49.2	1.22	9.53	0.98	2.5	49.37	49.19	0.28	-0.21	0.78	0.56	0.608	
Chicago	41	51.1	0.84	9.47	0.99	1.6	51.15	51.03	0.12	-0.25	0.48	0.68	0.047	
*Chicago	43	51.6	2.31	10.27	0.95	4.5	52.02	52.09	0.77	-0.19	1.73	0.69	0.024	
Miami	51	49.5	0.27	9.86	1.00	0.5	49.51	49.46	0.05	-0.06	0.15	0.68	0.028	
*Miami	52	50.3	0.34	11.15	1.00	0.7	50.29	50.19	0.01	-0.13	0.14	0.67	0.044	
San Diego	71	46.0	0.20	8.04	1.00	0.4	46.05	46.01	0.04	-0.03	0.10	0.59	0.229	
*San Diego	73	46.2	0.25	8.17	1.00	0.5	46.26	46.53	0.03	-0.05	0.12	0.59	0.237	
Overall	211	48.8	0.48	9.71	1.00	1.0	48.79	48.75	0.05	-0.05	0.14	0.62	0.003	
*Overall	214	49.0	1.20	9.85	0.99	2.4	49.07	49.11	0.23	0.00	0.45	0.62	0.001	

	N	Mean	QC Pairs				CV (4)	Repli-	Original	Difference (replicate-original)				pval (5)
			Within SD (Lab) (1)	Between SD (2)	Reliab (3)	Mean		Mean		Mean	95% CI	Prop > 0		
TBW (ANT9)														
Bronx	45	35.8	0.34	6.91	1.00	0.9	35.87	35.83	0.03	-0.11	0.17	0.62	0.327	
*Bronx	46	36.0	0.90	6.97	0.98	2.5	36.12	35.97	0.21	-0.16	0.57	0.63	0.248	
Chicago	41	37.4	0.61	6.93	0.99	1.6	37.45	37.36	0.09	-0.18	0.35	0.66	0.110	
*Chicago	43	37.8	1.69	7.52	0.95	4.5	38.08	38.14	0.56	-0.14	1.26	0.68	0.058	
Miami	50	36.0	0.23	7.16	1.00	0.6	36.05	36.00	0.05	-0.04	0.14	0.71	0.017	
*Miami	52	36.8	0.33	8.15	1.00	0.9	36.78	36.71	-0.02	-0.14	0.11	0.68	0.047	
San Diego	71	33.7	0.15	5.88	1.00	0.4	33.71	33.69	0.03	-0.02	0.08	0.60	0.169	
*San Diego	73	33.9	0.19	5.98	1.00	0.6	33.86	34.06	0.02	-0.04	0.08	0.60	0.177	
Overall	211	35.7	0.37	7.09	1.00	1.0	35.71	35.68	0.03	-0.04	0.10	0.63	0.001	
*Overall	214	35.8	0.88	7.21	0.99	2.5	35.91	35.94	0.16	-0.01	0.33	0.64	0.001	
Waist (ANT10A)														
Bronx	45	103.0	2.89	12.34	0.95	2.8	103.7	102.3	1.42	0.29	2.55	0.67	0.080	
*Bronx	47	103.1	4.06	12.17	0.90	3.9	103.8	101.7	1.32	-0.30	2.94	0.66	0.090	
Chicago	46	102.7	1.04	12.57	0.99	1.0	102.7	102.6	0.15	-0.27	0.58	0.58	0.557	
*Chicago	46	102.7	1.04	15.39	1.00	1.0	102.7	103.9	0.15	-0.27	0.58	0.58	0.557	
Miami	53	104.4	0.93	14.45	1.00	0.9	104.5	104.3	0.17	-0.18	0.52	0.53	0.871	
*Miami	53	104.4	0.93	14.05	1.00	0.9	104.5	104.3	0.17	-0.18	0.52	0.53	0.871	
San Diego	72	100.7	1.65	13.31	0.98	1.6	100.7	100.7	0.07	-0.47	0.61	0.54	0.609	
*San Diego	73	101.2	2.97	13.88	0.96	2.9	101.4	101.4	0.48	-0.49	1.44	0.55	0.526	
Overall	214	102.4	1.41	13.23	0.99	1.4	102.5	102.2	0.25	-0.01	0.52	0.56	0.128	
*Overall	219	102.7	2.63	13.79	0.96	2.6	102.9	102.6	0.52	0.03	1.01	0.57	0.083	

	N	Mean	QC Pairs				Repli-	Original	Difference (replicate-original)				
			Within SD (Lab) (1)	Between SD (2)	Reliab (3)	CV (4)	cate		Mean	Mean	Mean	95% CI	Prop > 0
Hip (ANT10B)													
Bronx	46	108.3	1.31	10.68	0.99	1.2	108.4	108.2	0.22	-0.32	0.76	0.61	0.243
*Bronx	47	108.4	2.26	10.01	0.95	2.1	108.3	107.4	-0.17	-1.09	0.75	0.59	0.324
Chicago	45	105.8	0.67	9.84	1.00	0.6	105.6	105.9	-0.27	-0.53	0.00	0.28	0.043
*Chicago	46	105.8	0.73	13.42	1.00	0.7	105.7	107.2	-0.20	-0.49	0.10	0.31	0.076
Miami	51	109.9	0.73	12.27	1.00	0.7	109.9	109.9	0.02	-0.27	0.31	0.50	1.000
*Miami	53	110.4	1.21	12.00	0.99	1.1	110.4	110.4	-0.02	-0.48	0.45	0.50	1.000
San Diego	72	108.4	1.09	12.28	0.99	1.0	108.4	108.4	-0.07	-0.43	0.29	0.48	0.894
*San Diego	73	108.5	1.27	12.33	0.99	1.2	108.4	108.7	-0.18	-0.59	0.23	0.47	0.791
Overall	216	108.2	1.04	11.44	0.99	1.0	108.2	108.2	0.01	-0.18	0.21	0.49	0.871
*Overall	219	108.4	1.45	11.92	0.99	1.3	108.3	108.5	-0.14	-0.41	0.13	0.48	0.687

\* Outliers defined as the pair difference >3SD

(1) Standard deviation = square root (within-subject variance)

(2) Standard deviation = square root (between-subject variance)

(3) The reliability coefficient is the ICC (intra-class correlation coefficient) which is an estimate of the correlation between repeated measurements

(4) The coefficient of variation (CV) is the lab SD expressed as a percent of the mean of QC pairs

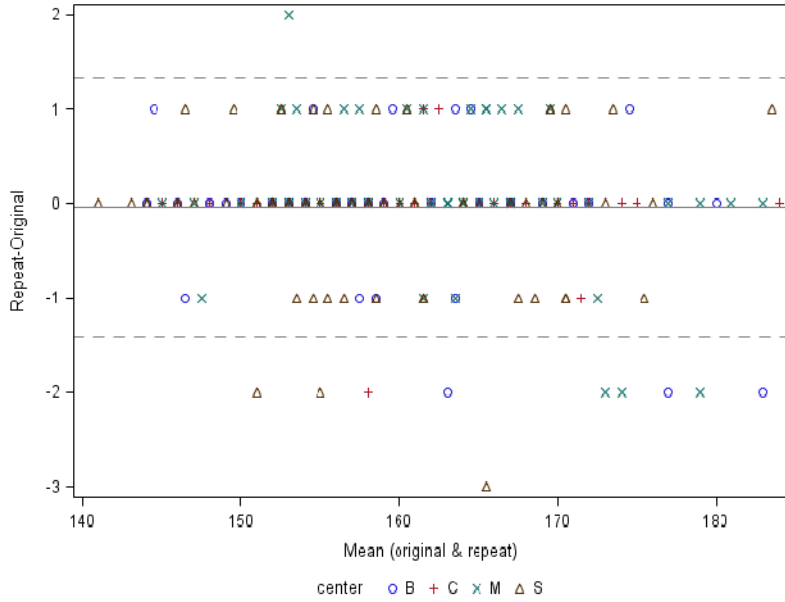
(5) P-value for test that the proportion of positive differences = 50% (test for systematic bias)

Created by HC325316 (uccpxs) on 07JUN24 10:58  
Based on the HCHS Visit3 2406 retrieval data created in June 4, 2024

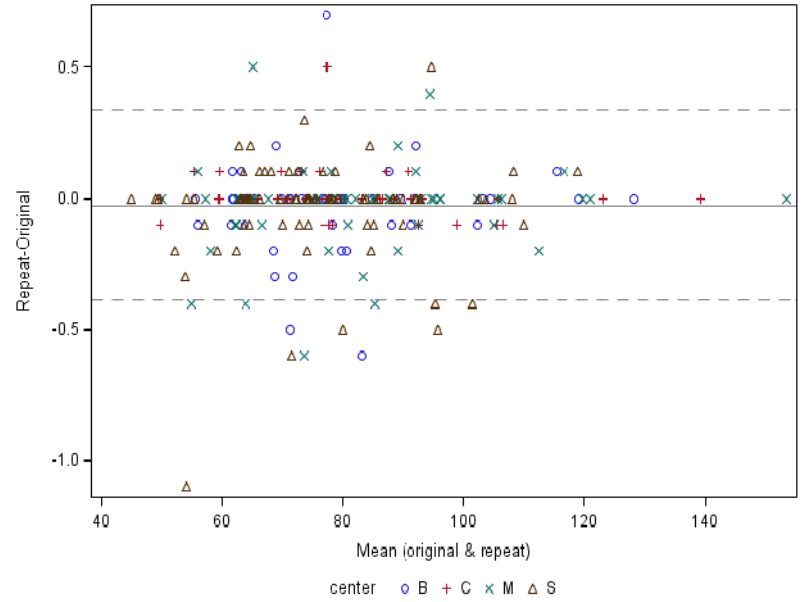
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Bland-Altman plot associated to Table 1. Reliability of Anthropometric Measurements

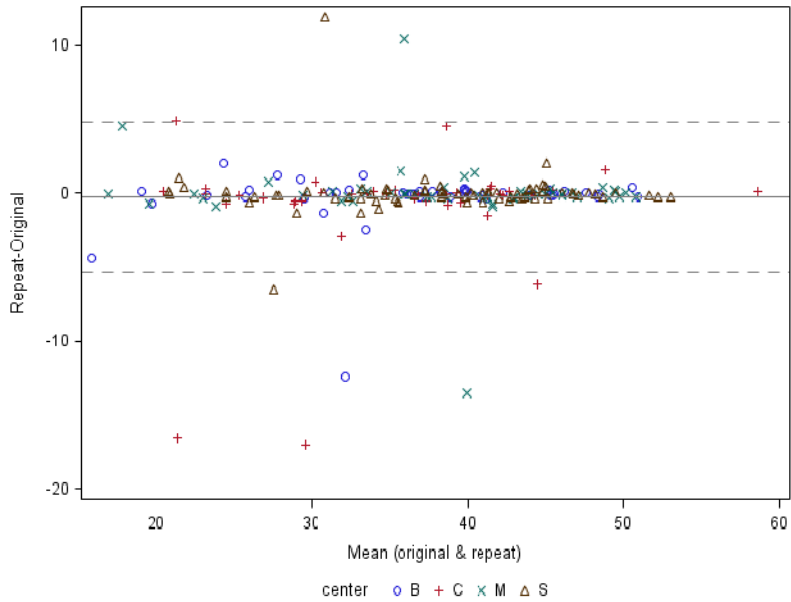
standing height (ANT2\_pvar)



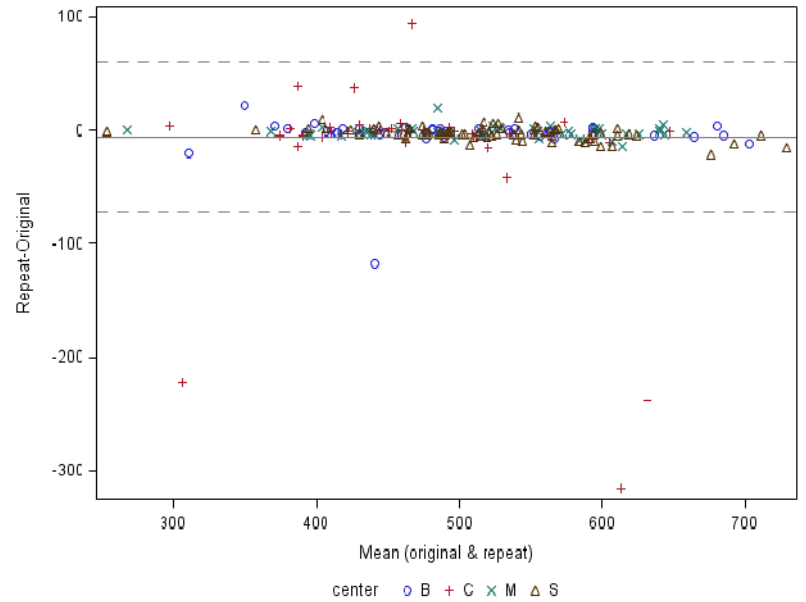
weight (ANT4\_pvar)



fat (%) (ANT5\_pvar)



impedance (ANT6\_pvar)

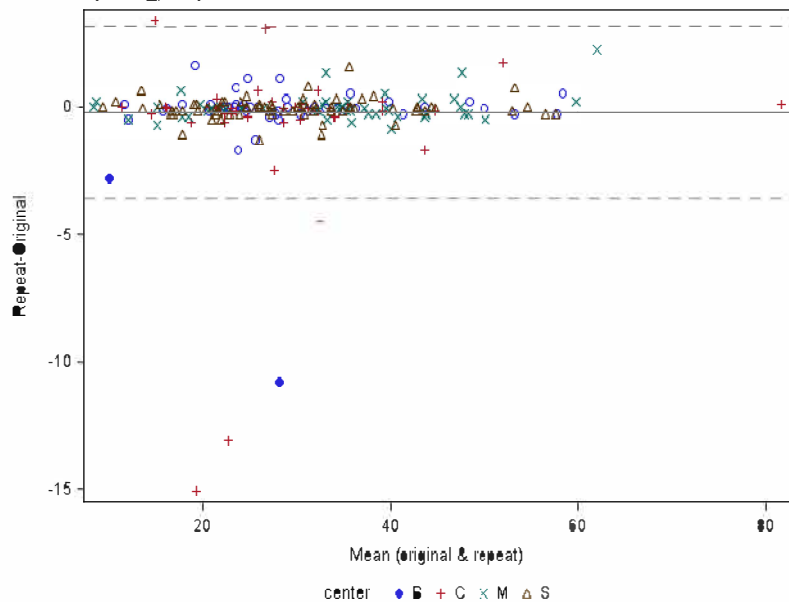




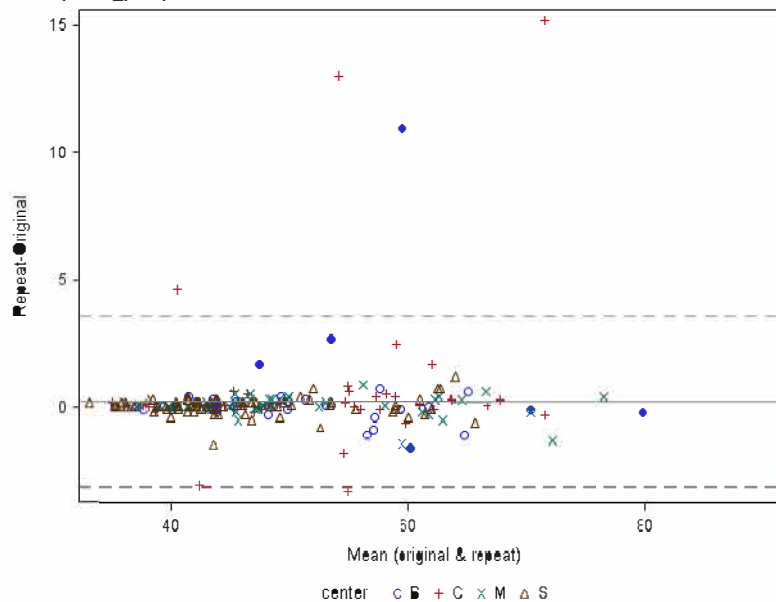
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## Bland-Altman plot associated to Table 1. Reliability of Anthropometric Measurements

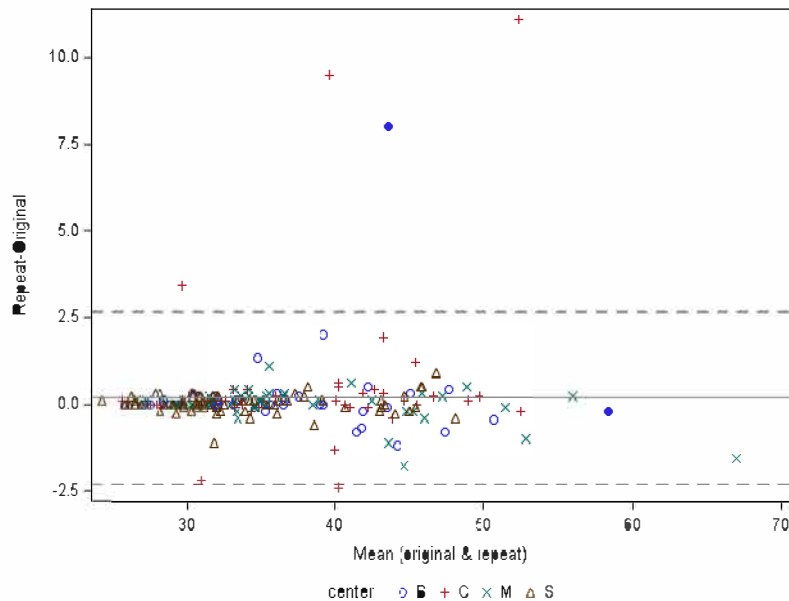
fat mass (ANT7\_pvar)



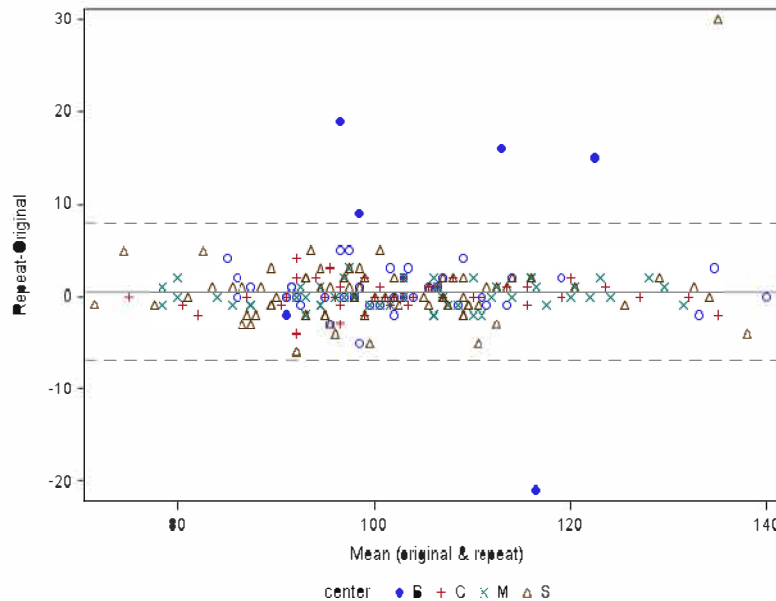
FFM (ANT8\_pvar)



TBW (ANT9\_pvar)

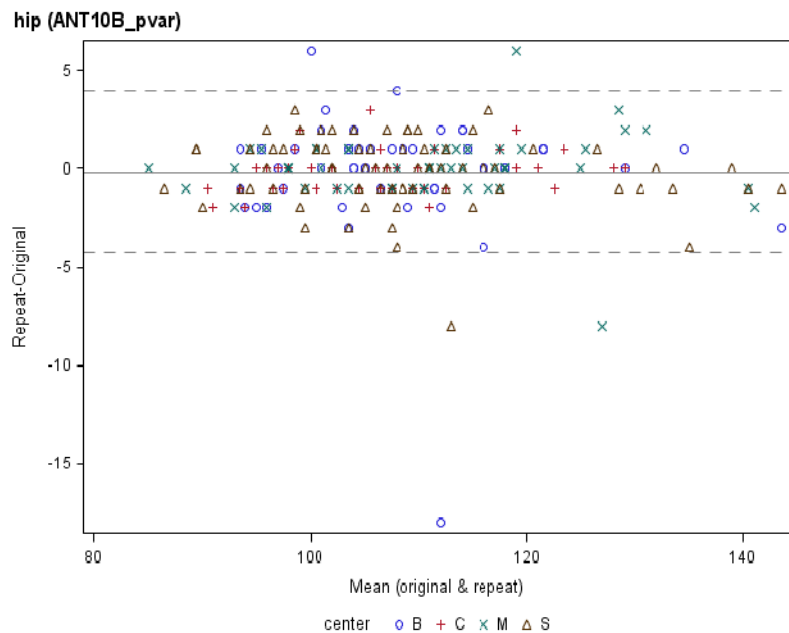


waist (ANT10A\_pvar)



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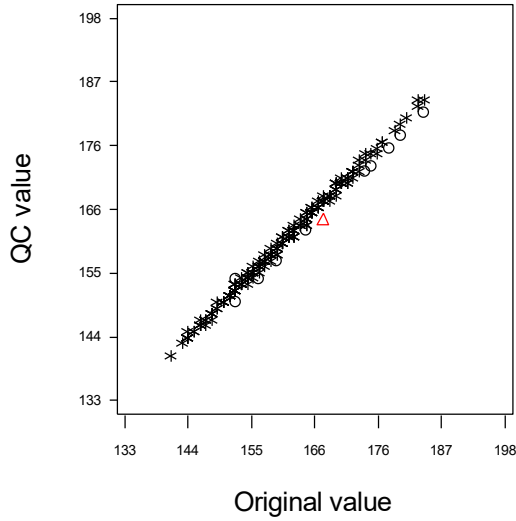
Bland-Altman plot associated to Table 1. Reliability of Anthropometric Measurements



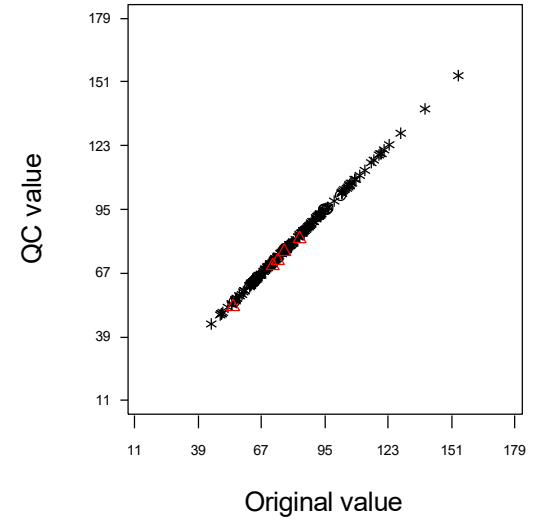
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## Reliability of Anthropometric Measurements

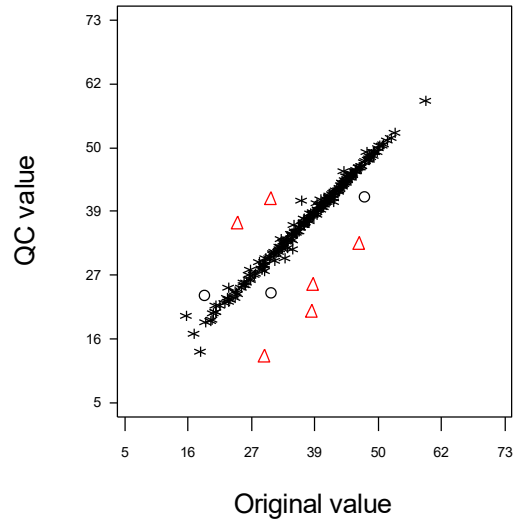
standing height (ANT2)



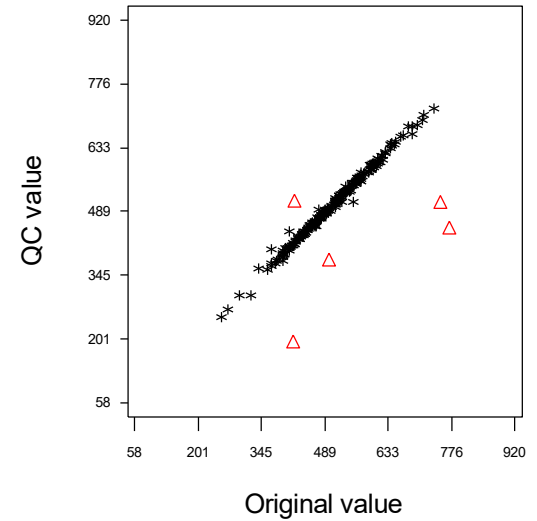
weight (ANT4)



fat (%) (ANT5)



impedance (ANT6)

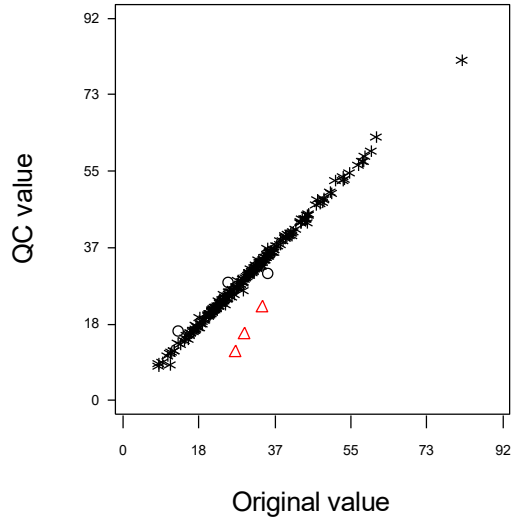


Circles indicate differences larger than 2 SD, and triangles larger than 3 SD

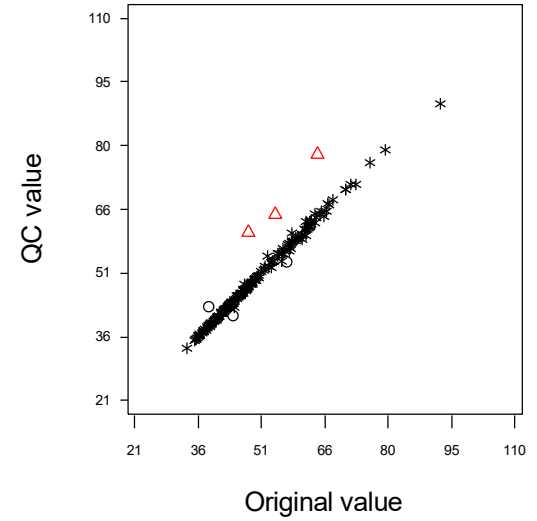
# HCHS/SOL Quality Control Report May 2024

## Reliability of Anthropometric Measurements

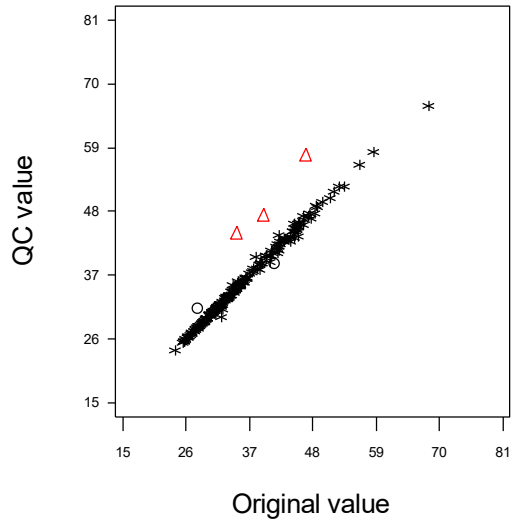
fat mass (ANT7)



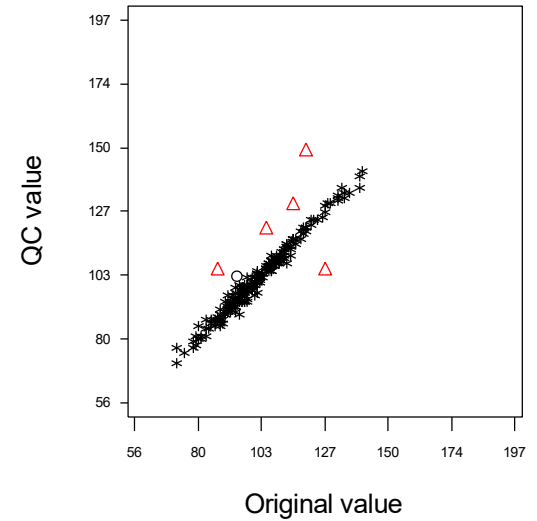
FFM (ANT8)



TBW (ANT9)



waist (ANT10A)

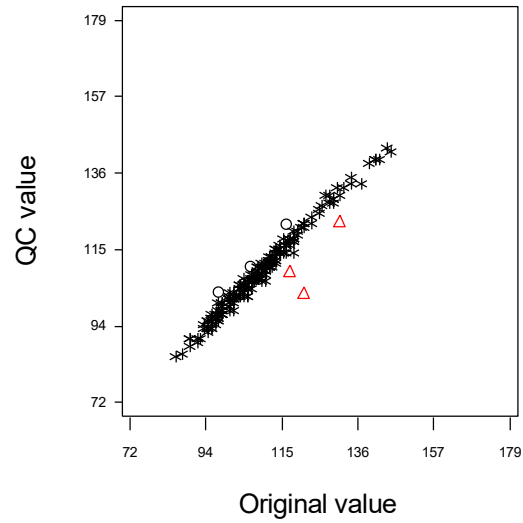


Circles indicate differences larger than 2 SD, and triangles larger than 3 SD

# HCHS/SOL Quality Control Report May 2024

## Reliability of Anthropometric Measurements

hip (ANT10B)



Circles indicate differences larger than 2 SD, and triangles larger than 3 SD

## HCHS/SOL Quality Control Report, May 2024

**Table 2a. Reliability of laboratory measurements (Tube 1: 9 mL red-stoppered (serum))**

	N	Mean	QC Pairs				CV (4)	Repli-	Original	Difference (replicate-original)			pval (5)
			Mean	Within SD (Lab) (1)	Between SD (2)	Reliab (3)		Mean		Mean	Mean	95% CI	
Total cholesterol (mg/dL) (LABA66)													
Bronx	198	182.3	4.90	37.91	0.98	2.7	182.3	182.4	-0.09	-1.06	0.88	0.48	0.709
*Bronx	201	182.5	6.58	37.89	0.97	3.6	182.3	182.7	-0.43	-1.72	0.86	0.48	0.657
Chicago	290	180.0	2.91	41.43	1.00	1.6	179.9	180.1	-0.19	-0.66	0.29	0.50	0.950
*Chicago	297	180.1	5.04	41.06	0.99	2.8	180.0	180.3	-0.29	-1.10	0.52	0.49	0.901
Miami	266	196.0	7.20	41.15	0.97	3.7	199.0	193.0	6.02	5.03	7.00	0.82	0.000
*Miami	270	196.3	9.38	40.86	0.95	4.8	199.4	193.1	6.34	4.95	7.73	0.81	0.000
San Diego	158	193.0	3.24	43.20	0.99	1.7	193.6	192.4	1.16	0.46	1.85	0.66	0.000
*San Diego	161	193.4	9.58	42.44	0.95	5.0	194.5	192.4	2.09	0.02	4.17	0.66	0.000
Overall	914	187.4	5.03	41.43	0.99	2.7	188.3	186.5	1.86	1.41	2.30	0.62	0.000
*Overall	929	187.6	7.68	41.14	0.97	4.1	188.6	186.6	2.02	1.33	2.70	0.62	0.000
HDL-cholesterol (mg/dL) (LABA68)													
Bronx	197	54.0	1.21	15.44	0.99	2.2	53.93	54.09	-0.16	-0.40	0.08	0.44	0.178
*Bronx	200	54.2	1.62	15.64	0.99	3.0	53.99	54.33	-0.34	-0.65	-0.03	0.43	0.113
Chicago	291	49.1	0.76	13.21	1.00	1.6	49.10	49.17	-0.07	-0.20	0.05	0.47	0.468
*Chicago	297	49.4	1.30	13.58	0.99	2.6	49.37	49.46	-0.09	-0.30	0.12	0.47	0.477
Miami	262	52.1	1.99	13.67	0.98	3.8	52.68	51.49	1.19	0.89	1.50	0.77	0.000
*Miami	270	52.1	2.94	13.45	0.95	5.6	52.55	51.64	0.91	0.42	1.39	0.75	0.000
San Diego	157	52.9	1.46	13.62	0.99	2.8	52.97	52.87	0.11	-0.22	0.43	0.57	0.228
*San Diego	161	53.3	3.63	13.56	0.93	6.8	53.32	53.24	0.07	-0.72	0.87	0.56	0.237
Overall	907	51.8	1.32	14.15	0.99	2.5	51.92	51.67	0.26	0.14	0.38	0.58	0.000
*Overall	928	51.9	2.43	14.11	0.97	4.7	51.97	51.80	0.17	-0.05	0.40	0.57	0.000

	N	Mean	QC Pairs				CV (4)	Repl-	Original	Difference (replicate-original)				
			Mean	Mean	Mean	95% CI		Prop > 0		pval (5)				
			Within SD (Lab) (1)	Between SD (2)	Reliab (3)		Mean	Mean	Mean	95% CI	Prop > 0	pval (5)		
LDL-cholesterol (mg/dL) (LABA69)														
Bronx	194	103.8	3.38	33.29	0.99	3.3	103.7	103.9	-0.18	-0.85	0.49	0.48	0.708	
*Bronx	198	104.2	4.89	33.44	0.98	4.7	104.0	104.4	-0.44	-1.41	0.52	0.48	0.604	
Chicago	286	102.9	2.50	36.33	1.00	2.4	102.9	103.0	-0.12	-0.53	0.30	0.49	0.898	
*Chicago	291	102.9	4.87	35.93	0.98	4.7	102.8	102.9	-0.09	-0.89	0.70	0.49	0.849	
Miami	261	115.1	5.03	34.90	0.98	4.4	117.1	113.2	3.94	3.22	4.66	0.81	0.000	
*Miami	265	115.4	5.71	34.73	0.97	5.0	117.4	113.4	4.00	3.16	4.85	0.80	0.000	
San Diego	157	113.0	3.13	39.92	0.99	2.8	113.6	112.5	1.03	0.35	1.70	0.64	0.001	
*San Diego	160	113.2	6.71	39.46	0.97	5.9	114.1	112.3	1.74	0.29	3.19	0.64	0.001	
Overall	898	108.4	3.66	36.32	0.99	3.4	109.0	107.8	1.25	0.92	1.58	0.61	0.000	
*Overall	914	108.6	5.49	36.10	0.98	5.1	109.3	107.9	1.34	0.84	1.83	0.61	0.000	
Triglycerides (mg/dL) (LABA107)														
Bronx	196	119.2	3.22	63.47	1.00	2.7	120.0	118.4	1.62	1.02	2.22	0.73	0.000	
*Bronx	200	123.2	4.63	73.95	1.00	3.8	123.8	122.6	1.18	0.28	2.08	0.72	0.000	
Chicago	292	139.6	2.19	87.68	1.00	1.6	139.6	139.5	0.03	-0.33	0.39	0.52	0.649	
*Chicago	297	139.4	6.43	87.02	0.99	4.6	139.1	139.7	-0.53	-1.56	0.51	0.51	0.797	
Miami	267	143.6	6.73	81.32	0.99	4.7	145.5	141.8	3.68	2.63	4.74	0.83	0.000	
*Miami	270	144.5	22.53	80.05	0.93	15.6	147.6	141.3	6.34	2.61	10.07	0.83	0.000	
San Diego	157	134.8	2.64	67.76	1.00	2.0	135.4	134.3	1.09	0.53	1.65	0.69	0.000	
*San Diego	161	134.5	8.10	66.79	0.99	6.0	135.2	133.7	1.43	-0.33	3.19	0.69	0.000	
Overall	918	136.2	4.45	79.94	1.00	3.3	137.0	135.5	1.48	1.09	1.88	0.69	0.000	
*Overall	928	136.5	13.30	79.26	0.97	9.7	137.6	135.4	2.18	0.97	3.38	0.69	0.000	

\* Outliers defined as the pair difference >3SD

(1) Standard deviation = square root (within-subject variance)

(2) Standard deviation = square root (between-subject variance)

(3) The reliability coefficient is the ICC (intra-class correlation coefficient) which is an estimate of the correlation between repeated measurements

(4) The coefficient of variation (CV) is the lab SD expressed as a percent of the mean of QC pairs

(5) P-value for test that the proportion of positive differences = 50% (test for systematic bias)

## HCHS/SOL Quality Control Report, May 2024

**Table 2b. Reliability of laboratory measurements (Tube 4: 4 mL lavender-stoppered (EDTA))**

	N	Mean	QC Pairs				CV (4)	Repli-	Original	Difference (replicate-original)			pval (5)
			Mean	Within SD (Lab) (1)	Between SD (2)	Reliab (3)		Mean		Mean	Mean	95% CI	
% Glycosylated Hemoglobin (LABA72)													
Bronx	199	6.3	0.05	1.38	1.00	0.8	6.33	6.33	-0.00	-0.01	0.01	0.49	0.911
*Bronx	200	6.3	0.36	1.36	0.93	5.7	6.36	6.33	0.03	-0.04	0.10	0.49	1.000
Chicago	298	6.4	0.04	1.59	1.00	0.7	6.36	6.35	0.00	-0.01	0.01	0.53	0.631
*Chicago	299	6.4	0.06	1.59	1.00	1.0	6.36	6.35	0.01	-0.00	0.02	0.53	0.566
Miami	269	6.0	0.06	1.18	1.00	1.0	5.98	5.99	-0.01	-0.02	0.00	0.48	0.614
*Miami	270	6.0	0.06	1.20	1.00	1.1	5.99	6.00	-0.01	-0.02	0.01	0.48	0.675
San Diego	159	6.3	0.06	1.65	1.00	1.0	6.30	6.31	-0.01	-0.02	0.01	0.46	0.556
*San Diego	161	6.3	0.53	1.61	0.90	8.4	6.28	6.37	-0.08	-0.20	0.03	0.45	0.416
Overall	927	6.2	0.06	1.46	1.00	1.0	6.23	6.24	-0.00	-0.01	0.00	0.49	0.765
*Overall	930	6.2	0.28	1.45	0.96	4.5	6.24	6.25	-0.01	-0.03	0.02	0.49	0.728

\* Outliers defined as the pair difference >3SD

(1) Standard deviation = square root (within-subject variance)

(2) Standard deviation = square root (between-subject variance)

(3) The reliability coefficient is the ICC (intra-class correlation coefficient) which is an estimate of the correlation between repeated measurements

(4) The coefficient of variation (CV) is the lab SD expressed as a percent of the mean of QC pairs

(5) P-value for test that the proportion of positive differences = 50% (test for systematic bias)

Created by HC325301b (ucepxs) on 07JUN24 10:54  
Based on the HCHS Visit3 2406 retrieval data created in June 4, 2024



## HCHS/SOL Quality Control Report, May 2024

**Table 2c. Reliability of laboratory measurements (Tube 5: 10 mL lavender-stoppered (EDTA))**

	N	Mean	QC Pairs				CV (4)	Repli- cate	Original	Difference (replicate-original)			pval (5)
			Within SD (Lab) (1)	Between SD (2)	Reliab (3)	Mean		Mean	Mean	95% CI	Prop > 0		
Glucose, fasting (mg/dL) (LABA70)													
Bronx	199	116.5	1.38	40.88	1.00	1.2	116.5	116.5	-0.02	-0.29	0.26	0.45	0.295
*Bronx	201	116.8	1.54	41.01	1.00	1.3	116.9	116.8	0.08	-0.22	0.39	0.46	0.379
Chicago	295	121.7	1.45	42.96	1.00	1.2	121.7	121.7	0.01	-0.22	0.24	0.49	0.891
*Chicago	298	121.7	3.46	42.70	0.99	2.8	121.8	121.6	0.19	-0.36	0.75	0.50	0.946
Miami	265	115.0	2.88	41.36	1.00	2.5	114.3	115.7	-1.36	-1.82	-0.90	0.20	0.000
*Miami	270	115.4	7.65	40.79	0.97	6.6	114.6	116.2	-1.61	-2.89	-0.33	0.21	0.000
San Diego	160	112.3	2.13	32.29	1.00	1.9	112.0	112.7	-0.71	-1.16	-0.25	0.33	0.000
*San Diego	161	112.7	7.55	32.03	0.95	6.7	112.7	112.6	0.11	-1.55	1.76	0.34	0.000
Overall	919	117.1	1.84	40.53	1.00	1.6	116.9	117.3	-0.43	-0.59	-0.26	0.37	0.000
*Overall	930	117.3	5.59	40.18	0.98	4.8	117.1	117.4	-0.37	-0.88	0.14	0.37	0.000

\* Outliers defined as the pair difference >3SD

(1) Standard deviation = square root (within-subject variance)

(2) Standard deviation = square root (between-subject variance)

(3) The reliability coefficient is the ICC (intra-class correlation coefficient) which is an estimate of the correlation between repeated measurements

(4) The coefficient of variation (CV) is the lab SD expressed as a percent of the mean of QC pairs

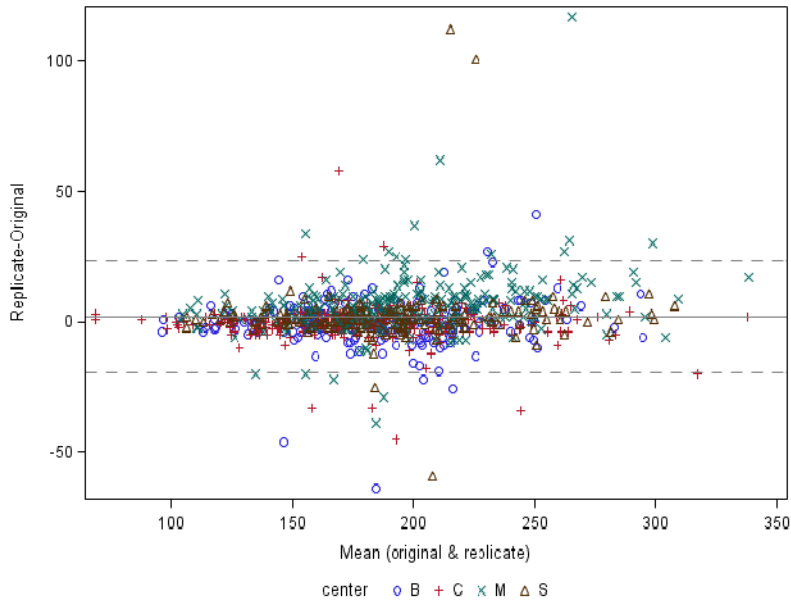
(5) P-value for test that the proportion of positive differences = 50% (test for systematic bias)

Created by HC325301c (ucepxs) on 07JUN24 10:55  
Based on the HCHS Visit3 2406 retrieval data created in June 4, 2024

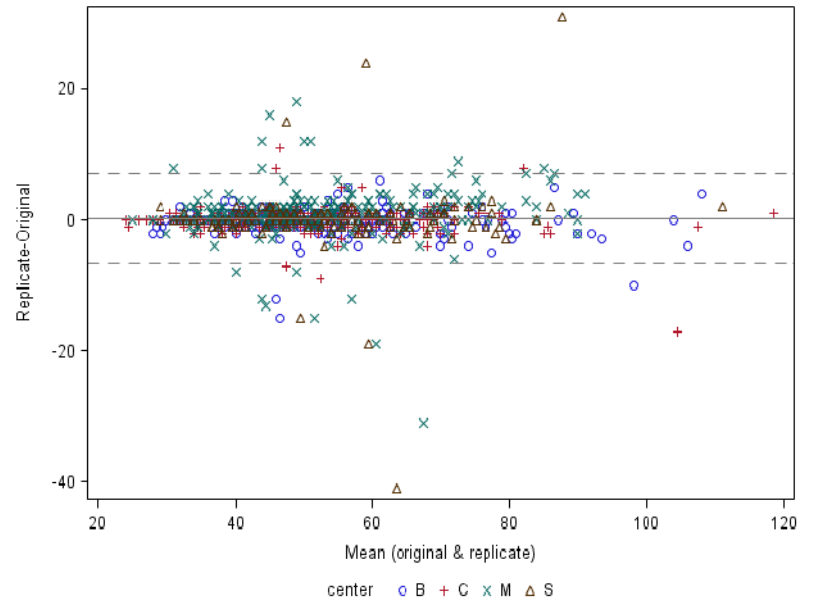
# HCHS/SOL Quality Control Report, May 2024

Bland-Altman plot associated to Table 2a. Reliability of laboratory measurements (Tube 1: 9 mL red-stoppered (serum))

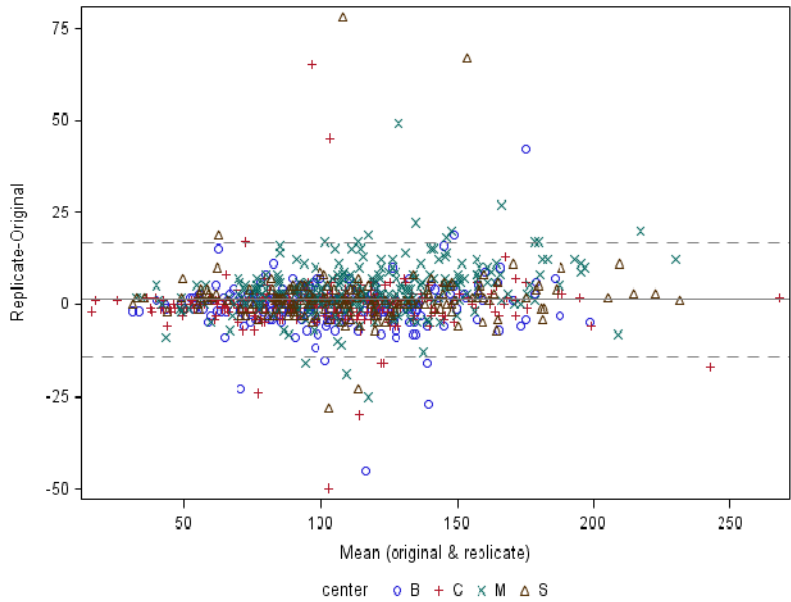
**Cholesterol, Total (mg/dL) (laba66\_pvar)**



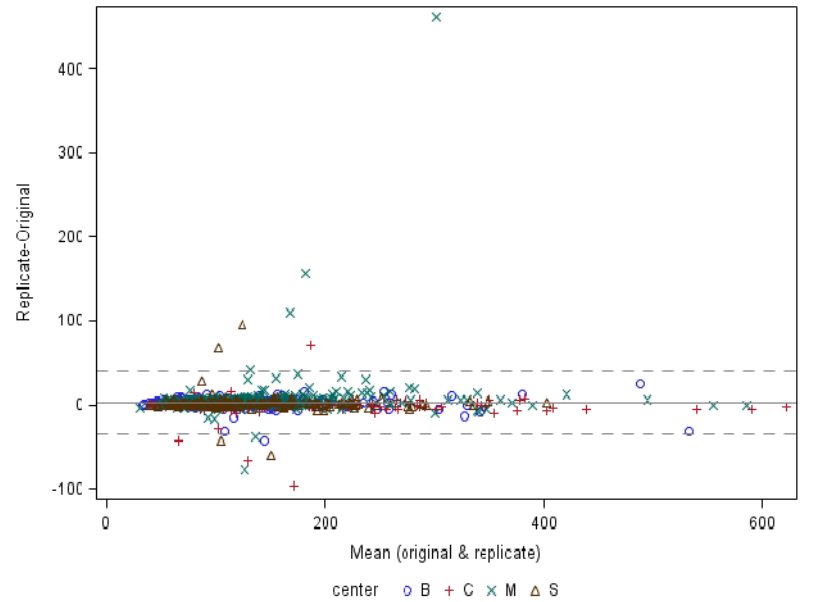
**HDL-cholesterol (mg/dL) (laba68\_pvar)**



**LDL-cholesterol (mg/dL) (laba69\_pvar)**



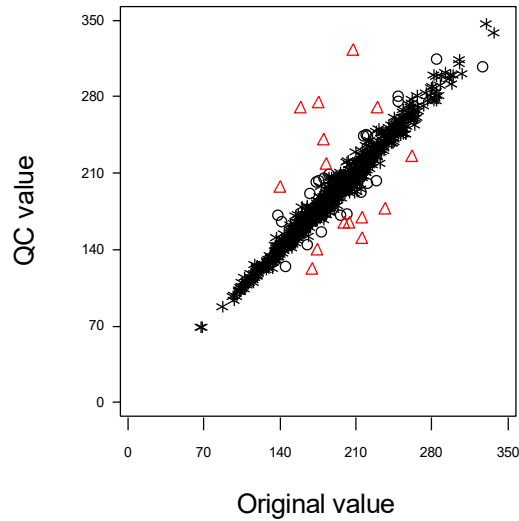
**TG Triglycerides (mg/dL) (laba107\_pvar)**



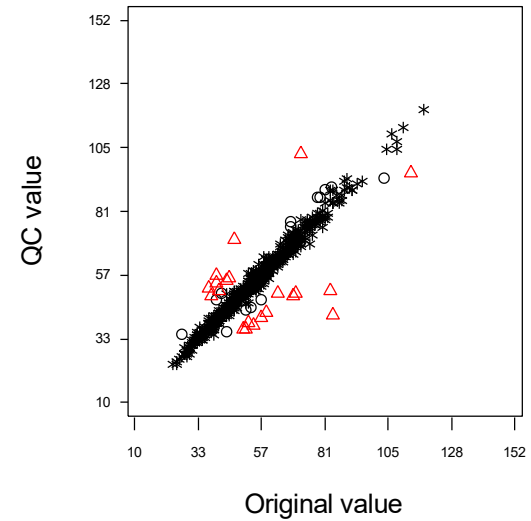
# HCHS/SOL Quality Control Report, May 2024

Figure associated to Table 2a. Reliability of laboratory measurements (Tube 1: 9 mL red-stoppered (serum))

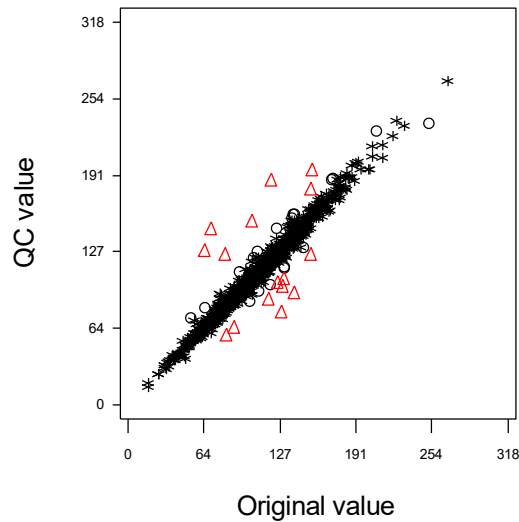
**Cholesterol, Total (mg/dL) (LABA66)**



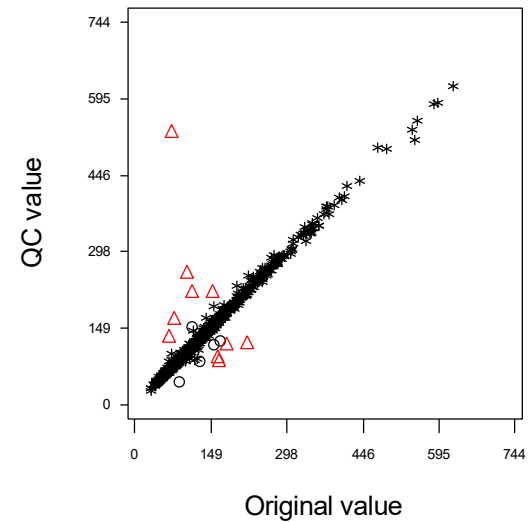
**HDL-cholesterol (mg/dL) (LABA68)**



**LDL-cholesterol (mg/dL) (LABA69)**



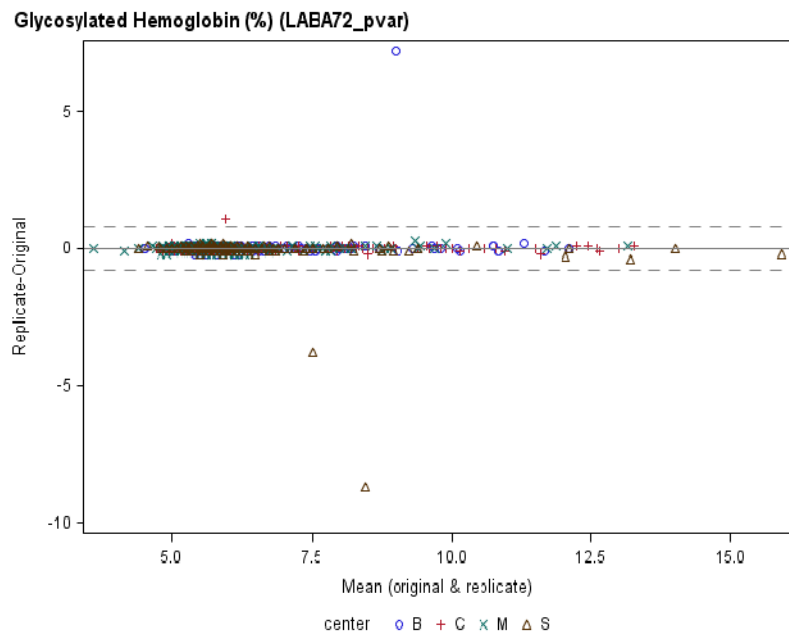
**TG Triglycerides (mg/dL) (LABA107)**



Circles indicate differences larger than 2 SD, and triangles larger than 3 SD

# HCHS/SOL Quality Control Report, May 2024

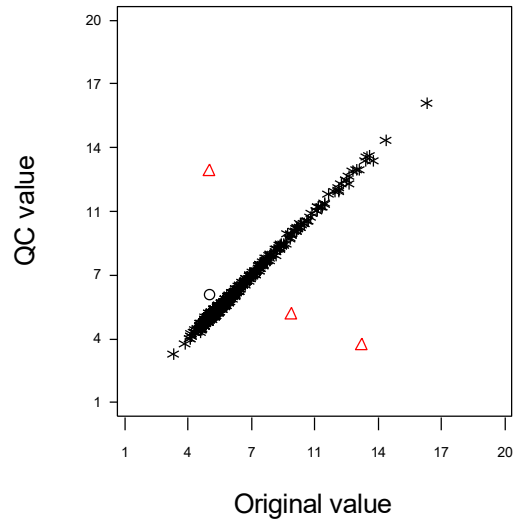
Bland-Altman plot associated to Table 2b. Reliability of laboratory measurements (Tube 4: 4 mL lavender-stoppered (EDTA))



# HCHS/SOL Quality Control Report, May 2024

Figure associated to Table 2b. Reliability of laboratory measurements (Tube 4: 4 mL lavender-stoppered (EDTA))

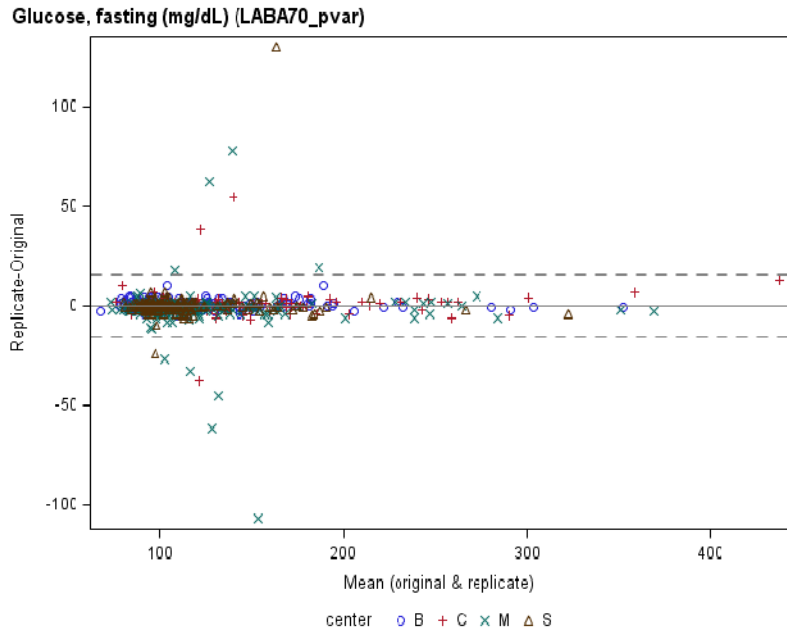
## Glycosylated Hemoglobin (%) (LABA72)



Circles indicate differences larger than 2 SD, and triangles larger than 3 SD

# HCHS/SOL Quality Control Report, May 2024

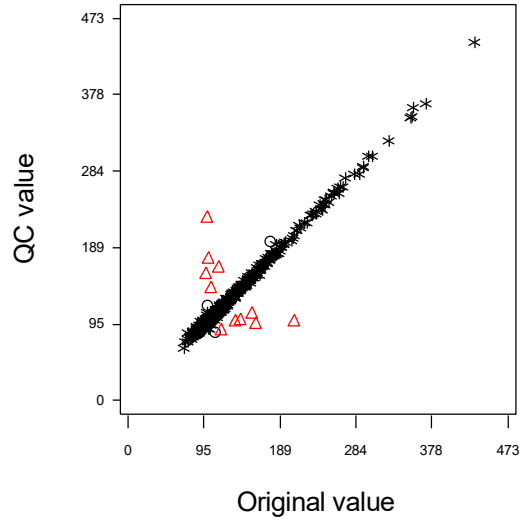
Bland-Altman plot associated to Table 2c. Reliability of laboratory measurements (Tube 5: 10 mL lavender-stoppered (EDTA))



# HCHS/SOL Quality Control Report, May 2024

Figure associated to Table 2c. Reliability of laboratory measurements (Tube 5: 10 mL lavender-stoppered (EDTA))

Glucose, fasting (mg/dL) (LABA70)



Circles indicate differences larger than 2 SD, and triangles larger than 3 SD

## HCHS/SOL Quality Control Report, September 2024

**Table 6. Number of days between NAFLD blood collection and lab receipt.**

	<u>Bronx</u> (N=424)		<u>Chicago</u> (N=559)		<u>Miami</u> (N=281)		<u>San Diego</u> (N=398)		<u>Overall</u> (N=1662)	
	N	%	N	%	N	%	N	%	N	%
<b>Day of week sample collected<sup>1</sup></b>										
Monday	37	8.7	48	8.6	13	4.6	49	12.3	147	8.8
Tuesday-Thursday	282	66.5	371	66.4	211	75.1	313	78.6	1177	70.8
Friday	105	24.8	46	8.2	55	19.6	35	8.8	241	14.5
Saturday	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Sunday	0	0.0	85	15.2	0	0.0	1	0.3	86	5.2
Missing date (NBB6)	0	0.0	9	1.6	2	0.7	0	0.0	11	0.7
<b>Q2. Different collection dates (NBB6 vs LAB dates)</b>										
	1	0.2	6	1.1	2	0.7	11	2.8	20	1.2
<b># Days between collection date and lab receipt<sup>2</sup></b>										
1	409	97.1	440	80.4	269	96.4	381	96.2	1499	91.2
2	7	1.7	91	16.6	1	0.4	9	2.3	108	6.6
3	2	0.5	2	0.4	5	1.8	0	0.0	9	0.5
4+	3	0.7	3	0.5	0	0.0	2	0.5	8	0.5

<sup>1</sup>Collection date (NBB6) from NAFLD Biospecimen Collection Form (NBB)

<sup>2</sup>Among participants with consistent collection dates



## HCHS/SOL Quality Control Report, May 2024

**Table 4. Percent of YES in the Biospecimen Collection Form (BIO) by field center and clinic date**

	<u>Bronx (N=1953)</u>		<u>Chicago (N=2490)</u>		<u>Miami (N=2278)</u>		<u>San Diego (N=2164)</u>		<u>Overall (N=8885)</u>	
	N	%	N	%	N	%	N	%	N	%
<b>Denominator (BIO forms)</b>										
Jan – Mar 2020	44	100.0	-	-	-	-	-	-	44	100.0
Jan – Mar 2021	15	100.0	32	100.0	115	100.0	-	-	162	100.0
Apr – June 2021	117	100.0	237	100.0	261	100.0	110	96.5	725	99.5
Jul – Sept 2021	176	100.0	189	100.0	318	100.0	162	100.0	845	100.0
Oct – Dec 2021	194	100.0	169	100.0	276	100.0	223	100.0	862	100.0
Jan – Mar 2022	67	100.0	242	99.6	237	100.0	217	99.5	763	99.7
Apr – June 2022	199	100.0	268	100.0	268	100.0	270	100.0	1005	100.0
Jul – Sept 2022	211	100.0	267	100.0	238	100.0	241	96.8	957	99.2
Oct – Dec 2022	245	100.0	281	100.0	125	100.0	247	100.0	898	100.0
Jan – Mar 2023	214	99.5	234	100.0	125	100.0	247	99.2	820	99.6
Apr – June 2023	139	100.0	248	100.0	128	100.0	176	100.0	691	100.0
Jul – Sept 2023	127	100.0	155	100.0	108	100.0	119	100.0	509	100.0
Oct – Dec 2023	172	100.0	118	99.2	71	100.0	108	100.0	469	99.8
Jan 2024	33	100.0	47	100.0	8	100.0	44	97.8	132	99.2
<b>bio8: fasting blood collected before snack</b>										
Overall	1943	99.5	2480	99.6	2268	99.6	2147	99.2	8838	99.5
Jan – Mar 2020	44	100.0	-	-	-	-	-	-	44	100.0
Jan – Mar 2021	15	100.0	32	100.0	114	99.1	-	-	161	99.4
Apr – June 2021	116	99.1	235	99.2	259	99.2	107	97.3	717	98.9
Jul – Sept 2021	176	100.0	188	99.5	318	100.0	159	98.1	841	99.5
Oct – Dec 2021	193	99.5	169	100.0	276	100.0	221	99.1	859	99.7
Jan – Mar 2022	66	98.5	240	99.2	237	100.0	216	99.5	759	99.5
Apr – June 2022	197	99.0	267	99.6	266	99.3	270	100.0	1000	99.5
Jul – Sept 2022	210	99.5	267	100.0	237	99.6	240	99.6	954	99.7
Oct – Dec 2022	245	100.0	280	99.6	124	99.2	247	100.0	896	99.8
Jan – Mar 2023	214	100.0	234	100.0	125	100.0	246	99.6	819	99.9

	<b>Bronx (N=1953)</b>		<b>Chicago (N=2490)</b>		<b>Miami (N=2278)</b>		<b>San Diego (N=2164)</b>		<b>Overall (N=8885)</b>	
	N	%	N	%	N	%	N	%	N	%
<b>Apr – June 2023</b>	138	99.3	245	98.8	128	100.0	174	98.9	685	99.1
<b>Jul – Sept 2023</b>	126	99.2	155	100.0	107	99.1	117	98.3	505	99.2
<b>Oct – Dec 2023</b>	171	99.4	118	100.0	69	97.2	106	98.1	464	98.9
<b>Jan 2024</b>	32	97.0	47	100.0	8	100.0	44	100.0	131	99.2
<b>bio9: 2 venipuncture attempts</b>										
<b>Overall</b>	241	12.3	214	8.6	263	11.5	181	8.4	899	10.1
<b>Jan – Mar 2020</b>	4	9.1	-	-	-	-	-	-	4	9.1
<b>Jan – Mar 2021</b>	3	20.0	8	25.0	14	12.2	-	-	25	15.4
<b>Apr – June 2021</b>	10	8.5	38	16.0	23	8.8	10	9.1	81	11.2
<b>Jul – Sept 2021</b>	22	12.5	6	3.2	32	10.1	11	6.8	71	8.4
<b>Oct – Dec 2021</b>	186	95.9	19	11.2	42	15.2	75	33.6	322	37.4
<b>Jan – Mar 2022</b>	10	14.9	15	6.2	52	21.9	11	5.1	88	11.5
<b>Apr – June 2022</b>	19	9.5	25	9.3	21	7.8	18	6.7	83	8.3
<b>Jul – Sept 2022</b>	41	19.4	30	11.2	22	9.2	27	11.2	120	12.5
<b>Oct – Dec 2022</b>	35	14.3	17	6.0	10	8.0	26	10.5	88	9.8
<b>Jan – Mar 2023</b>	34	15.9	19	8.1	24	19.2	21	8.5	98	12.0
<b>Apr – June 2023</b>	12	8.6	18	7.3	23	18.0	21	11.9	74	10.7
<b>Jul – Sept 2023</b>	21	16.5	13	8.4	23	21.3	5	4.2	62	12.2
<b>Oct – Dec 2023</b>	15	8.7	11	9.3	6	8.5	13	12.0	45	9.6
<b>Jan 2024</b>	2	6.1	3	6.4	1	12.5	5	11.4	11	8.3
<b>bio9: 3+ venipuncture attempts</b>										
<b>Overall</b>	124	6.3	82	3.3	112	4.9	50	2.3	368	4.1
<b>Jan – Mar 2020</b>	7	15.9	-	-	-	-	-	-	7	15.9
<b>Jan – Mar 2021</b>	4	26.7	1	3.1	3	2.6	-	-	8	4.9
<b>Apr – June 2021</b>	8	6.8	10	4.2	6	2.3	3	2.7	27	3.7
<b>Jul – Sept 2021</b>	13	7.4	2	1.1	8	2.5	4	2.5	27	3.2
<b>Oct – Dec 2021</b>	10	5.2	5	3.0	2	0.7	6	2.7	23	2.7
<b>Jan – Mar 2022</b>	1	1.5	2	0.8	20	8.4	3	1.4	26	3.4
<b>Apr – June 2022</b>	7	3.5	2	0.7	15	5.6	3	1.1	27	2.7
<b>Jul – Sept 2022</b>	21	10.0	19	7.1	13	5.5	9	3.7	62	6.5

	<b>Bronx (N=1953)</b>		<b>Chicago (N=2490)</b>		<b>Miami (N=2278)</b>		<b>San Diego (N=2164)</b>		<b>Overall (N=8885)</b>	
	N	%	N	%	N	%	N	%	N	%
<b>Oct – Dec 2022</b>	19	7.8	9	3.2	3	2.4	5	2.0	36	4.0
<b>Jan – Mar 2023</b>	12	5.6	14	6.0	15	12.0	6	2.4	47	5.7
<b>Apr – June 2023</b>	11	7.9	9	3.6	16	12.5	3	1.7	39	5.6
<b>Jul – Sept 2023</b>	9	7.1	2	1.3	5	4.6	2	1.7	18	3.5
<b>Oct – Dec 2023</b>	2	1.2	5	4.2	6	8.5	4	3.7	17	3.6
<b>Jan 2024</b>	0	0.0	2	4.3	0	0.0	2	4.5	4	3.0
<b>bio10: blood drawing incidents/problems</b>										
<b>Overall</b>	973	49.8	263	10.6	596	26.2	251	11.6	2083	23.4
<b>Jan – Mar 2020</b>	12	27.3	-	-	-	-	-	-	12	27.3
<b>Jan – Mar 2021</b>	7	46.7	11	34.4	9	7.8	-	-	27	16.7
<b>Apr – June 2021</b>	19	16.2	54	22.8	57	21.8	21	19.1	151	20.8
<b>Jul – Sept 2021</b>	130	73.9	125	66.1	230	72.3	43	26.5	528	62.5
<b>Jan – Mar 2022</b>	64	95.5	8	3.3	60	25.3	13	6.0	145	19.0
<b>Apr – June 2022</b>	190	95.5	8	3.0	50	18.7	30	11.1	278	27.7
<b>Jul – Sept 2022</b>	145	68.7	18	6.7	47	19.7	16	6.6	226	23.6
<b>Oct – Dec 2022</b>	153	62.4	7	2.5	24	19.2	19	7.7	203	22.6
<b>Jan – Mar 2023</b>	26	12.1	11	4.7	27	21.6	17	6.9	81	9.9
<b>Apr – June 2023</b>	14	10.1	5	2.0	19	14.8	8	4.5	46	6.7
<b>Jul – Sept 2023</b>	26	20.5	3	1.9	26	24.1	8	6.7	63	12.4
<b>Oct – Dec 2023</b>	11	6.4	3	2.5	16	22.5	12	11.1	42	9.0
<b>Jan 2024</b>	3	9.1	1	2.1	1	12.5	2	4.5	7	5.3
<b>bio10: blood drawing incidents/problems due to use of smaller tube</b>										
<b>Overall</b>	159	8.1	0	0.0	0	0.0	0	0.0	159	1.8
<b>Jan – Mar 2020</b>	0	0.0	-	-	-	-	-	-	0	0.0
<b>Jan – Mar 2021</b>	0	0.0	0	0.0	0	0.0	-	-	0	0.0
<b>Apr – June 2021</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Jul – Sept 2021</b>	11	6.3	0	0.0	0	0.0	0	0.0	11	1.3
<b>Oct – Dec 2021</b>	21	10.8	0	0.0	0	0.0	0	0.0	21	2.4
<b>Jan – Mar 2022</b>	3	4.5	0	0.0	0	0.0	0	0.0	3	0.4
<b>Apr – June 2022</b>	8	4.0	0	0.0	0	0.0	0	0.0	8	0.8

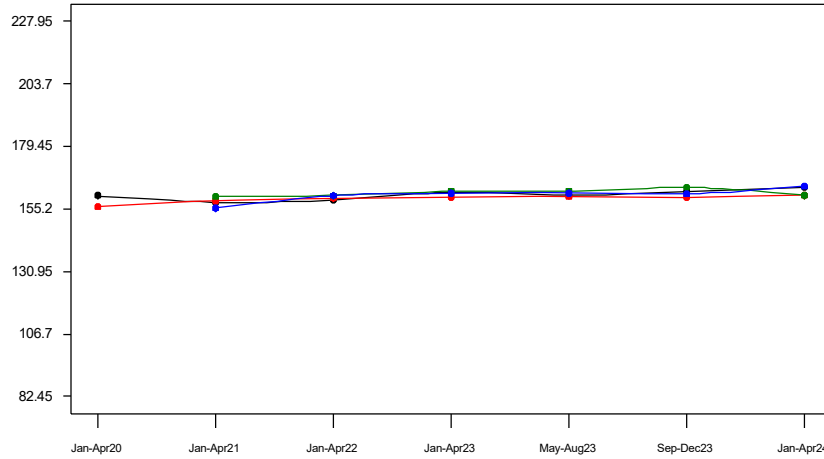
	<b>Bronx (N=1953)</b>		<b>Chicago (N=2490)</b>		<b>Miami (N=2278)</b>		<b>San Diego (N=2164)</b>		<b>Overall (N=8885)</b>	
	N	%	N	%	N	%	N	%	N	%
<b>Jul – Sept 2022</b>	66	31.3	0	0.0	0	0.0	0	0.0	66	6.9
<b>Oct – Dec 2022</b>	50	20.4	0	0.0	0	0.0	0	0.0	50	5.6
<b>Jan – Mar 2023</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Apr – June 2023</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Jul – Sept 2023</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Oct – Dec 2023</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Jan 2024</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>bio18: blood processing incidents</b>										
<b>Overall</b>	415	21.2	91	3.7	174	7.6	214	9.9	894	10.1
<b>Jan – Mar 2020</b>	9	20.5	-	-	-	-	-	-	9	20.5
<b>Jan – Mar 2021</b>	5	33.3	5	15.6	13	11.3	-	-	23	14.2
<b>Apr – June 2021</b>	18	15.4	19	8.0	14	5.4	20	18.2	71	9.8
<b>Jul – Sept 2021</b>	51	29.0	6	3.2	17	5.3	17	10.5	91	10.8
<b>Oct – Dec 2021</b>	32	16.5	7	4.1	9	3.3	21	9.4	69	8.0
<b>Jan – Mar 2022</b>	23	34.3	6	2.5	10	4.2	17	7.8	56	7.3
<b>Apr – June 2022</b>	50	25.1	13	4.9	7	2.6	37	13.7	107	10.6
<b>Jul – Sept 2022</b>	52	24.6	7	2.6	10	4.2	18	7.5	87	9.1
<b>Oct – Dec 2022</b>	36	14.7	8	2.8	2	1.6	18	7.3	64	7.1
<b>Jan – Mar 2023</b>	41	19.2	8	3.4	8	6.4	19	7.7	76	9.3
<b>Apr – June 2023</b>	34	24.5	6	2.4	11	8.6	18	10.2	69	10.0
<b>Jul – Sept 2023</b>	15	11.8	2	1.3	49	45.4	15	12.6	81	15.9
<b>Oct – Dec 2023</b>	42	24.4	2	1.7	23	32.4	6	5.6	73	15.6
<b>Jan 2024</b>	7	21.2	2	4.3	1	12.5	8	18.2	18	13.6
<b>bio18: blood processing incidents due to use of smaller tube</b>										
<b>Overall</b>	45	2.3	0	0.0	0	0.0	0	0.0	45	0.5
<b>Jan – Mar 2020</b>	0	0.0	-	-	-	-	-	-	0	0.0
<b>Jan – Mar 2021</b>	0	0.0	0	0.0	0	0.0	-	-	0	0.0
<b>Apr – June 2021</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Jul – Sept 2021</b>	1	0.6	0	0.0	0	0.0	0	0.0	1	0.1
<b>Oct – Dec 2021</b>	3	1.5	0	0.0	0	0.0	0	0.0	3	0.3

	<b>Bronx (N=1953)</b>		<b>Chicago (N=2490)</b>		<b>Miami (N=2278)</b>		<b>San Diego (N=2164)</b>		<b>Overall (N=8885)</b>	
	N	%	N	%	N	%	N	%	N	%
<b>Jan – Mar 2022</b>	1	1.5	0	0.0	0	0.0	0	0.0	1	0.1
<b>Apr – June 2022</b>	2	1.0	0	0.0	0	0.0	0	0.0	2	0.2
<b>Jul – Sept 2022</b>	23	10.9	0	0.0	0	0.0	0	0.0	23	2.4
<b>Oct – Dec 2022</b>	15	6.1	0	0.0	0	0.0	0	0.0	15	1.7
<b>Jan – Mar 2023</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Apr – June 2023</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Jul – Sept 2023</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Oct – Dec 2023</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Jan 2024</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>BIO20: urine sample</b>										
<b>Overall</b>	1945	99.6	2479	99.6	2272	99.7	2158	99.7	8854	99.7
<b>Jan – Mar 2020</b>	44	100.0	-	-	-	-	-	-	44	100.0
<b>Jan – Mar 2021</b>	15	100.0	32	100.0	115	100.0	-	-	162	100.0
<b>Apr – June 2021</b>	117	100.0	237	100.0	261	100.0	109	99.1	724	99.9
<b>Jul – Sept 2021</b>	176	100.0	189	100.0	317	99.7	161	99.4	843	99.8
<b>Oct – Dec 2021</b>	194	100.0	169	100.0	274	99.3	222	99.6	859	99.7
<b>Jan – Mar 2022</b>	67	100.0	242	100.0	235	99.2	216	99.5	760	99.6
<b>Apr – June 2022</b>	199	100.0	268	100.0	268	100.0	270	100.0	1005	100.0
<b>Jul – Sept 2022</b>	209	99.1	265	99.3	238	100.0	241	100.0	953	99.6
<b>Oct – Dec 2022</b>	245	100.0	280	99.6	124	99.2	247	100.0	896	99.8
<b>Jan – Mar 2023</b>	213	99.5	234	100.0	125	100.0	247	100.0	819	99.9
<b>Apr – June 2023</b>	138	99.3	247	99.6	128	100.0	175	99.4	688	99.6
<b>Jul – Sept 2023</b>	124	97.6	152	98.1	108	100.0	119	100.0	503	98.8
<b>Oct – Dec 2023</b>	171	99.4	117	99.2	71	100.0	107	99.1	466	99.4
<b>Jan 2024</b>	33	100.0	44	93.6	8	100.0	44	100.0	129	97.7

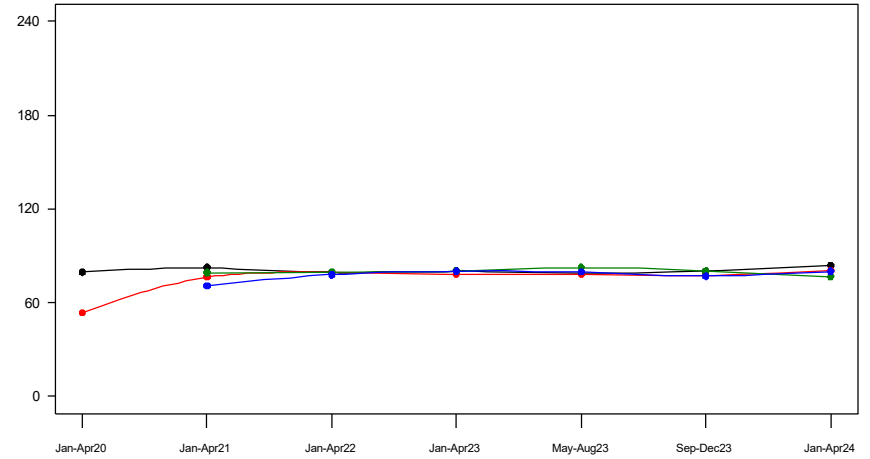
# HCHS/SOL Quality Control Report, May 2024

## Trend Analysis

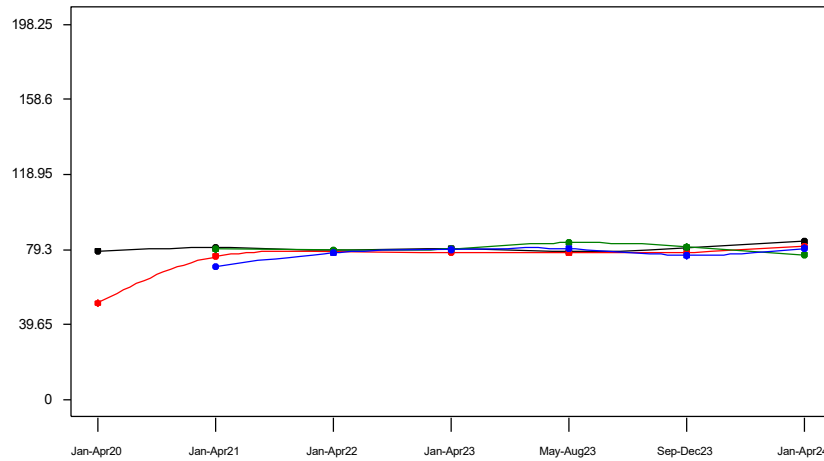
**Standing height (cm)**  
**ANT2**



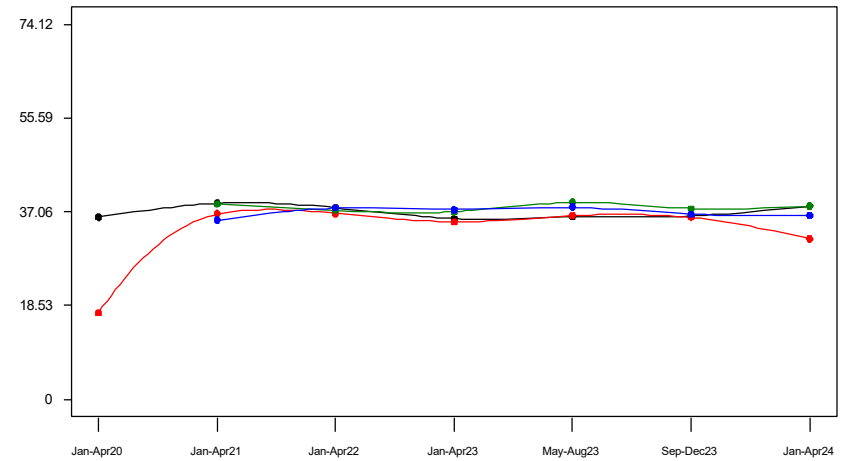
**Self reported weight (kg)**  
**ANT3A\_KG**



**Weight (kg)**  
**ANT4**



**fat (%)**  
**ANT5**

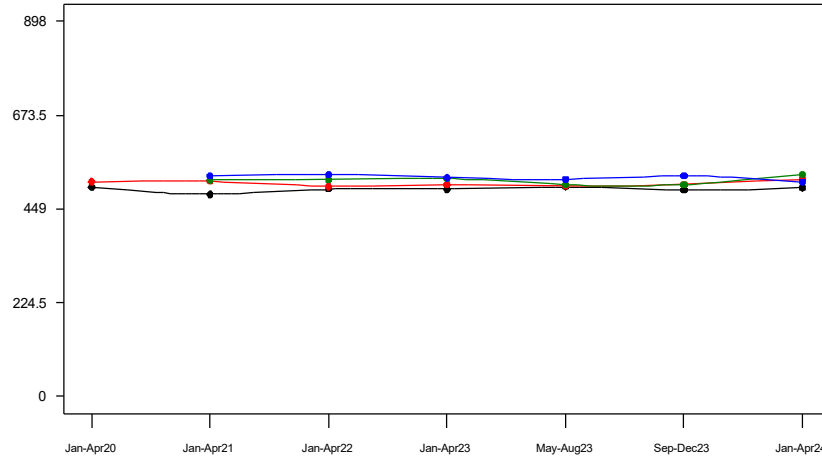


Bronx=BLACK, Chicago=RED, Miami=GREEN, San Diego=BLUE

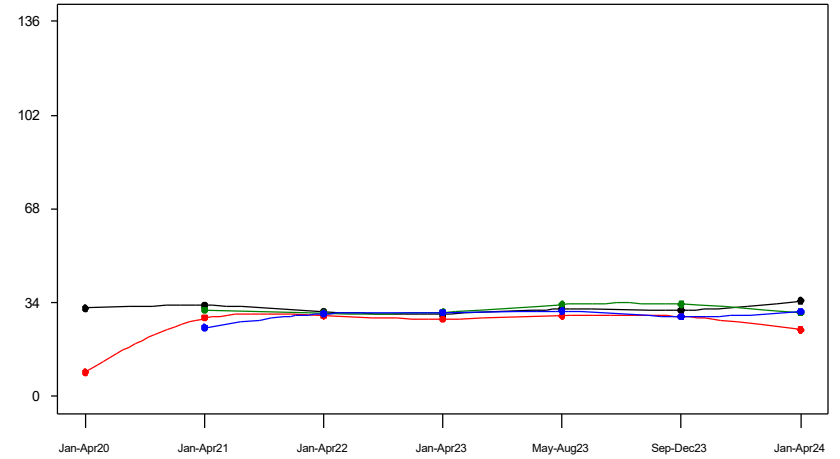
# HCHS/SOL Quality Control Report, May 2024

## Trend Analysis

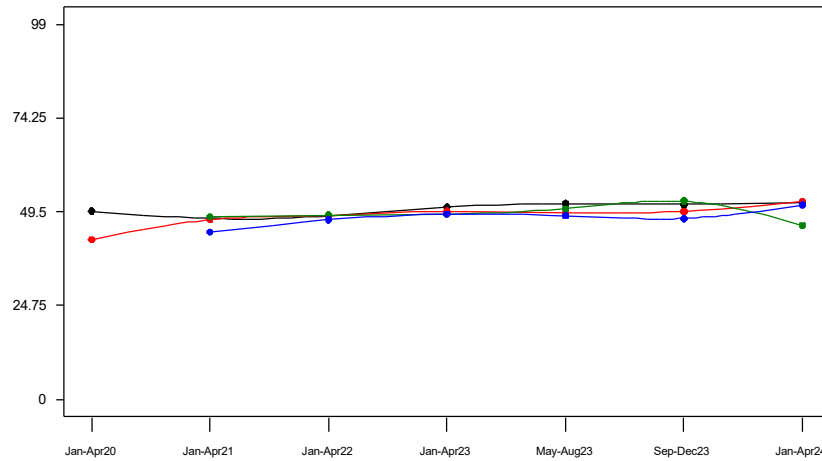
**Impedance (Ohms)**  
**ANT6**



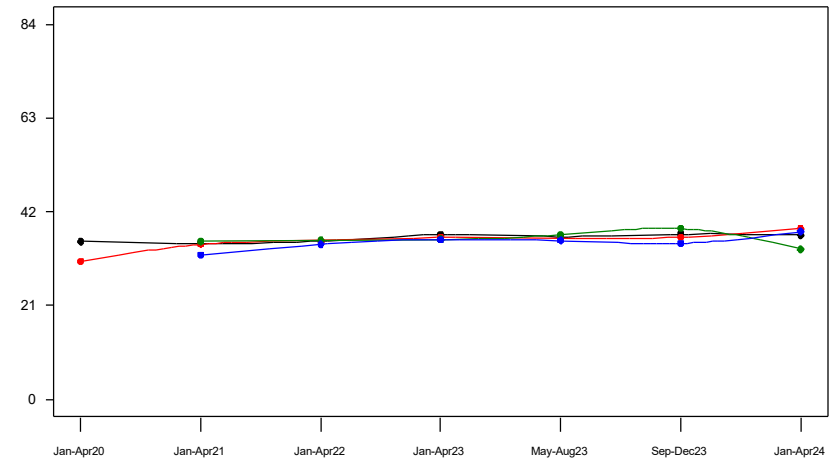
**Fat mass (kg)**  
**ANT7**



**Lean body mass (kg)**  
**ANT8**



**Total body water (kg)**  
**ANT9**

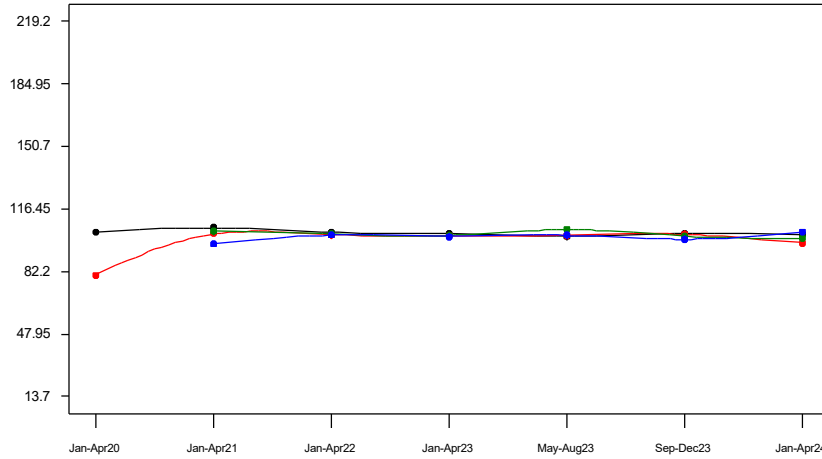


Bronx=BLACK, Chicago=RED, Miami=GREEN, San Diego=BLUE

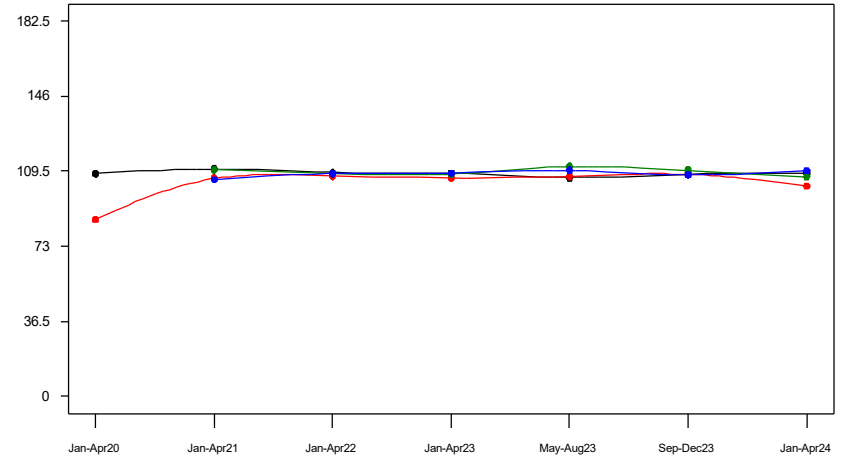
# HCHS/SOL Quality Control Report, May 2024

## Trend Analysis

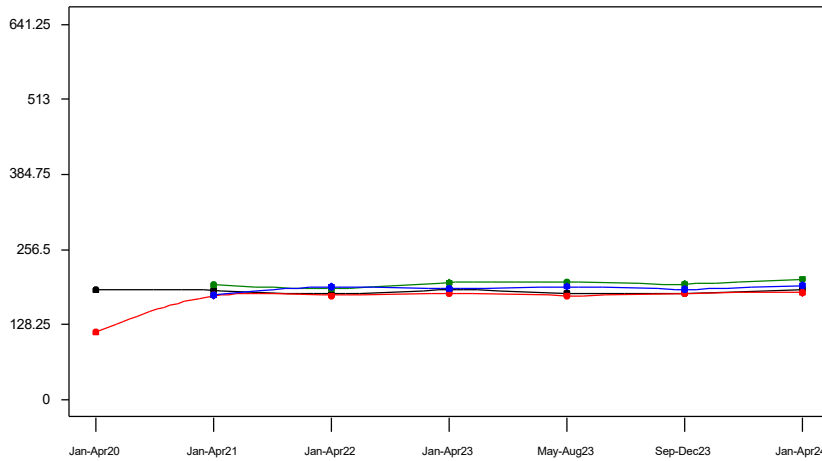
**Waist (cm)**  
**ANT10A**



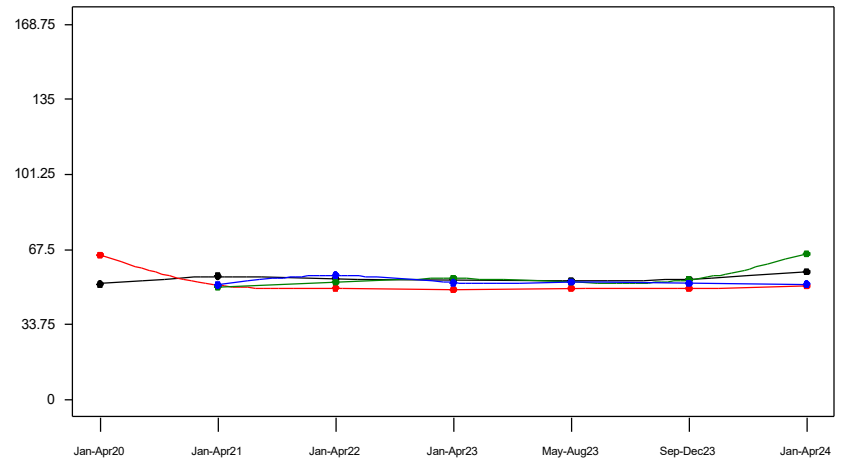
**Hip (cm)**  
**ANT10B**



**Cholesterol, Total (mg/dL)**  
**LABA66**



**HDL-cholesterol (mg/dL)**  
**LABA68**



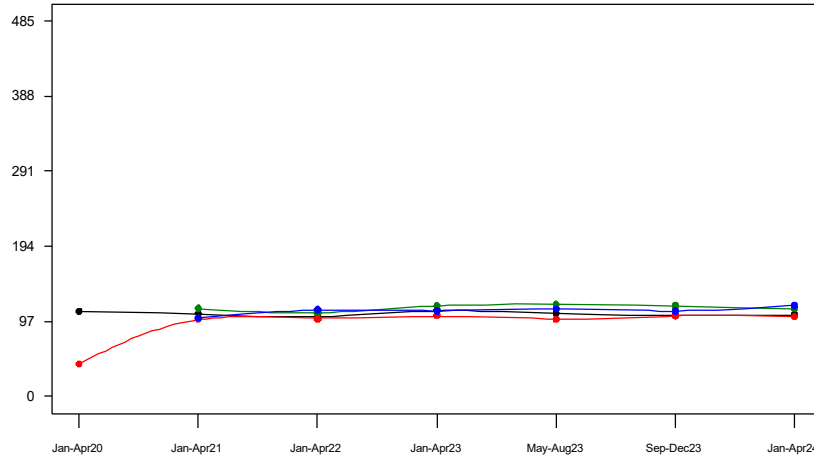
Bronx=BLACK, Chicago=RED, Miami=GREEN, San Diego=BLUE



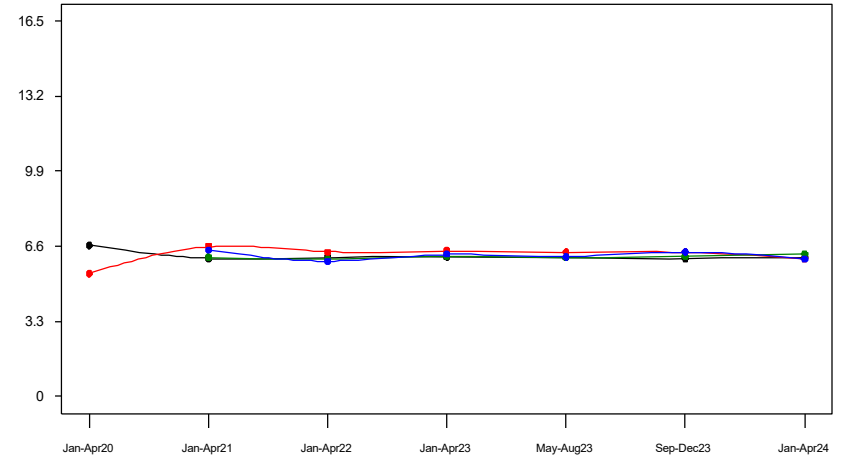
# HCHS/SOL Quality Control Report, May 2024

## Trend Analysis

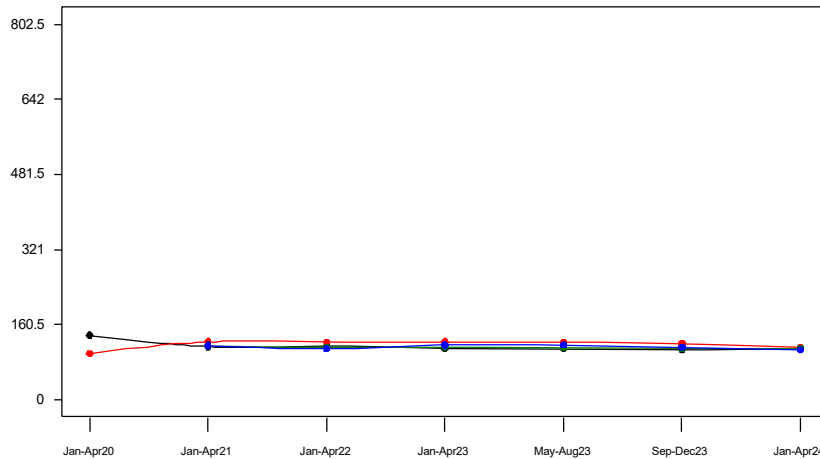
**LDL-cholesterol (mg/dL)**  
**LABA69**



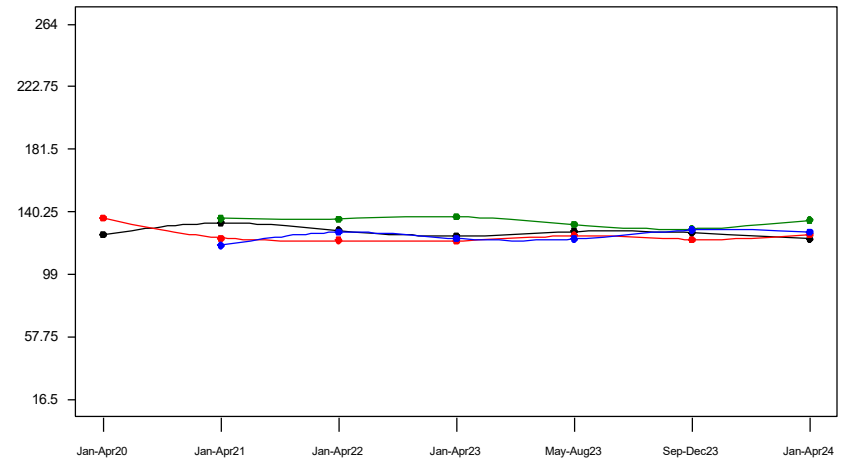
**Glycosylated Hemoglobin (%)**  
**LABA72**



**Glucose, fasting (mg/dL)**  
**LABA70**



**Average Systolic SBP5**

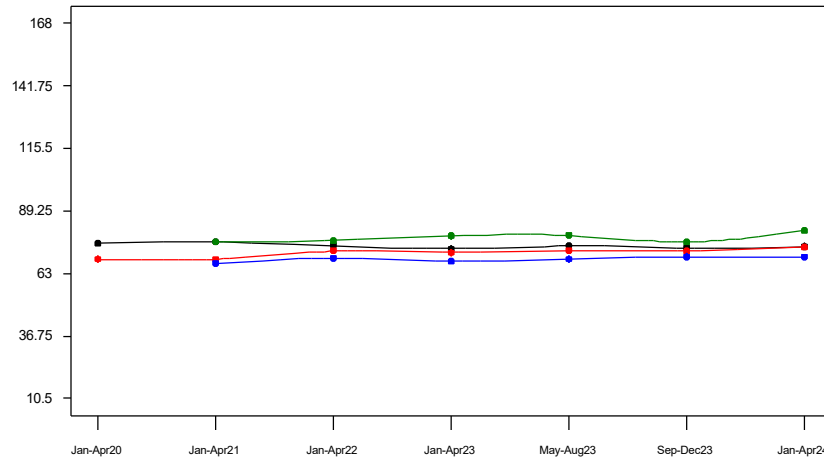


Bronx=BLACK, Chicago=RED, Miami=GREEN, San Diego=BLUE

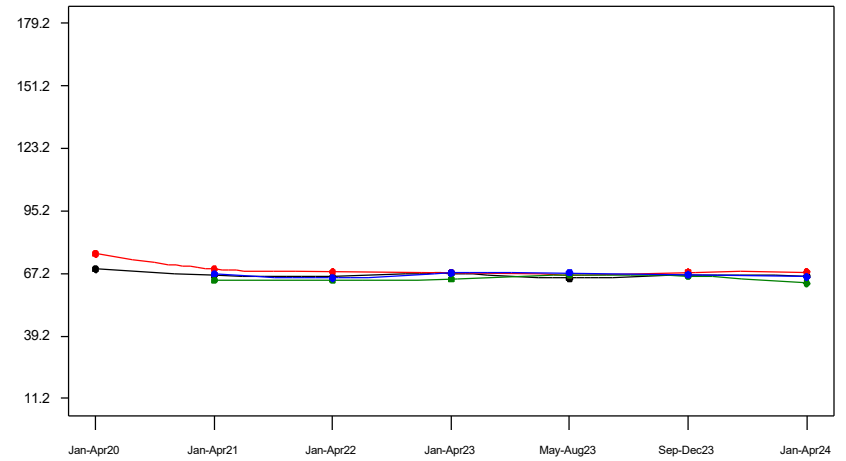
# HCHS/SOL Quality Control Report, May 2024

## Trend Analysis

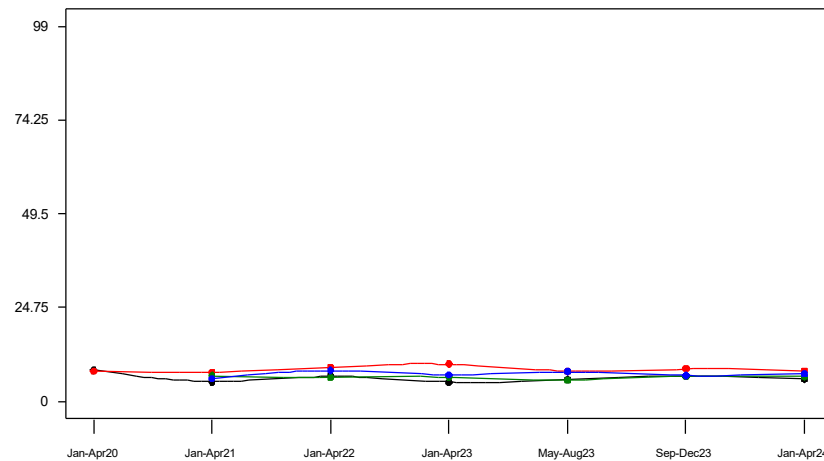
**Average Diastolic SBP6**



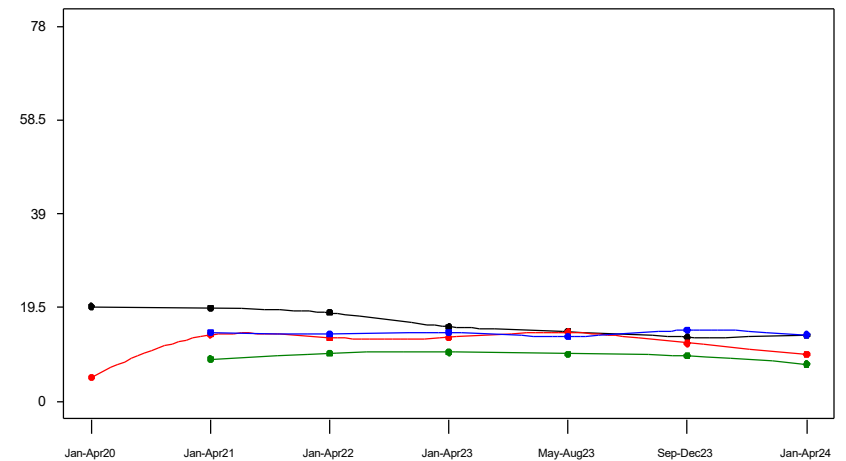
**Average Pulse Rate SBP7**



**Blocks forming neighborhood NDE35**



**Years in neighborhood NDE36**

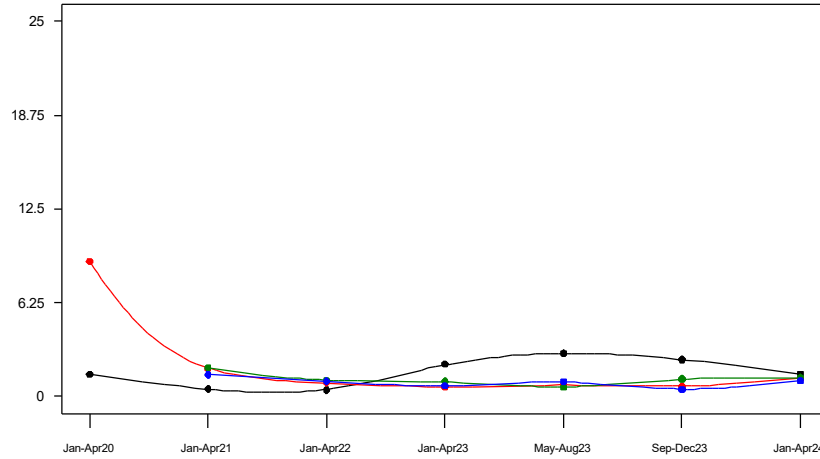


Bronx=BLACK, Chicago=RED, Miami=GREEN, San Diego=BLUE

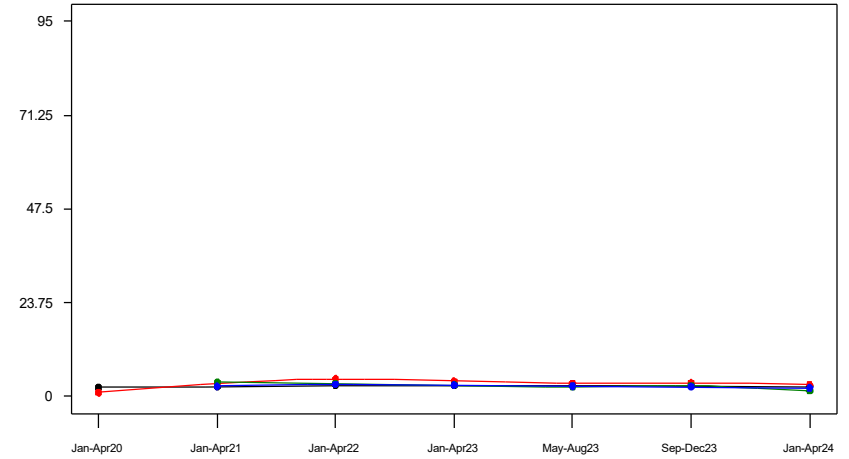
# HCHS/SOL Quality Control Report, May 2024

## Trend Analysis

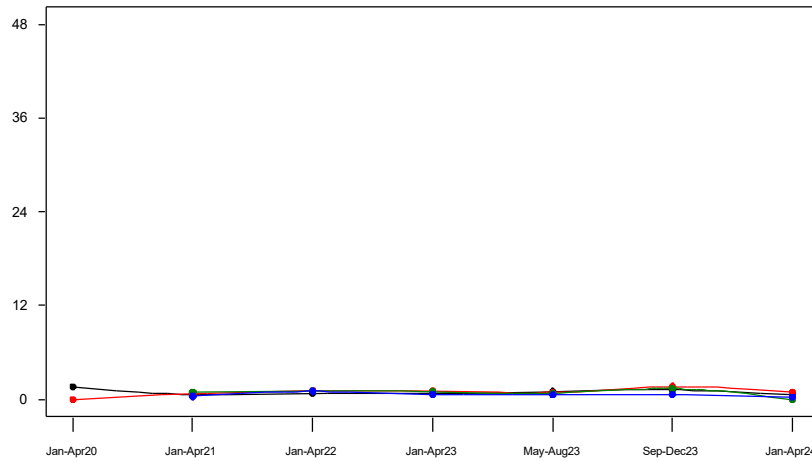
**Months in neighborhood  
NDE36a**



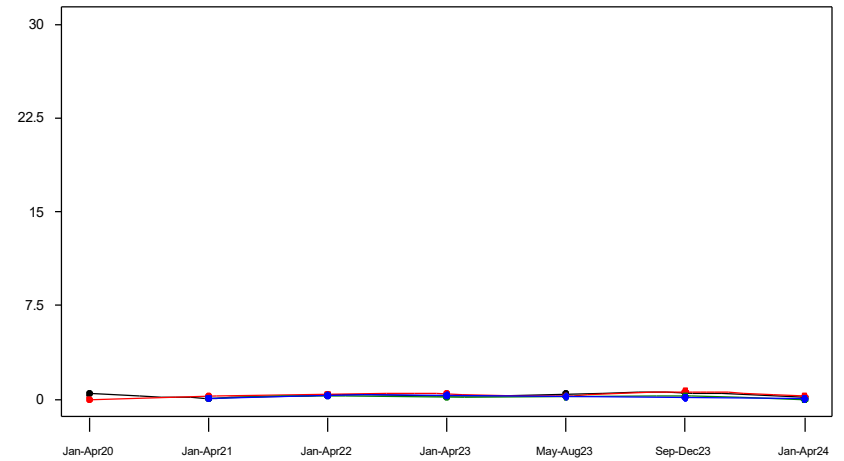
**Number of alcohol drinks per week past 12 months  
BFE56**



**Days drank 4/5 or more drinks per day past 30 days  
BFE57**



**Times drank 4/5 or more drinks in 2 hours past 30 days  
BFE58**

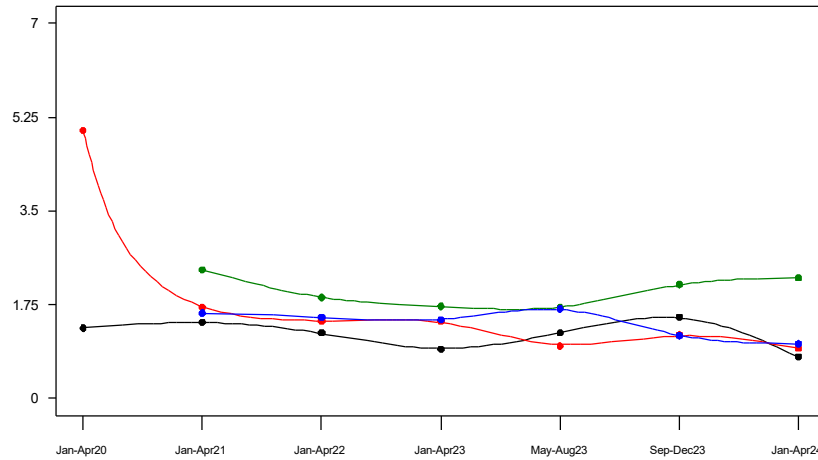


Bronx=BLACK, Chicago=RED, Miami=GREEN, San Diego=BLUE

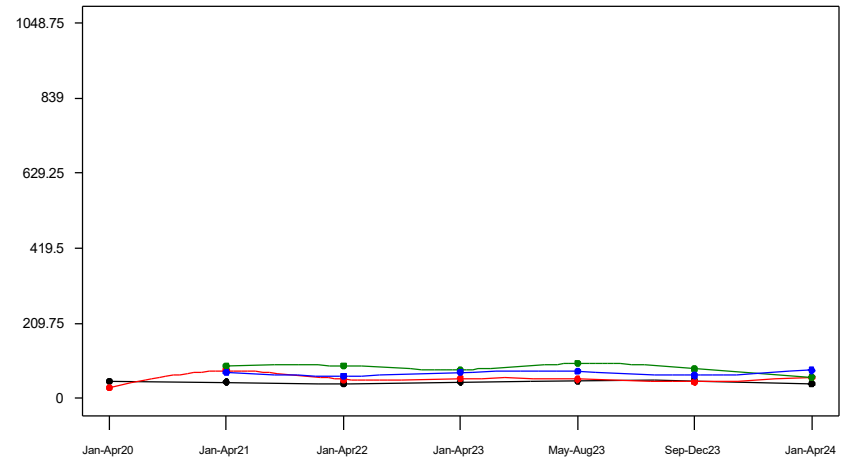
# HCHS/SOL Quality Control Report, May 2024

## Trend Analysis

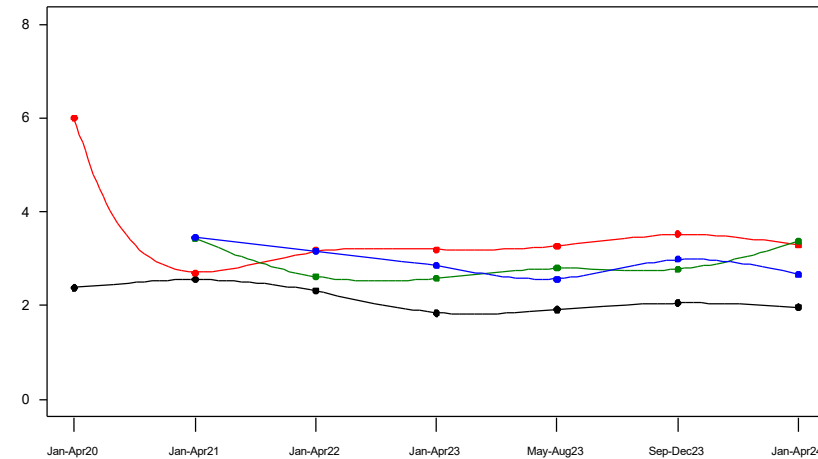
**Vigorous exercise at least 10 minutes how many days per week  
BFE59**



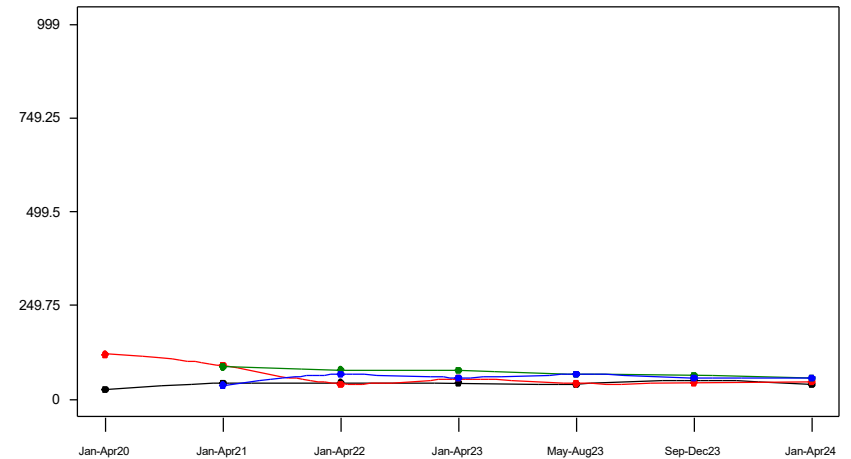
**Minutes of vigorous exercise each time  
BFE60**



**Moderate exercise at least 10 minutes how many days per week  
BFE61**



**Minutes of moderate exercise each time  
BFE62**

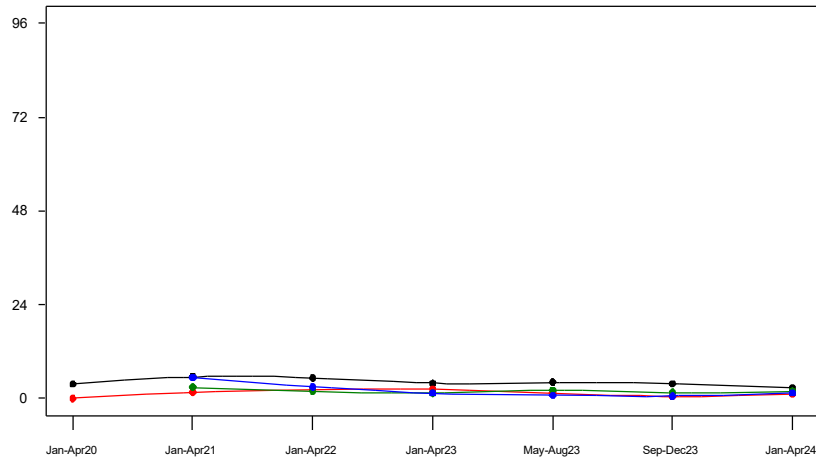


Bronx=BLACK, Chicago=RED, Miami=GREEN, San Diego=BLUE

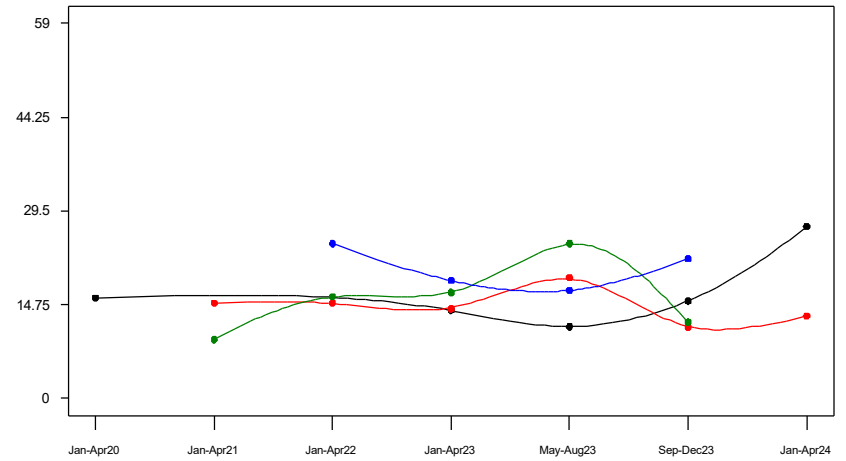
# HCHS/SOL Quality Control Report, May 2024

## Trend Analysis

Age identify current gender  
SME105



Age attracted to same sex  
SME107a



Bronx=BLACK, Chicago=RED, Miami=GREEN, San Diego=BLUE

## HCHS/SOL Quality Control Report, May 2024

**Table 6.2. Number of anthropometries performed by staff id (ANT0B) and month**

		2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2401	Total
<b>Center</b>	<b>Staff ID</b>																								
<b>Bronx</b>	<b>102</b>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	<b>116</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	19	14	21	17	9	11	100
	<b>137</b>	4	60	46	28	29	6	0	0	0	0	0	0	40	21	24	14	9	3	15	18	17	12	6	352
	<b>138</b>	41	6	20	25	15	16	27	30	36	21	26	25	13	12	8	6	8	10	4	11	10	4	0	374
	<b>139</b>	5	1	0	7	0	0	2	4	5	0	12	2	0	0	0	0	0	0	0	0	0	0	0	38
	<b>154</b>	0	0	0	16	35	15	12	19	14	19	5	10	3	0	0	0	0	0	0	0	0	0	0	148
	<b>159</b>	0	0	0	0	0	34	25	49	29	31	24	37	29	18	16	24	18	10	11	23	15	22	16	431
	<b>Total</b>		50	67	66	76	79	71	66	102	85	71	67	74	85	51	48	44	44	42	44	73	59	47	33
<b>Chicago</b>	<b>Staff ID</b>																								
	<b>205</b>	13	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
	<b>215</b>	5	5	5	4	5	2	0	4	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	34
	<b>218</b>	20	15	16	11	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67
	<b>224</b>	0	0	0	12	17	16	16	20	15	15	8	15	16	7	14	3	4	2	3	2	1	4	8	198
	<b>225</b>	12	10	20	14	7	13	7	10	7	13	11	11	8	11	8	5	15	11	10	15	9	7	8	242
	<b>233</b>	0	0	0	10	11	8	8	9	8	7	12	5	11	12	5	8	0	0	0	0	0	0	0	114
	<b>234</b>	0	0	0	0	3	2	9	5	6	4	3	5	5	8	9	5	0	4	4	5	4	5	7	93
	<b>236</b>	7	10	7	9	8	6	10	13	12	9	9	9	8	10	5	8	2	3	6	8	5	3	6	173
	<b>241</b>	14	16	14	14	14	9	11	15	12	8	14	16	10	13	5	7	5	8	0	0	0	0	0	205
	<b>245</b>	13	15	14	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
	<b>246</b>	16	10	15	8	16	17	9	19	15	4	0	0	0	0	0	0	0	0	0	0	0	0	0	129
	<b>250</b>	0	0	0	0	11	14	11	22	15	12	12	12	8	12	10	6	5	2	3	3	3	4	5	170
	<b>261</b>	0	0	0	0	0	0	0	0	0	0	0	0	4	11	9	8	10	11	7	10	7	6	4	87
	<b>266</b>	0	0	0	0	0	0	0	0	0	0	0	10	10	17	9	11	10	5	8	3	1	3	12	99
	<b>274</b>	0	0	0	0	0	0	0	0	0	0	0	0	2	7	3	7	8	6	5	4	4	5	0	51
	<b>Total</b>		100	87	93	91	106	87	81	117	90	75	69	83	83	108	77	68	59	52	46	50	34	37	50

## HCHS/SOL Quality Control Report, May 2024

**Table 6.2. Number of anthropometries performed by staff id (ANT0B) and month**

	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2401	Total	
<b>Miami</b>																									
<b>Staff ID</b>																									
<b>302</b>	5	4	3	1	5	5	4	7	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
<b>309</b>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>311</b>	2	14	5	13	16	6	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
<b>316</b>	17	16	14	16	13	15	8	8	6	7	3	2	3	2	6	2	2	2	1	0	2	1	0	0	146
<b>317</b>	11	8	2	0	3	4	5	5	4	0	1	0	0	0	1	0	0	5	0	0	1	0	0	0	50
<b>318</b>	11	14	13	11	16	12	12	8	2	5	4	5	6	7	2	2	4	4	3	2	2	1	1	1	147
<b>320</b>	21	21	17	17	6	14	13	7	8	4	2	2	1	2	2	1	10	5	4	2	1	0	0	0	160
<b>325</b>	8	4	2	5	6	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
<b>333</b>	0	0	0	0	0	0	0	0	0	5	11	10	14	14	13	7	5	4	9	5	5	3	1	1	106
<b>336</b>	18	15	13	18	17	13	11	8	5	3	2	2	0	2	2	2	0	0	0	0	1	0	0	0	132
<b>338</b>	10	7	8	8	13	5	7	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
<b>348</b>	0	0	0	0	0	0	0	0	8	6	8	11	6	11	8	12	0	0	5	2	1	0	1	1	79
<b>350</b>	0	0	0	0	0	0	0	0	0	12	8	13	12	14	12	10	10	6	5	5	4	4	0	0	115
<b>352</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3	6	3	3	1	1	20
<b>354</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	8	6	5	11	0	4	4	39
<b>356</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<b>374</b>	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4
<b>377</b>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>398</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2
<b>Total</b>	103	103	77	89	95	77	67	49	37	42	40	45	42	52	46	36	36	38	36	29	32	12	8	1191	

## HCHS/SOL Quality Control Report, May 2024

**Table 6.2. Number of anthropometries performed by staff id (ANT0B) and month**

San Diego Staff ID	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2401	Total
137	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
402	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
405	0	0	0	0	0	0	0	0	1	3	2	4	10	5	3	2	1	2	3	0	1	0	2	39
406	0	0	2	5	7	7	4	7	4	3	6	3	6	1	1	2	0	0	0	0	0	0	0	58
409	0	0	0	0	1	8	11	10	11	6	6	8	9	4	4	6	4	5	4	7	14	8	4	130
411	0	2	3	1	2	1	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	12
412	1	4	4	10	15	6	7	9	8	6	6	4	7	3	5	4	4	0	0	0	0	0	0	103
413	0	0	0	0	0	0	7	7	7	6	5	6	7	1	3	4	8	1	3	2	2	0	0	69
414	13	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
416	0	0	1	3	4	6	7	7	6	5	3	8	6	6	3	6	5	5	3	4	6	3	3	100
420	8	16	12	14	6	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
422	13	12	8	10	8	8	4	5	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	75
424	0	0	3	1	9	8	5	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
425	0	0	0	0	4	19	13	12	5	9	9	5	7	10	6	5	6	4	4	2	5	2	6	133
435	11	20	15	7	14	5	5	6	1	2	0	4	2	3	0	2	0	1	0	0	0	1	5	104
438	7	10	6	9	3	9	12	7	8	6	8	7	0	0	0	0	0	0	0	0	0	0	0	92
458	0	0	0	0	0	0	0	15	13	8	6	9	18	13	4	10	9	7	5	4	6	8	7	142
462	16	19	17	20	10	8	9	5	2	0	3	3	7	4	4	2	2	2	1	0	0	1	6	141
463	10	10	7	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
465	0	0	0	0	0	0	0	0	3	2	1	2	1	0	0	0	1	0	0	0	0	0	0	10
474	0	0	0	0	0	0	0	0	1	4	6	2	0	0	0	0	0	0	0	0	0	0	0	13
476	0	0	0	0	0	0	0	11	7	2	5	6	6	9	5	4	3	3	4	5	4	4	4	82
487	0	0	0	0	0	0	0	0	0	0	1	8	19	12	5	6	3	0	2	2	1	2	2	63
488	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	1	4	3	0	2	1	0	22
490	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	2	6	6	4	6	31
<b>Total</b>	80	106	79	89	84	89	85	103	85	64	67	79	105	71	46	61	50	39	34	32	47	34	46	1575



## HCHS/SOL Quality Control Report, May 2024

**Table 6.2. Number of anthropometries performed by staff id (ANT0B) and month**

	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2401	Total
<b>Grand Total</b>	333	363	315	345	364	324	299	371	297	252	243	281	315	282	217	209	189	171	160	184	172	130	137	5953

## HCHS/SOL Quality Control Report, May 2024

**Table 6.3. Number of SBP performed by staff id (SBP0B) and month**

		2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2401	Total
<b>Center</b>	<b>Staff ID</b>																								
<b>Bronx</b>	<b>116</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	21	15	26	17	9	9	105
	<b>137</b>	3	50	41	29	28	3	0	0	0	0	0	0	35	19	20	15	10	3	13	19	14	15	5	322
	<b>138</b>	43	15	25	31	13	20	24	30	28	20	21	23	15	10	9	5	6	6	7	11	9	4	0	375
	<b>139</b>	4	3	1	7	5	0	1	7	3	2	8	3	1	2	0	0	0	0	0	0	0	0	0	47
	<b>154</b>	0	0	0	11	30	9	14	16	10	18	7	10	3	0	0	0	0	0	0	0	0	0	0	128
	<b>156</b>	0	0	0	0	0	6	3	13	17	2	11	7	1	1	1	1	5	3	0	3	4	3	7	88
	<b>159</b>	0	0	0	0	2	33	24	36	27	30	19	31	30	19	18	23	15	10	11	14	15	17	14	388
	<b>Total</b>		50	68	67	78	78	71	66	102	85	72	66	74	85	51	48	44	44	43	46	73	59	48	35
<b>Chicago</b>	<b>Staff ID</b>																								
	<b>205</b>	11	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
	<b>215</b>	6	5	5	4	5	2	0	4	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	35
	<b>218</b>	20	15	16	11	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67
	<b>223</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
	<b>224</b>	0	0	0	12	17	16	16	19	15	15	8	17	16	7	14	3	4	2	3	2	1	4	8	199
	<b>225</b>	12	10	20	14	7	13	7	10	7	13	11	11	8	11	8	4	15	11	10	15	9	7	8	241
	<b>233</b>	0	0	0	10	11	8	8	9	8	7	12	5	10	11	5	8	0	0	0	0	0	0	0	112
	<b>234</b>	0	0	0	0	3	2	9	5	6	4	3	5	5	8	9	5	0	4	4	5	4	5	7	93
	<b>236</b>	7	10	7	9	8	6	10	13	12	9	9	9	8	10	5	8	2	3	6	8	5	3	6	173
	<b>241</b>	14	17	14	14	14	9	11	15	12	8	14	16	11	13	5	7	5	9	0	0	0	0	0	208
	<b>245</b>	13	14	14	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
	<b>246</b>	16	10	15	7	17	17	9	19	15	4	0	0	0	0	0	0	0	0	0	0	0	0	0	129
	<b>250</b>	0	0	0	0	11	14	11	22	15	12	12	12	8	12	10	6	5	2	3	3	3	4	5	170
	<b>261</b>	0	0	0	0	0	0	0	0	0	0	0	0	4	11	9	9	10	11	7	10	7	6	4	88
	<b>266</b>	0	0	0	0	0	0	0	0	0	0	1	10	10	16	9	11	10	5	8	3	1	3	12	99
	<b>274</b>	0	0	0	0	0	0	0	0	0	0	0	0	2	7	3	7	8	6	5	4	4	5	0	51
	<b>Total</b>		99	87	93	90	107	87	81	116	90	75	70	85	83	107	77	68	59	53	46	50	34	37	50

## HCHS/SOL Quality Control Report, May 2024

**Table 6.3. Number of SBP performed by staff id (SBP0B) and month**

	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2401	Total	
<b>Miami</b>																									
<b>Staff ID</b>																									
<b>302</b>	6	5	3	1	4	5	4	7	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
<b>309</b>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>311</b>	2	14	5	13	16	6	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
<b>316</b>	17	16	14	16	15	15	8	7	6	7	3	2	3	2	6	2	2	2	2	0	2	1	0	0	148
<b>317</b>	11	8	2	0	2	3	4	5	4	0	1	0	0	0	1	0	0	5	0	1	2	0	0	0	49
<b>318</b>	11	15	13	11	17	12	12	8	2	5	4	4	6	7	2	2	4	5	3	2	3	1	1	0	150
<b>320</b>	21	21	17	17	6	14	13	7	8	4	2	2	1	2	2	1	9	5	2	2	1	0	0	0	157
<b>325</b>	8	4	2	5	6	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
<b>333</b>	0	0	0	0	0	0	0	0	0	5	11	11	14	14	13	7	6	4	7	4	4	3	1	0	104
<b>336</b>	18	14	13	18	17	13	11	8	5	3	2	2	0	2	2	2	0	0	0	0	1	0	0	0	131
<b>338</b>	10	6	8	7	14	5	8	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
<b>348</b>	0	0	0	0	0	0	0	0	8	6	8	11	5	11	8	12	0	0	7	2	1	0	1	0	80
<b>350</b>	0	0	0	0	0	0	0	0	0	12	8	13	13	14	12	10	9	6	5	5	2	4	0	0	113
<b>352</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3	6	3	3	1	0	20
<b>354</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	7	6	5	12	0	4	0	40
<b>356</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<b>374</b>	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4
<b>377</b>	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<b>398</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	3
<b>Total</b>	104	103	77	88	97	76	67	49	37	42	40	45	42	52	46	36	36	38	36	29	32	12	8	1192	

## HCHS/SOL Quality Control Report, May 2024

**Table 6.3. Number of SBP performed by staff id (SBP0B) and month**

San Diego Staff ID	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2401	Total
402	0	0	3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
405	0	0	0	0	0	0	0	11	1	4	2	5	9	2	3	2	2	3	2	0	1	0	3	50
406	0	6	7	8	9	8	4	6	4	3	6	3	6	0	1	2	0	0	0	0	0	0	0	73
409	0	0	0	0	1	4	10	11	11	7	8	7	10	3	4	5	4	5	4	7	13	8	4	126
411	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
412	0	10	8	11	12	5	4	5	8	5	6	5	7	3	3	4	5	0	0	0	0	0	0	101
413	0	0	0	0	0	5	8	6	6	6	5	6	7	1	3	5	8	1	3	3	2	0	0	75
414	13	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
416	1	4	3	4	4	5	8	5	4	5	3	6	6	7	3	7	5	4	3	4	5	3	3	102
417	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
420	8	16	13	14	8	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64
422	11	11	8	8	8	8	4	3	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	68
424	0	3	6	2	10	7	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
425	0	0	0	0	0	13	16	8	5	6	7	5	7	8	6	4	4	3	4	2	4	3	6	111
435	11	11	11	4	8	4	7	0	0	0	0	1	2	1	0	1	0	1	0	0	0	1	1	64
438	7	9	4	9	2	9	10	6	8	5	8	7	0	0	0	0	0	0	0	0	0	0	0	84
458	0	0	0	0	0	0	0	17	15	9	6	10	16	12	3	10	8	8	6	6	7	8	10	151
460	0	0	2	6	12	5	1	3	0	3	2	2	0	2	0	0	0	0	0	0	0	0	0	38
462	18	13	8	13	8	7	4	1	1	0	3	2	6	1	2	2	2	0	2	0	0	1	4	98
463	11	9	5	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
465	0	0	0	0	0	0	0	6	4	1	1	2	1	0	0	0	0	0	0	0	1	0	0	16
474	0	0	0	0	0	0	0	0	3	5	4	3	0	0	0	0	0	0	0	0	0	0	0	15
476	0	0	0	0	0	0	5	15	9	2	6	4	8	8	3	4	3	4	3	2	4	3	5	88
487	0	0	0	0	0	0	0	0	0	0	0	10	20	15	5	6	3	0	1	2	1	2	5	70
488	0	0	0	0	0	0	0	0	0	0	0	0	0	6	4	7	1	3	4	0	1	1	0	27
490	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	2	6	6	2	6	7	4	6	44

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**Table 6.3. Number of SBP performed by staff id (SBP0B) and month**

	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2401	Total
<b>Total</b>	80	106	79	88	83	87	85	104	84	63	67	78	105	70	44	61	51	38	34	32	46	34	47	1566
<b>Grand Total</b>	333	364	316	344	365	321	299	371	296	252	243	282	315	280	215	209	190	172	162	184	171	131	140	5955

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**Table 6.4. Number of blood draws performed by staff id (BIO13) and month**

Center	Staff ID	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2401	Date Missing	Total
		<b>Bronx</b>	<b>116</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	14	22	22	26	20	13	23	0
	<b>137</b>	0	19	45	47	47	11	1	0	0	0	0	0	22	21	21	17	10	8	11	23	18	16	9	8	354
	<b>138</b>	54	43	31	41	38	28	48	68	52	35	48	50	32	16	19	8	13	12	9	20	14	11	0	8	698
	<b>152</b>	5	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
	<b>154</b>	0	0	0	0	4	18	10	16	12	16	4	6	2	0	0	0	0	0	0	0	0	0	0	1	89
	<b>159</b>	0	0	0	0	0	24	16	32	27	23	19	25	28	16	9	16	9	4	4	6	7	9	4	0	278
	<b>Total</b>	59	76	76	88	89	81	75	116	91	74	71	81	84	53	49	43	46	46	46	75	59	49	36	17	1580
<b>Chicago</b>	<b>Staff ID</b>																									
	<b>205</b>	17	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
	<b>208</b>	86	42	82	79	56	32	40	53	46	33	14	29	30	39	17	22	17	8	14	8	9	10	18	0	784
	<b>210</b>	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	<b>228</b>	0	0	4	1	20	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	27
	<b>230</b>	0	0	0	8	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
	<b>234</b>	11	21	20	16	36	36	30	29	23	20	24	18	19	32	15	22	13	13	12	8	2	4	12	0	436
	<b>236</b>	0	0	0	0	0	0	0	0	0	0	5	3	3	4	5	0	19	5	7	9	4	1	3	0	68
	<b>265</b>	0	0	0	0	0	33	22	48	35	36	36	49	33	34	39	26	12	25	14	22	20	23	17	0	524
	<b>Total</b>	114	97	106	104	125	102	94	130	104	89	79	99	85	109	76	70	61	51	47	48	35	38	50	0	1913

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**Table 6.4. Number of blood draws performed by staff id (BIO13) and month**

		2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2401	Date Missing	Total	
<b>Miami</b>	<b>Staff ID</b>																										
	<b>311</b>	50	32	15	22	35	13	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	176
	<b>317</b>	0	0	0	0	0	0	0	0	0	0	4	6	4	1	6	7	5	10	7	3	4	0	3	0	0	60
	<b>318</b>	0	0	0	0	0	0	0	0	0	0	1	5	6	4	3	3	4	4	3	2	2	2	1	0	0	40
	<b>320</b>	9	16	20	28	20	18	17	17	11	19	7	7	8	14	14	5	17	9	8	9	9	0	1	0	283	
	<b>333</b>	0	0	0	0	0	0	0	0	0	0	8	6	9	8	10	5	4	4	6	7	8	5	0	0	0	80
	<b>338</b>	34	30	36	24	19	31	17	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	194
	<b>340</b>	0	0	0	0	0	0	0	0	0	0	5	5	3	1	0	0	0	0	0	0	0	0	0	0	0	14
	<b>348</b>	0	0	0	0	0	0	0	0	0	0	9	8	4	7	6	8	0	3	3	6	4	1	3	0	0	62
	<b>350</b>	0	0	0	0	0	0	0	0	0	0	7	11	10	11	13	10	7	9	9	2	7	4	0	0	0	100
	<b>377</b>	23	38	17	27	34	25	33	37	30	27	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	296
	<b>Total</b>	116	116	88	101	108	87	76	57	41	46	46	48	44	46	52	38	37	39	36	29	34	12	8	0	1305	
<b>San Diego</b>	<b>Staff ID</b>																										
	<b>431</b>	56	58	38	45	43	6	0	0	39	32	26	52	53	29	22	28	25	16	14	18	16	0	0	1	617	
	<b>447</b>	28	49	20	19	11	46	47	60	27	14	5	0	17	21	12	12	5	10	10	6	12	15	30	1	477	
	<b>473</b>	0	8	30	33	38	34	41	51	27	27	35	38	39	23	15	21	21	13	11	9	19	21	18	1	573	
	<b>Missing</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
	<b>Total</b>	84	115	88	97	92	86	88	111	93	73	66	90	109	73	49	61	51	39	35	33	47	36	49	3	1668	
<b>Grand Total</b>		373	404	358	390	414	356	333	414	329	282	262	318	322	281	226	212	195	175	164	185	175	135	143	20	6466	