

**Boston Opioid Mortality by raceaar, AARs per 100000 residents, from 2019-2023**

<b>Year</b>	<b>raceaar</b>	<b>Deaths</b>	<b>AAR</b>	<b>95% Confidence Interval</b>
2019	Asian nL	n<5	n/a	n/a
2020	Asian nL	5	9.4	(4.4-20.1)
2021	Asian nL	n<5	n/a	n/a
2022	Asian nL	n<5	n/a	n/a
2023	Asian nL	6	10.8	(5.5-21.3)
2019	Black nL	41	34.3	(25.0-47.0)
2020	Black nL	83	73.7	(59.4-91.4)
2021	Black nL	75	65.4	(52.0-82.3)
2022	Black nL	86	76.8	(62.1-94.9)
2023	Black nL	104	97.7	(81.0-117.9)
2019	Latinx	39	38.7	(28.4-52.7)
2020	Latinx	52	50.8	(38.9-66.4)
2021	Latinx	63	63.1	(49.7-80.1)
2022	Latinx	55	54.2	(42.0-70.0)
2023	Latinx	63	62.8	(49.6-79.4)
2019	White nL	87	35.9	(29.5-43.7)
2020	White nL	103	46.2	(38.8-54.9)
2021	White nL	102	48.1	(40.6-56.9)
2022	White nL	95	41.6	(34.7-49.9)
2023	White nL	96	42.3	(35.4-50.6)

**% Change over time 2019-2023**

raceaar	Total Percent Change	95% Confidence Interval	p-value
Asian nL	62.00%	(-43.7-365.8)	0.3709
Black nL	113.80%	(60.4-185.1)	<.0001
Latinx	46.20%	(5.3-103.1)	0.0233
White nL	7.80%	(-14.0-35.2)	0.5135

DATA SOURCE: Boston resident deaths, Massachusetts Department of Public Health (data as of May 2024)

DATA ANALYSIS: Boston Public Health Commission (BPHC) Research and Evaluation Office

**% Change Over Time 2022-2023**

raceaar	Total Percent Change	95% Confidence Interval	p-value
Asian nL	30.50%	(-53.8-268.1)	0.6153
Black nL	27.30%	(-4.1-68.9)	0.0953
Latinx	15.70%	(-18.2-63.6)	0.4098
White nL	1.60%	(-21.3-31.1)	0.9053

DATA SOURCE: Boston resident deaths, Massachusetts Department of Public Health (data as of May 2024))

DATA ANALYSIS: Boston Public Health Commission (BPHC) Research and Evaluation Office

**Boston Opioid Mortality by boston, AARs per 100000 residents,**

Year	boston	Deaths	AAR	95% Confidence Interval
2019	Boston	173	31.7	(27.5-36.5)
2020	Boston	248	46.1	(41.0-51.9)
2021	Boston	251	48.4	(43.2-54.3)
2022	Boston	243	45	(40.0-50.6)
2023	Boston	273	51.8	(46.4-57.7)

**% Change Over Time 2019-2023**

boston	Total Percent Change	95% Confidence Interval	p-value
Boston	41.80%	(21.9-65.0)	<.0001

DATA SOURCE: Boston resident deaths, Massachusetts Department of Public Health (data as of May 2024))

DATA ANALYSIS: Boston Public Health Commission (BPHC) Research and Evaluation Office

**% Change Over Time 2022-2023**

boston	Total Percent Change	95% Confidence Interval	p-value
Boston	15.00%	(-2.0-35.1)	0.0873

DATA SOURCE: Boston resident deaths, Massachusetts Department of Public Health (data as of May 2024))

2023 compare

Testing 'opioid'			
Comparison	rate_ratio	p-value	Percent Difference
A - W	0.26	0.0001	-74.4
B - W	2.31	<.0001	131
L - W	1.48	0.0089	48.4

DATA SOURCE: Boston resident deaths, Massachusetts Department of Public Health (data as of May 2024))

DATA ANALYSIS: Boston Public Health Commission (BPHC) Research and Evaluation Office

2022 compare

Boston 'opioid' Mortality by race/ethnicity combined years, AARs per 100000 Residents

Testing 'opioid'			
Comparison	rate_ratio	p-value	Percent Difference
A - W	0.2	<.0001	-80.1
B - W	1.84	<.0001	84.4
L - W	1.3	0.0976	.

DATA SOURCE: Boston resident deaths, Massachusetts Department of Public Health (data as of May 2024)

DATA ANALYSIS: Boston Public Health Commission (BPHC) Research and Evaluation Office

**Boston CDC drug Mortality by raceaar, AARs per 100000 residents, from 2019-2023**

<b>Year</b>	<b>raceaar</b>	<b>Deaths</b>	<b>AAR</b>	<b>95% Confidence Interval</b>
2019	Asian nL	8	13.1	(6.8-25.2)
2020	Asian nL	7	11.8	(6.0-23.3)
2021	Asian nL	n<5	n/a	n/a
2022	Asian nL	5	8.8	(4.1-18.9)
2023	Asian nL	6	10.8	(5.5-21.3)
2019	Black nL	51	42.8	(32.3-56.8)
2020	Black nL	89	77.9	(63.2-96.1)
2021	Black nL	88	77	(62.3-95.1)
2022	Black nL	103	91.2	(75.1-110.8)
2023	Black nL	129	116.6	(98.2-138.5)
2019	Latinx	43	42.2	(31.4-56.8)
2020	Latinx	55	53.3	(41.0-69.2)
2021	Latinx	70	70.4	(56.2-88.2)
2022	Latinx	62	61.6	(48.5-78.3)
2023	Latinx	66	65.1	(51.7-82.0)
2019	White nL	98	40.3	(33.5-48.5)
2020	White nL	114	51	(43.3-60.2)
2021	White nL	118	54.9	(46.9-64.3)
2022	White nL	103	44.8	(37.6-53.3)
2023	White nL	107	47.3	(39.9-56.0)

**% Change Over Time 2019-2023**

raceaar	Total Percent Change	95% Confidence Interval	p-value
Asian nL	-24.60%	(-69.6-87.0)	0.5429
Black nL	124.50%	(71.8-193.2)	<.0001
Latinx	44.20%	(5.3-97.6)	0.0227
White nL	6.50%	(-14.1-32.0)	0.564

DATA SOURCE: Boston resident deaths, Massachusetts Department of Public Health (data as of May 2024))

**% Change Over Time 2022-2023**

raceaar	Total Percent Change	95% Confidence Interval	p-value
Asian nL	23.00%	(-55.7-241.0)	0.6913
Black nL	27.90%	(-1.4-65.8)	0.0635
Latinx	5.60%	(-24.2-47.3)	0.7464
White nL	5.60%	(-17.2-34.7)	0.662

DATA SOURCE: Boston resident deaths, Massachusetts Department of Public Health (data as of May 2024)

DATA ANALYSIS: Boston Public Health Commission (BPHC) Research and Evaluation Office

**Boston CDC drug Mortality by boston, AARs per 100000 residents,**

Year	boston	Deaths	AAR	95% Confidence Interval
2019	Boston	206	37.5	(32.9-42.7)
2020	Boston	271	50.1	(44.7-56.1)
2021	Boston	289	55.6	(50.0-61.9)
2022	Boston	276	51.1	(45.7-57.1)

2023 Boston 313 58.5 (52.8-64.9)

**% Change Over Time 2019-2023**

<b>boston</b>	<b>Total</b>	<b>95%</b>	<b>p-value</b>
	<b>Percent</b>	<b>Confidenc</b>	
	<b>Change</b>	<b>Interval</b>	
Boston	40.50%	(21.9-61.9)	<.0001

DATA SOURCE: Boston resident deaths, Massachusetts Department of Public Health (data as of May 2024))

DATA ANALYSIS: Boston Public Health Commission (BPHC) Research and Evaluation Office

**% Change Over Time 2022-2023**

<b>boston</b>	<b>Total</b>	<b>95%</b>	<b>p-value</b>
	<b>Percent</b>	<b>Confidence</b>	
	<b>Change</b>	<b>Interval</b>	
Boston	14.60%	(-1.5-33.2)	0.0776

DATA SOURCE: Boston resident deaths, Massachusetts Department of Public Health (data as of May 2024)

DATA ANALYSIS: Boston Public Health Commission (BPHC) Research and Evaluation Office

2023 compare

**Testing 'any drug'**

<b>Comparison</b>	<b>rate_ratio</b>	<b>p-value</b>	<b>Percent Difference</b>
A - W	0.23	<.0001	-77.1
B - W	2.47	<.0001	146.8
L - W	1.38	0.0282	37.8

DATA SOURCE: Boston resident deaths, Massachusetts Department of Public Health (data as of May 2024))



DATA ANALYSIS: Boston Public Health Commission (BPHC) Research and Evaluation Office

2022 compare

**Testing 'Yes'**

Comparison	rate_ratio	p-value	Percent Difference
A - W	0.19	<.0001	-80.8
B - W	2.04	<.0001	103.9
L - W	1.34	0.0496	34.5

DATA SOURCE: Boston resident deaths, Massachusetts Department of Public Health (data as of May 2024))

DATA ANALYSIS: Boston Public Health Commission (BPHC) Research and Evaluation Office