

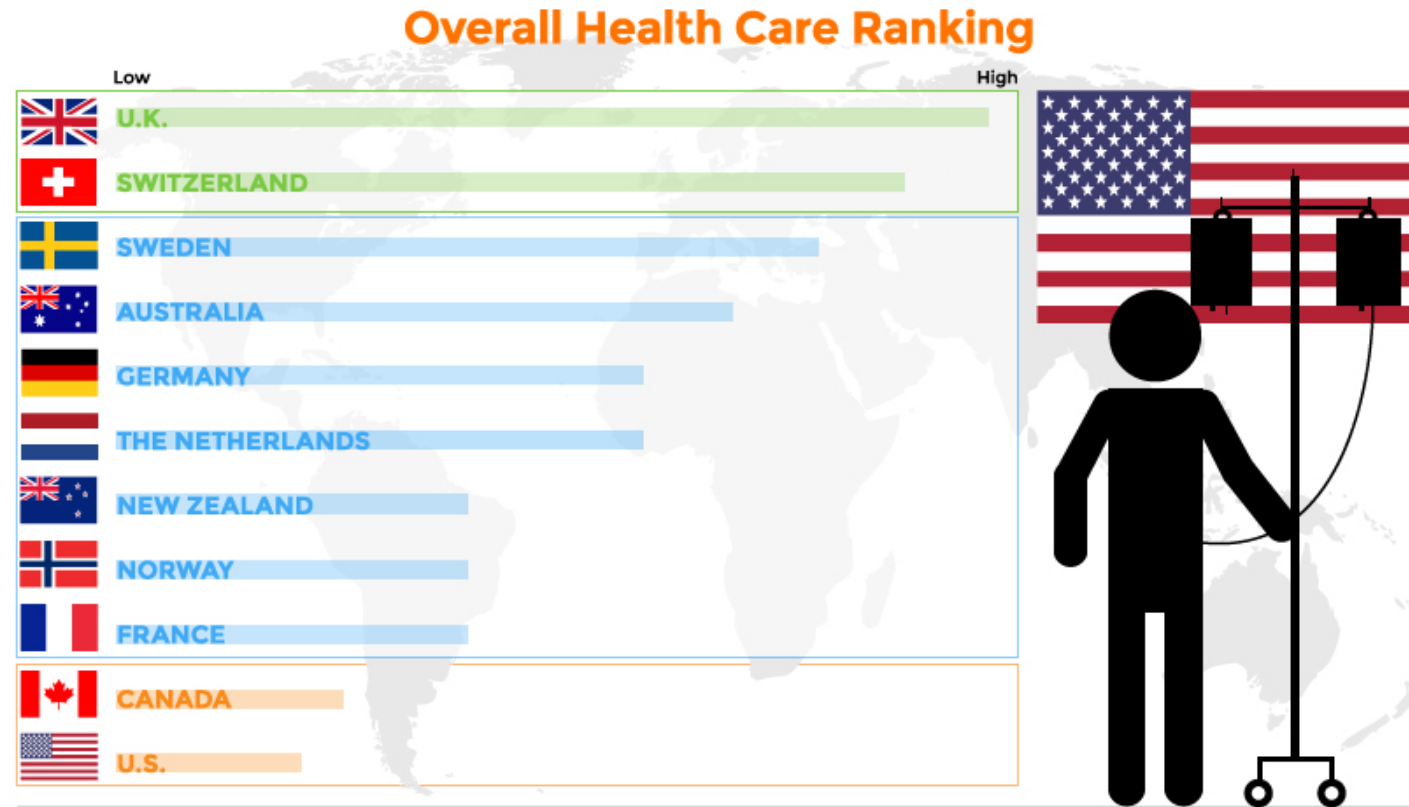
Our Not-for-Profit Mission: The Key to Creating Positive Change in Healthcare in America



Stephen H. Lockhart, M.D. Ph.D.
Chief Medical Officer, Sutter Health

U.S. HEALTH CARE RANKS LAST AMONG WEALTHY COUNTRIES

A recent international study compared 11 nations on health care quality, access, efficiency, and equity, as well as indicators of healthy lives such as infant mortality.



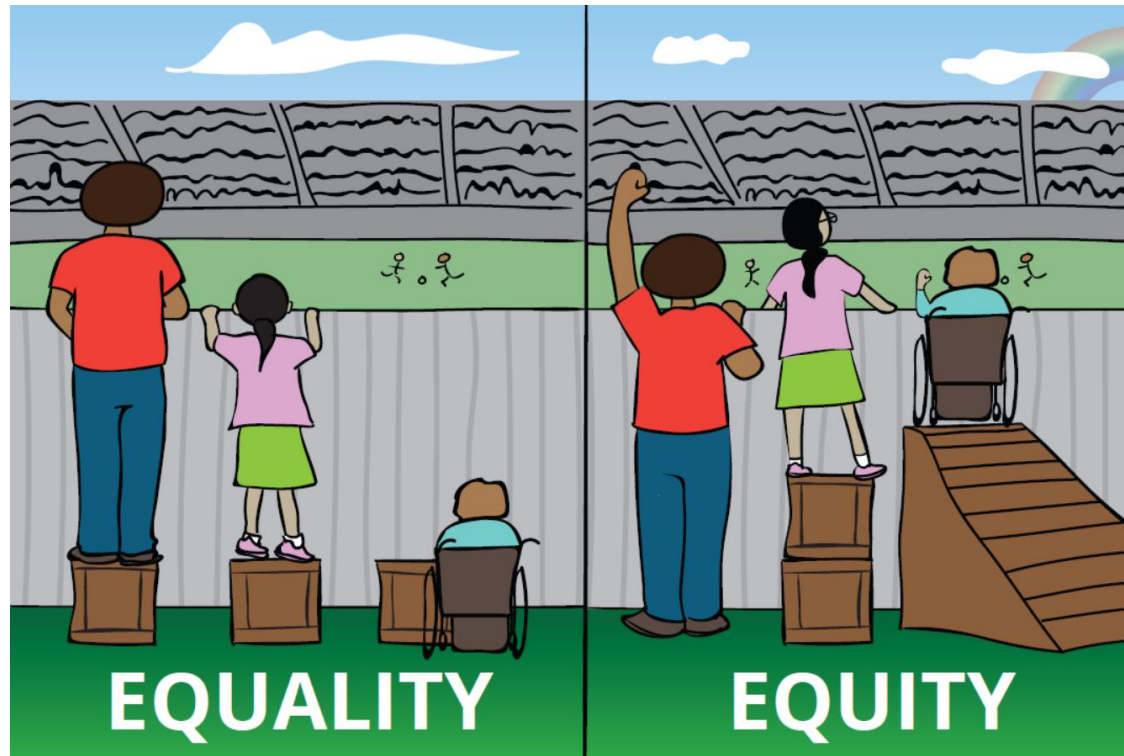
Source: K. Davis, K. Stremikis, D. Squires, and C. Schoen, *Mirror, Mirror on the Wall: How the Performance of the U.S. Health Care System Compares Internationally*, 2014 Update, The Commonwealth Fund, June 2014.







Defining Health Equity



DEFINITION: *“At Sutter Health, all patients receive high- quality care regardless of their circumstances. We deliver care that meets the unique needs of our communities with a commitment to ensuring access to care and optimal health outcomes for all.”*

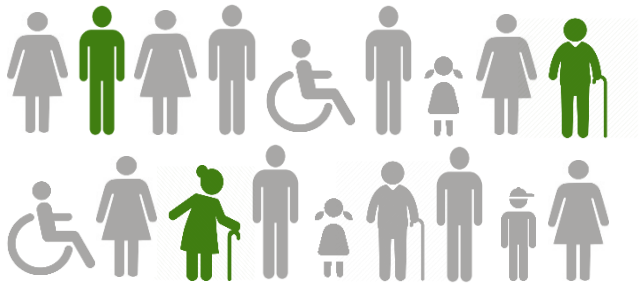
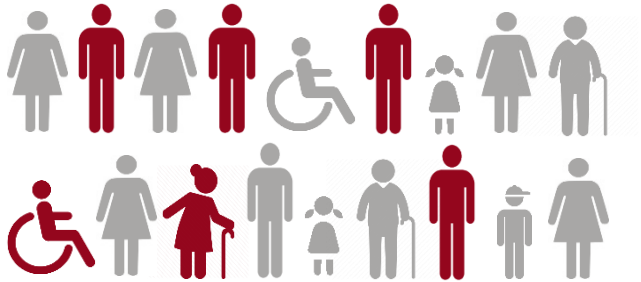
Building the team



Building the health equity index

Observed

Electronic Health Record Data

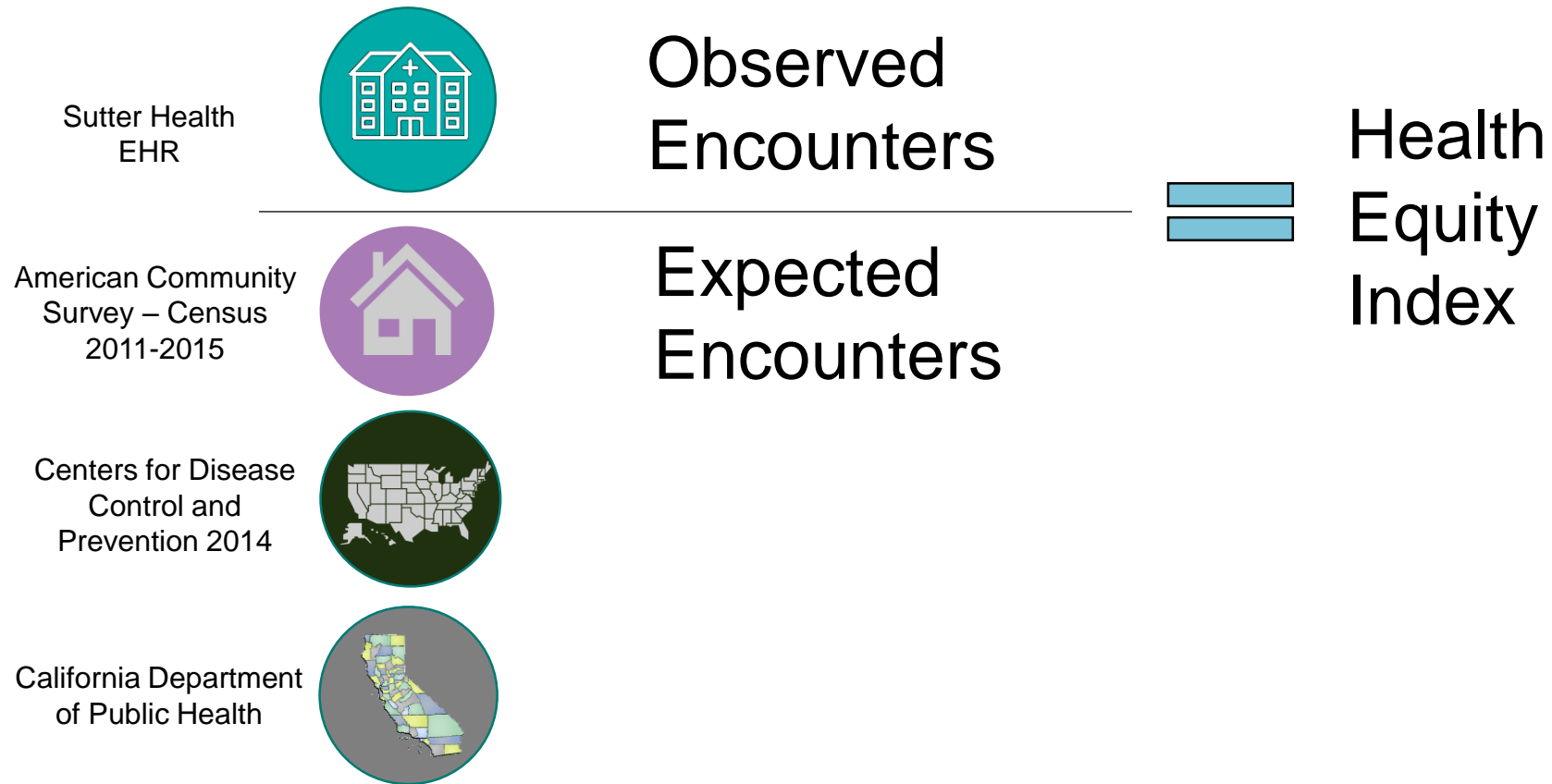


Expected

Calculated Data

$$= \frac{6}{3} \text{ OR } 2$$

Health equity index inputs



Sutter Health Equity Index Summary



Health Equity Index
1.1



Health Equity Index
1.2



Health Equity Index
1.0



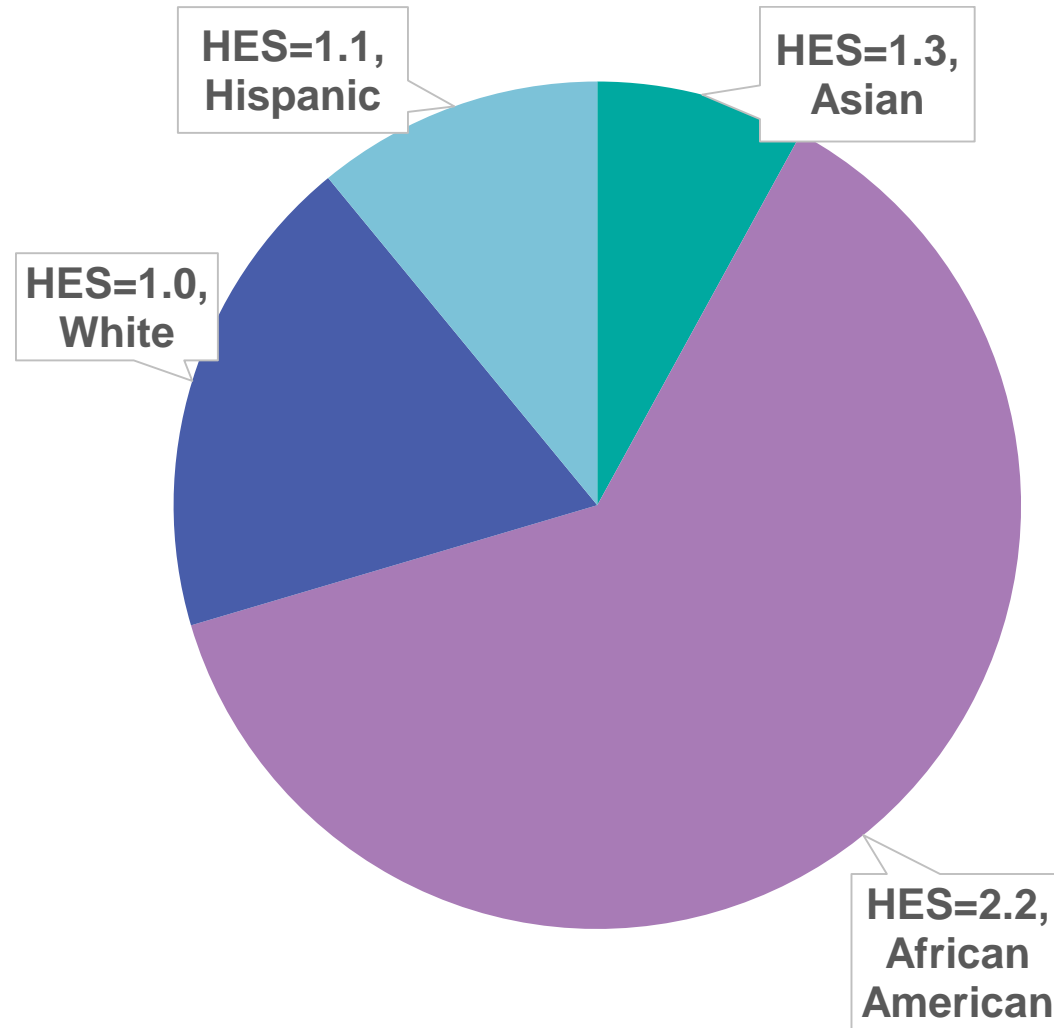
Health Equity Index
2.2

Monthly dashboard - example

Sutter Health Equity Index Summary Rolling 12 Months September 2017 - August 2018

Sutter Health - HEI for Asthma						
Asthma		Asian	Black	Hisp	White	
Male	20-44	0.5	2.4	1.1	0.6	
	45-64	0.8	2.0	0.8	0.4	
	65+	1.8	1.8	0.7	0.3	
Female	20-44	0.5	2.2	1.1	0.6	
	45-64	0.9	1.9	1.1	0.5	
	65+	2.1	3.3	1.1	0.4	
Health Equity Score		1.3	2.2	1.1	1.0	
Overall Weighted HEI						1.4

Monthly dashboard - example



Monthly dashboard - example

Sutter Health Equity Index Summary

Rolling 12 Months

December 2016 - November 2017

Sutter Health System HEI Overview		
	Asthma	Diabetes
Target	1.0	1.0
System HEI	1.4	2.2
Lakeside	1.3	1.8
Eden	1.2	2.6
Novato	1.5	2.0
Mills Peninsula	1.2	1.5
Santa Rosa	1.3	2.4
Delta	1.2	2.2
ABSMC	1.5	2.2
CPMC	2.0	2.4
Bay Operating Unit	1.6	2.6
Auburn Faith	1.2	1.4
Los Banos	1.1	1.4
Davis	1.1	3.0
Modesto	1.2	1.7
Roseville	1.2	1.5
Tracy	1.2	1.5
Sacramento	1.4	2.1
Amador	1.3	1.7
Solano	1.2	2.6
Valley Operating Unit	1.2	1.8
SUTTER COAST HOSPITAL	1.1	1.4
Note: Sutter Santa Cruz Maternity and Surgery Center, and Menlo Park Surgical Center are excluded from the HEI.		

Sutter Health - HEI for Asthma					
Asthma	Asian	Black	Hisp	White	
Male	20-44	0.6	2.6	1.0	0.6
	45-64	0.5	1.9	0.8	0.4
	65+	1.6	1.6	0.8	0.3
Female	20-44	0.7	2.1	1.1	0.6
	45-64	1.0	1.7	1.1	0.5
	65+	2.1	3.0	1.0	0.4
Health Equity Index (=weighted avg. of HES)					1.4

Sutter Health - Observed Asthma Encounters					
Asthma	Asian	Black	Hisp	White	
Male	20-44	81	642	472	553
	45-64	37	254	121	353
	65+	39	41	37	107
Female	20-44	101	625	631	777
	45-64	81	425	325	617
	65+	83	106	120	272
Total Observed		422	2093	1706	2679
					6900

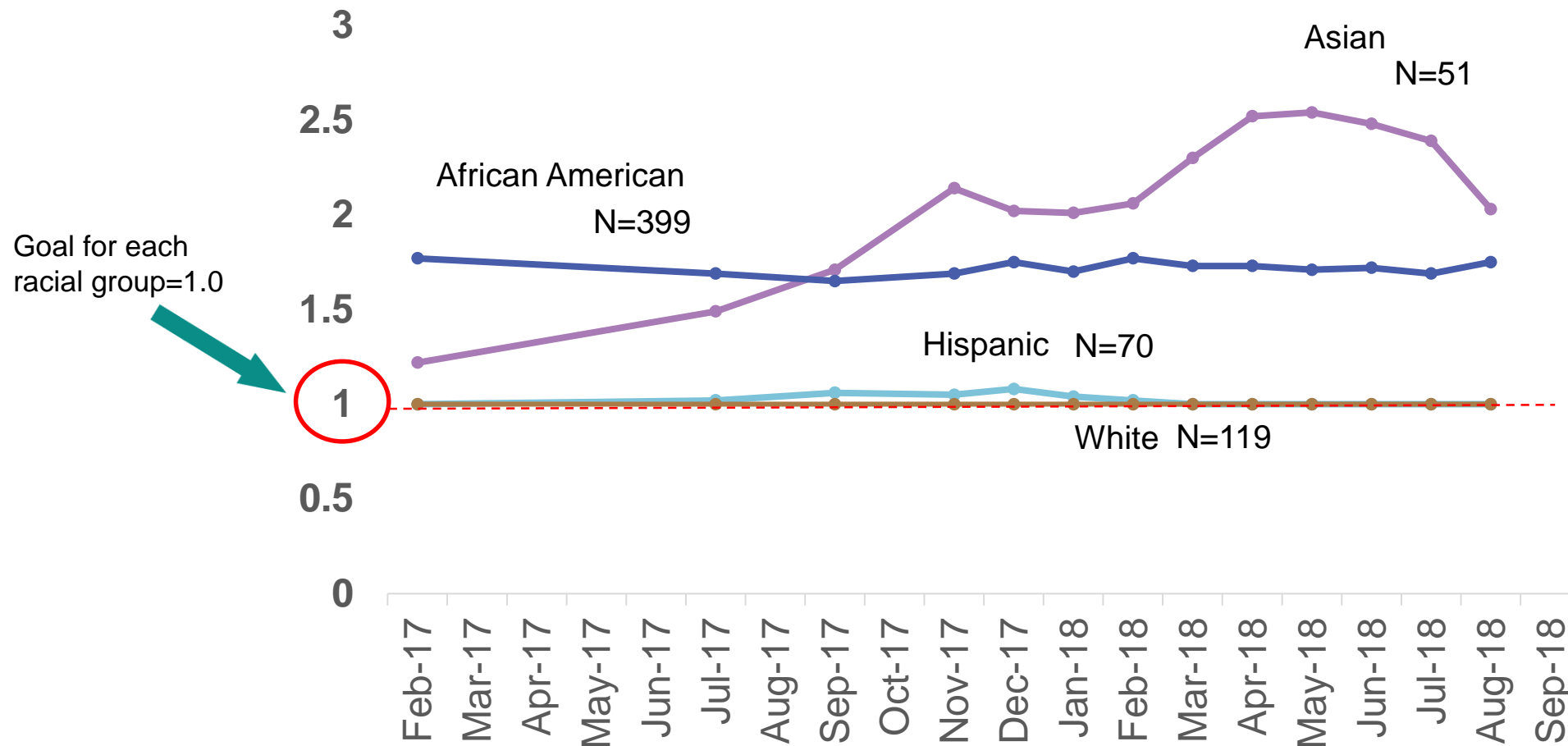
Sutter Health - Observed Asthma Patients					
Asthma	Asian	Black	Hisp	White	
Male	20-44	62	372	360	420
	45-64	33	166	100	254
	65+	33	33	26	99
Female	20-44	82	489	509	605
	45-64	63	322	258	477
	65+	76	85	108	244
Total Observed		349	1467	1361	2099
					5276

Sutter Health - HEI for Diabetes					
Diabetes	Asian	Black	Hisp	White	
Male	20-44	0.8	14.7	2.8	3.0
	45-64	0.4	1.5	0.8	0.7
	65+	0.4	0.9	0.6	0.5
Female	20-44	0.4	6.2	2.4	2.6
	45-64	0.2	1.3	0.6	0.5
	65+	0.4	0.7	0.6	0.4
Health Equity Index (=weighted avg. of HES)					2.2

Sutter Health - Observed Diabetes Encounters					
Diabetes	Asian	Black	Hisp	White	
Male	20-44	35	319	344	432
	45-64	88	472	492	831
	65+	110	152	207	660
Female	20-44	22	299	308	362
	45-64	54	416	363	596
	65+	129	181	231	519
Total Observed		438	1839	1945	3400
					7622

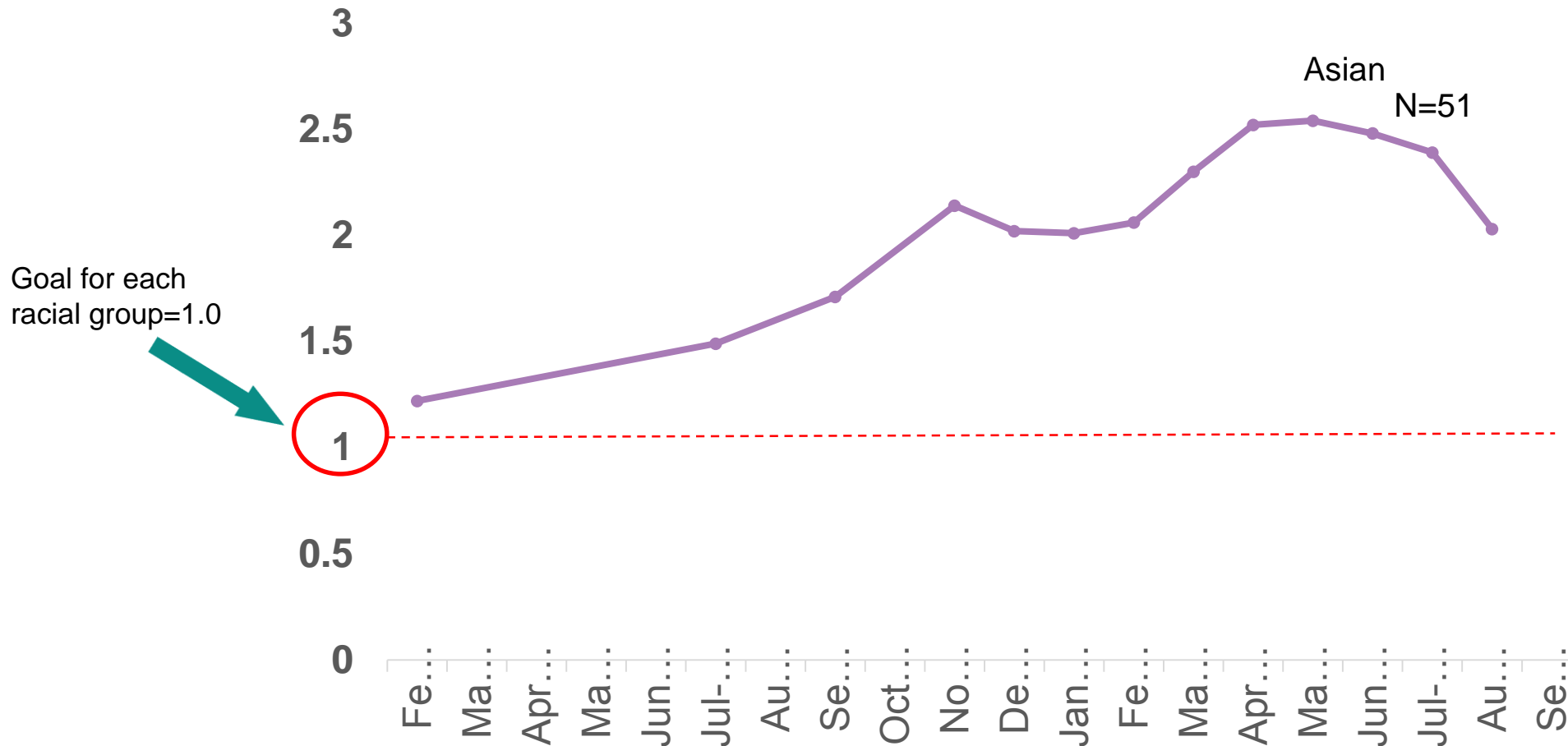
Sutter Health - Observed Diabetes Patients					
Diabetes	Asian	Black	Hisp	White	
Male	20-44	30	197	253	307
	45-64	75	364	407	637
	65+	104	123	183	560
Female	20-44	20	162	219	236
	45-64	47	280	297	438
	65+	116	156	197	427
Total Observed		392	1282	1556	2605
					5835

Health Equity Index - asthma over time at ABSMC



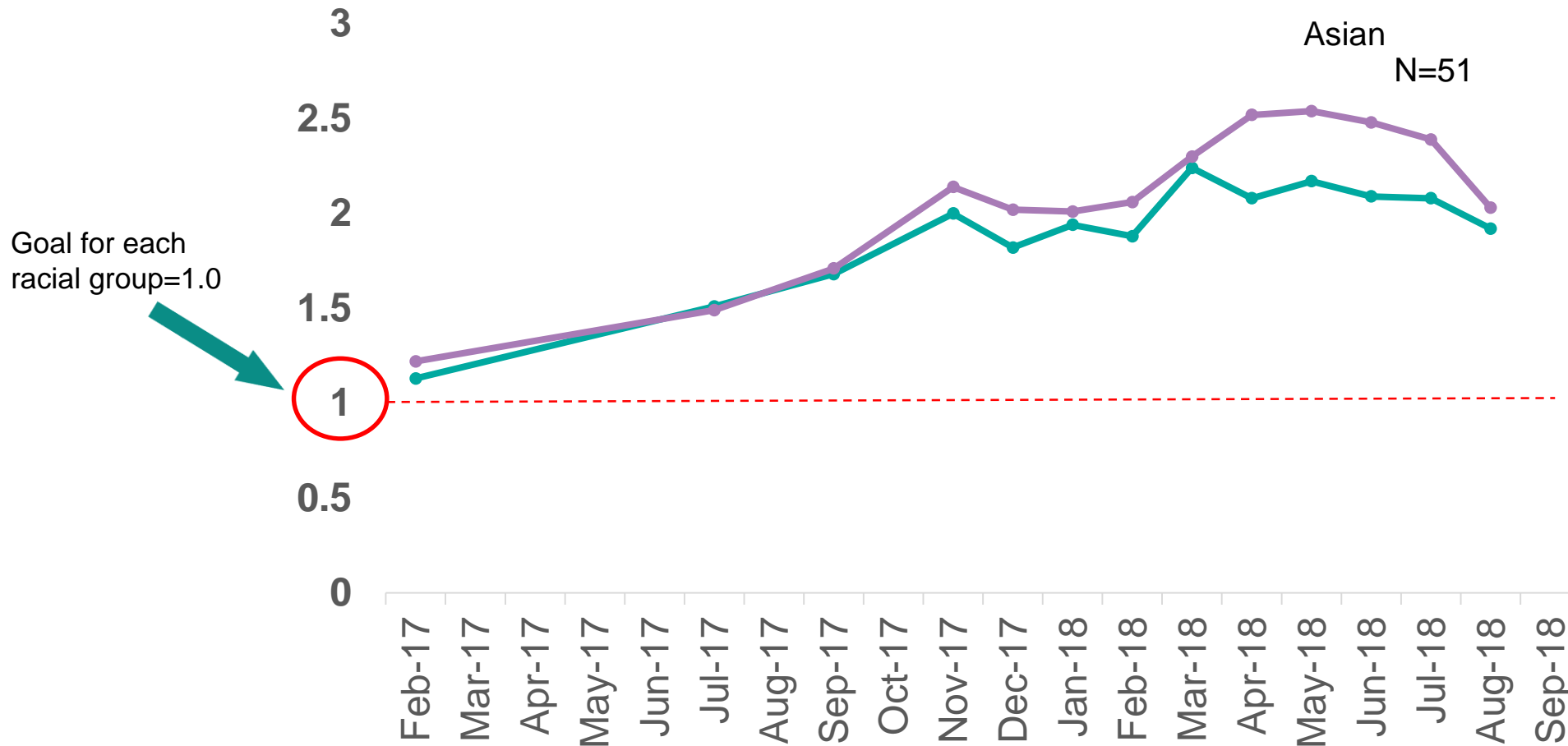
Health Equity Index - asthma over time at ABSMC

small sample size

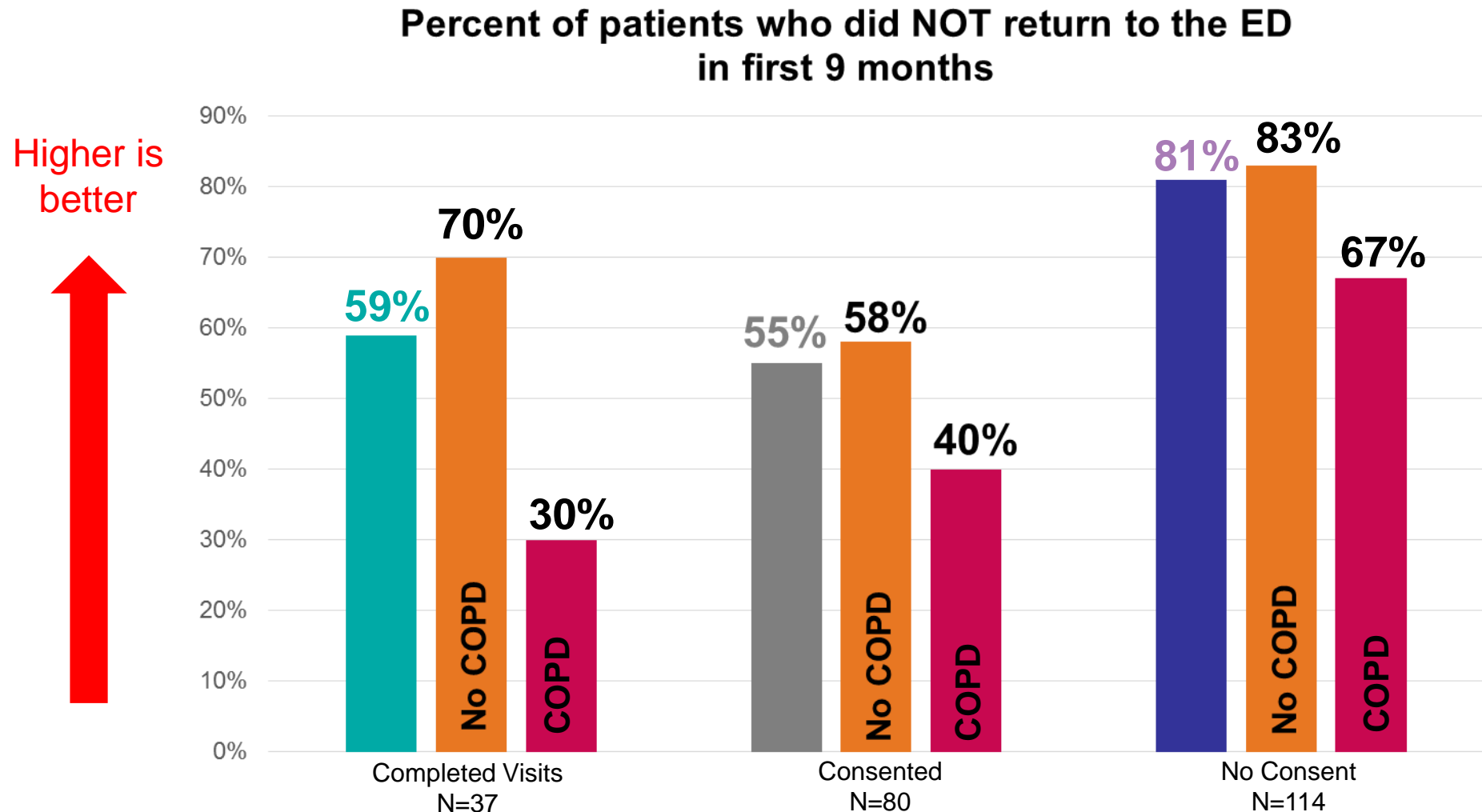


Health Equity Index - asthma over time at ABSMC

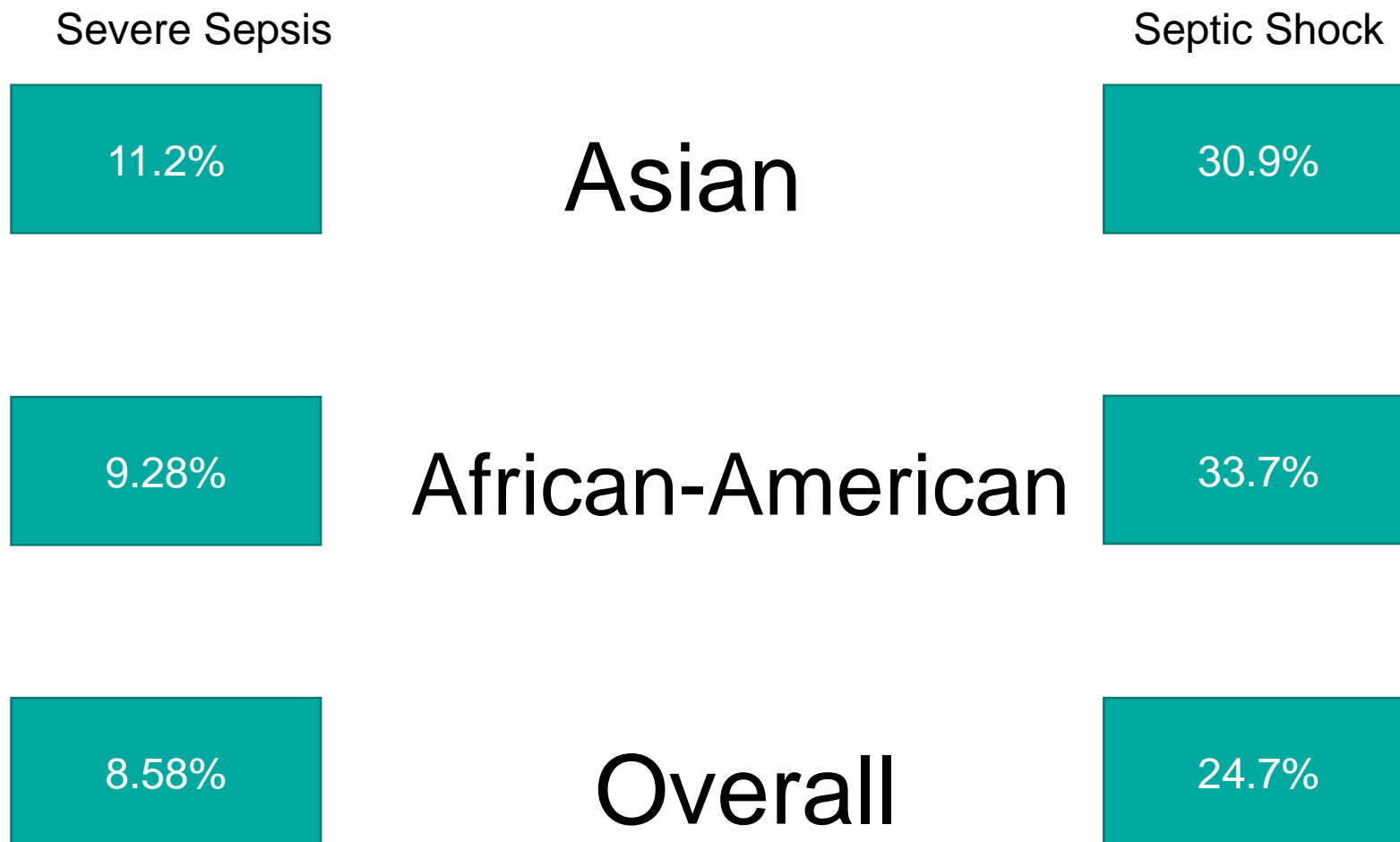
small sample size



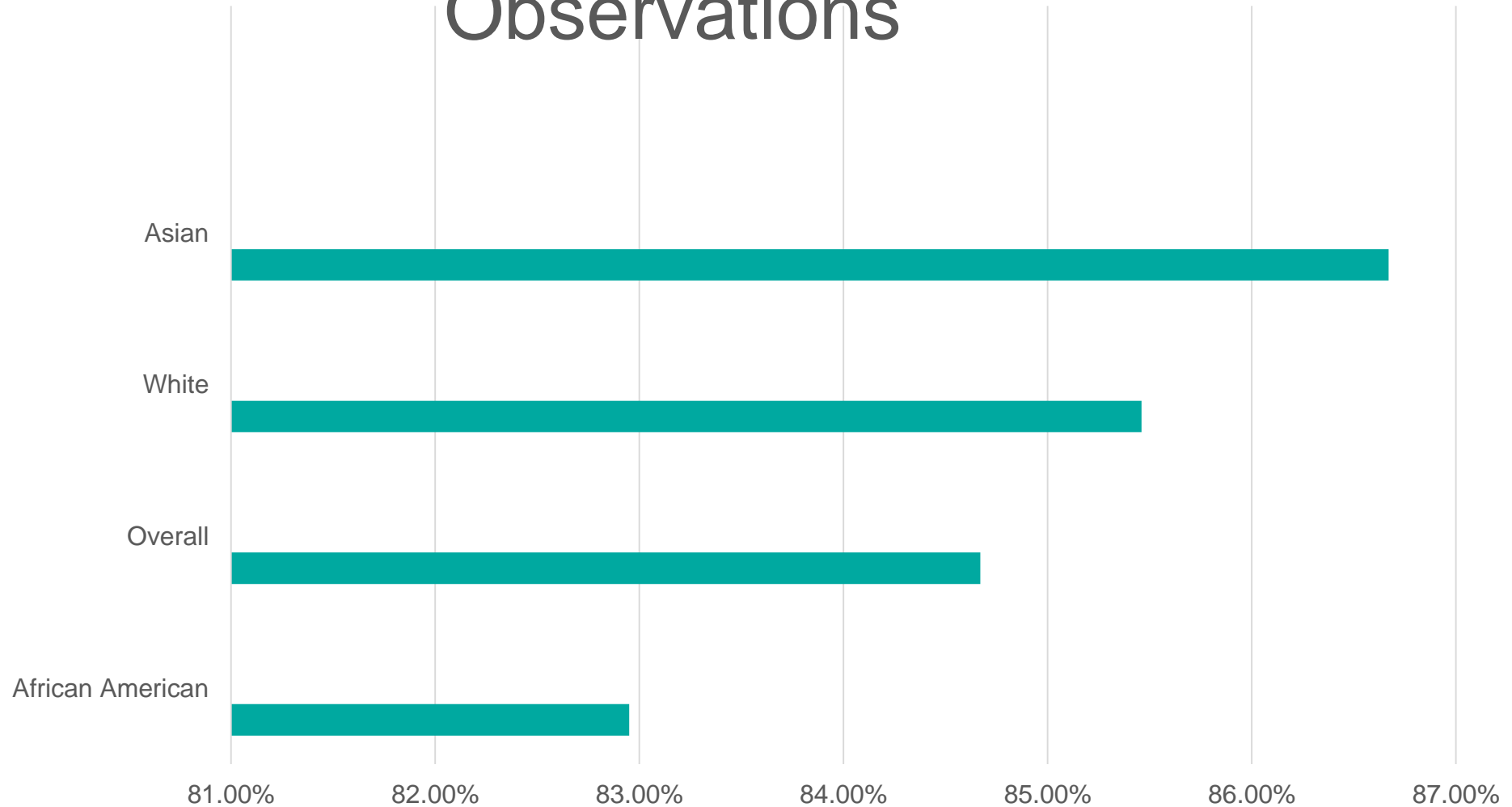
Early Pilot Outcomes



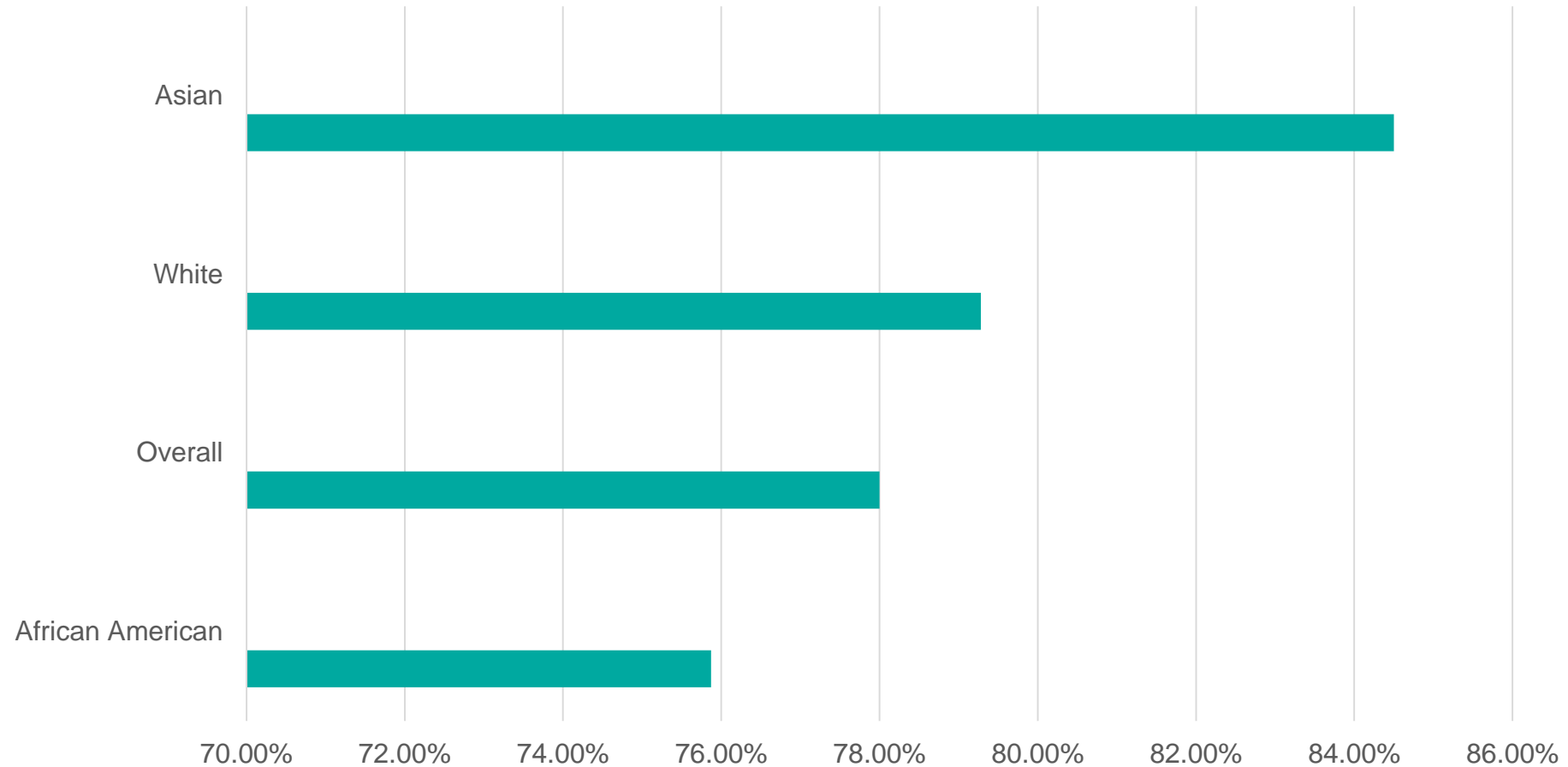
Sepsis Mortality: Preliminary Observations



Breast Cancer Screening Observations

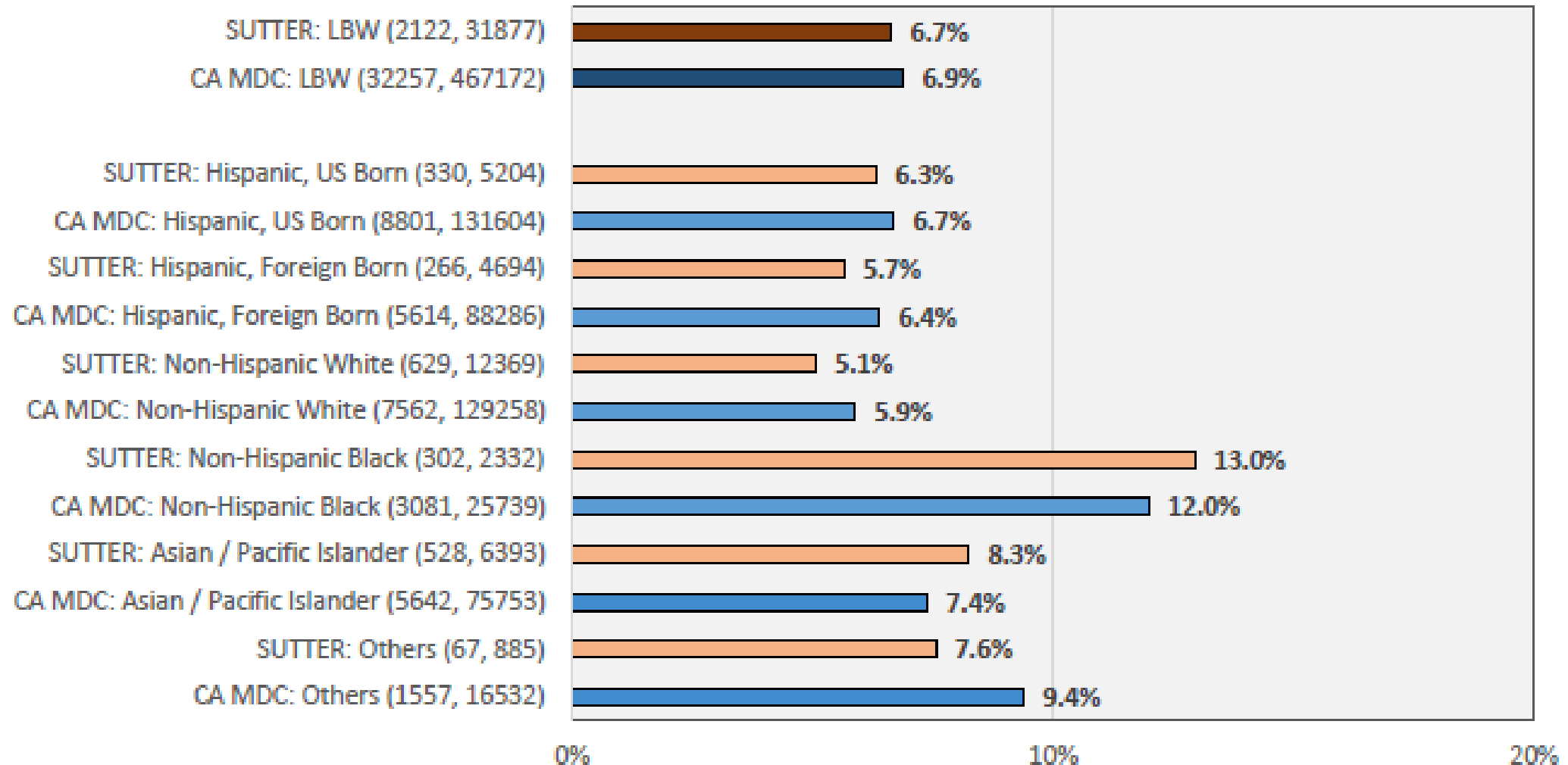


Colon Cancer Screening Observations



2017

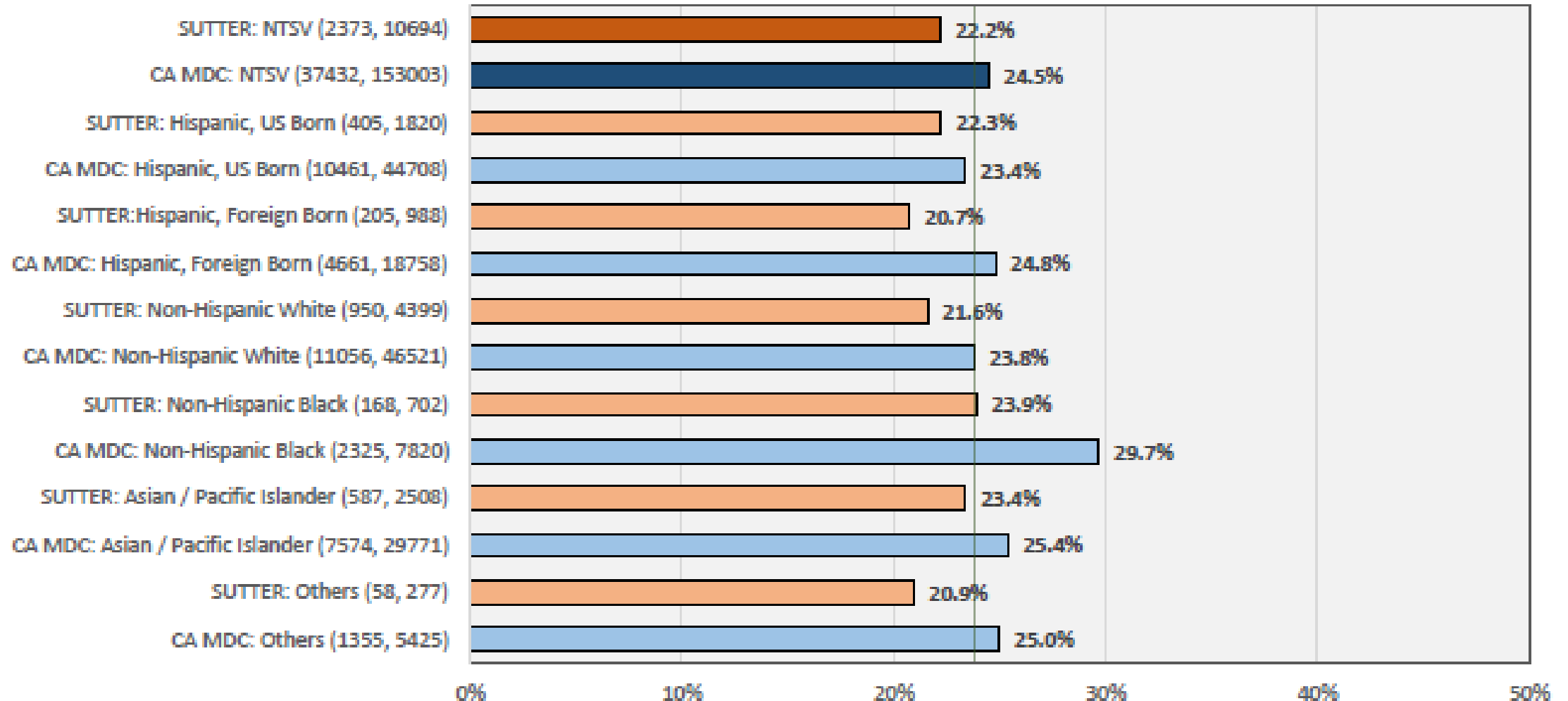
Race/Ethnicity: Low Birth Weight (<2500 grams)



2017

Race/Ethnicity: Cesarean Birth: NTSV - Nullip Term Singleton Vertex (PC-02: Period-Specific)

HP2020 Target: ≤23.9%

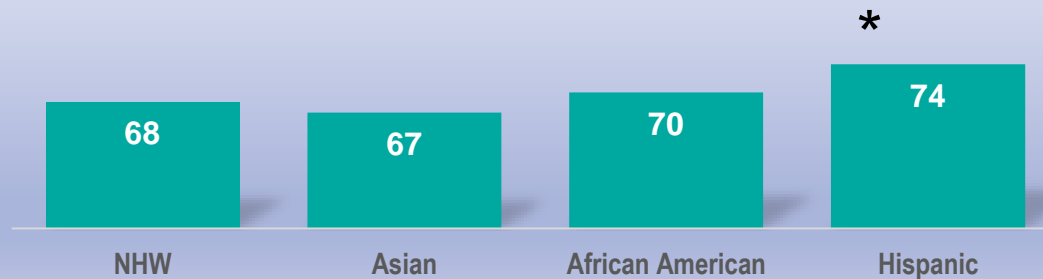


Opioid Prescribing at Discharge for Long Bone Fx in 2016

Sutter Health Emergency Departments (22 sites)

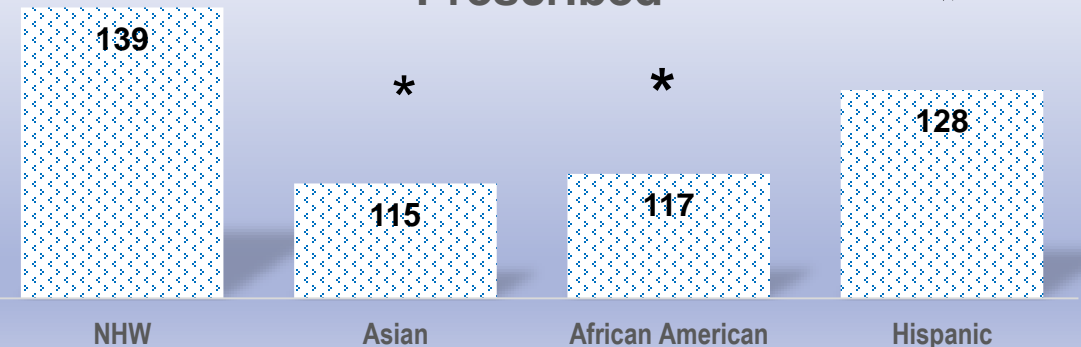
Prescribing of opioids was similar across Racial/Ethnic groups. Only Hispanic patients were *statistically significantly* (*) more likely to receive an opioid than NHWs. (74% vs 68%)

Percentage of Patients with Long-Bone Fractures Receiving an Opioid Prescription



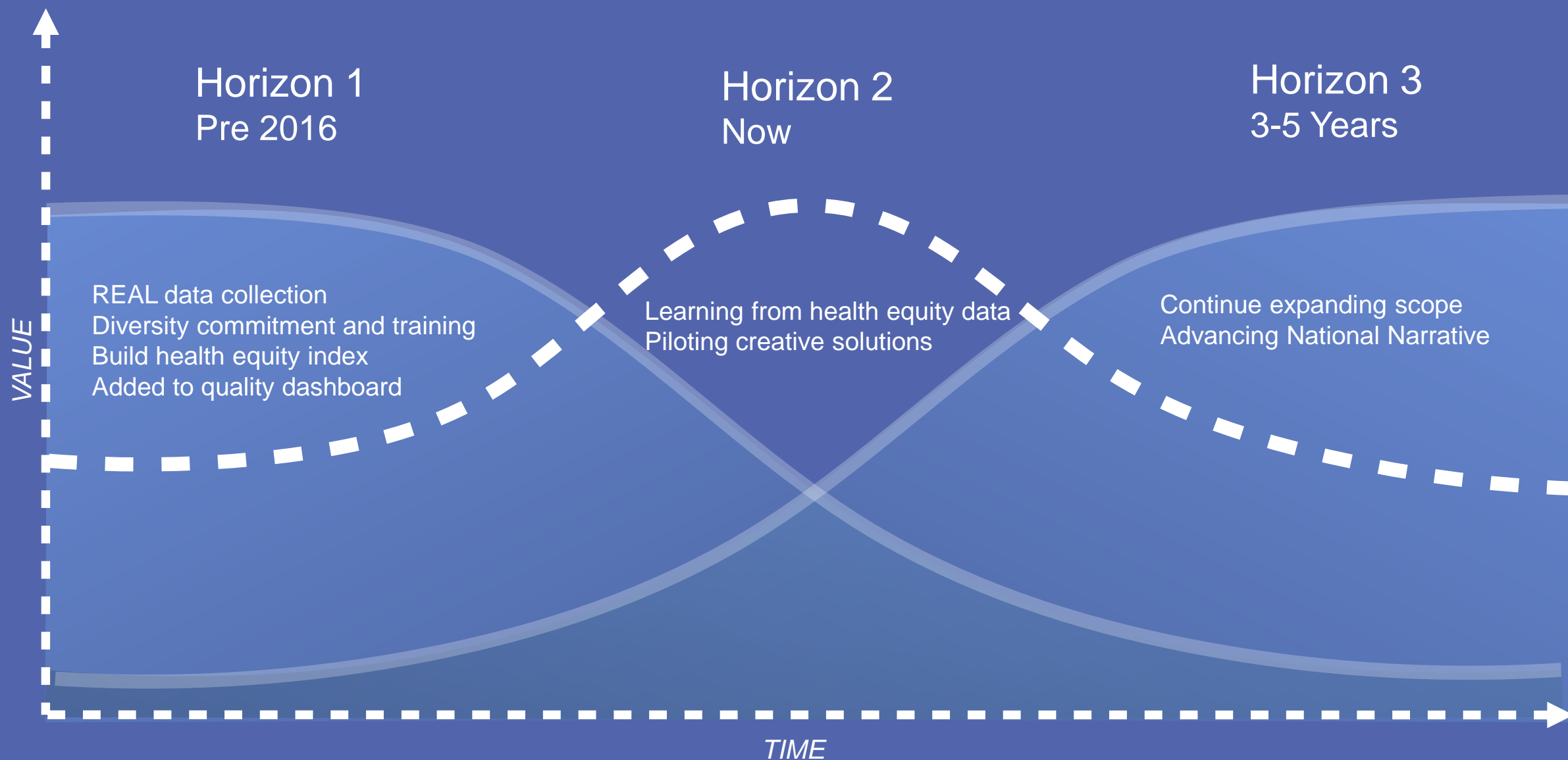
The level of analgesia (total morphine milligram equivalence) was *statistically significantly* (*) lower, on average, for Asians, African Americans, and Hispanics compared with

Average Morphine Milligram Equivalence Prescribed



TAKE AWAY: At discharge from the ED, minority groups receive opioid prescriptions at the same, or higher, rate as NHWs, yet they receive, on average, less potent analgesia. Such differences may represent an overprescribing of opioids to NHWs.

THREE HORIZONS





FUTURE



Thank you

