

# Public Health Impacts of Flavored Tobacco and Nicotine Products in Kansas City, MO

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Neighborhood, Planning, and Development Committee



# Objectives:

- Demonstrate local health outcomes and costs associated with tobacco and nicotine products
- Discuss equity concerns
- Discuss outcomes of other flavored tobacco and nicotine bans

# Health Outcomes

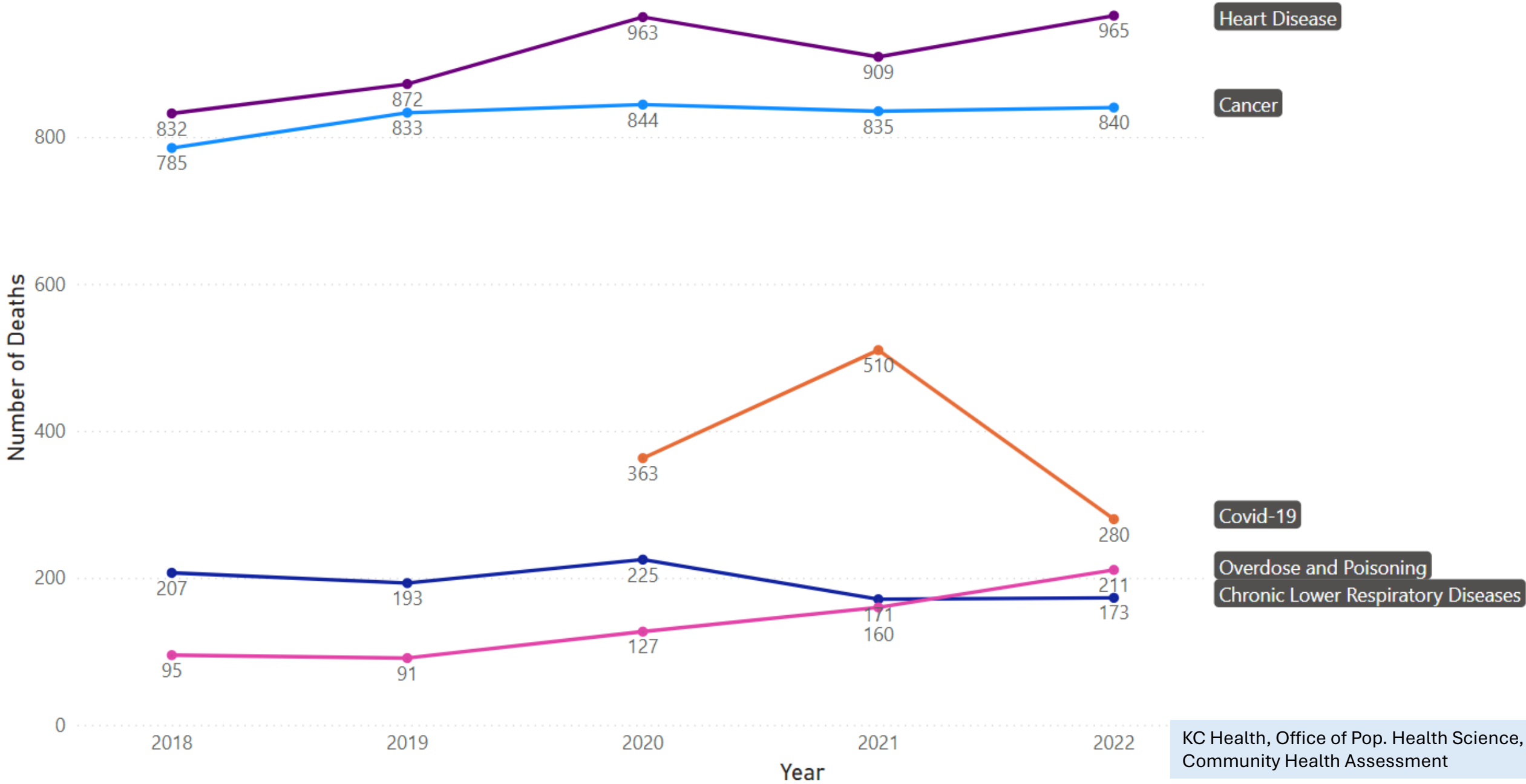


# Life Expectancy

- Gap of 31 years between highest (93) life expectancy census tracts and lowest (62)
- Nicotine and tobacco products contribute to heart disease, cancers, chronic respiratory illnesses, and cancers

# Top Causes of Death in Kansas City

**Cause of Death** ● Cancer ● Chronic Lower Respiratory Diseases ● Covid-19 ● Heart Disease ● Overdose and Poisoning



# Costs of Healthcare



# Tobacco-Related Chronic Disease

**68,206 people in KCMO are uninsured (13.4%)—US. Census, 2022**

Condition	Average Annual Hospitalizations	Average Annual Cost of Hospitalizations
Lung Cancer	793	\$9,400,820
Emphysema	1,061	\$50,813,314
Chronic Obstructive Pulmonary Disease (COPD)	13,397	\$626,332,898

Age Group	Hospital Stays - <u>Nicotine Dependent Patients</u>			Hospital Stays – <u>without Nicotine Dependence</u>		
	Average Length (Days)	Admitted as Inpatient	Average Cost	Average Length (Days)	Admitted as Inpatient	Average Cost
10-19	<b>7.1</b>	<b>84%</b>	<b>\$13,972</b>	<b>3.3</b>	<b>45%</b>	<b>\$8,639</b>
20-34	3.4	70%	\$12,600	1.8	44%	\$6,985
35-64	3.1	60%	\$13,650	2.0	28%	\$4,897
65-84	3.3	57%	\$22,129	2.6	33%	\$7,777
85 and Older	4.1	74%	\$33,163	3.7	58%	\$22,634

Data Source: Kansas City Hospitalization Data provided by Missouri Department of Health and Senior Services, 2016-2020

Individuals who are noted as having a nicotine dependence or tobacco use in their medical chart

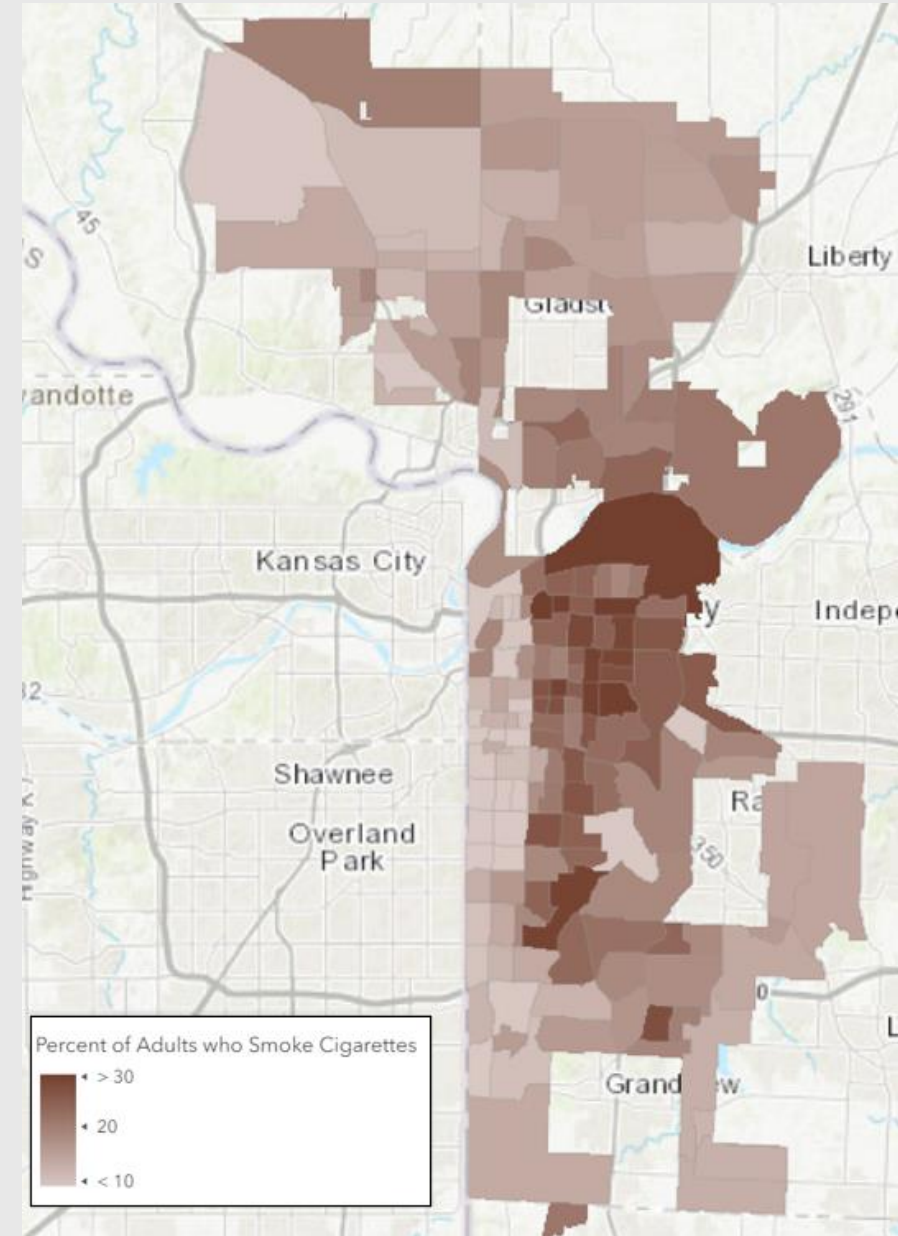


# Equity Concerns



# Tobacco Use in Kansas City, MO

- Current cigarette use citywide is 17.7%:
  - 24.6% east of Troost
  - 11.6% west of Troost
- Residents across the 3rd, 5th, and 4th districts smoke at highest rates in the city, between 32% and 36%
- Cigarette use is the fourth leading driver of inequity in life expectancy across Kansas City

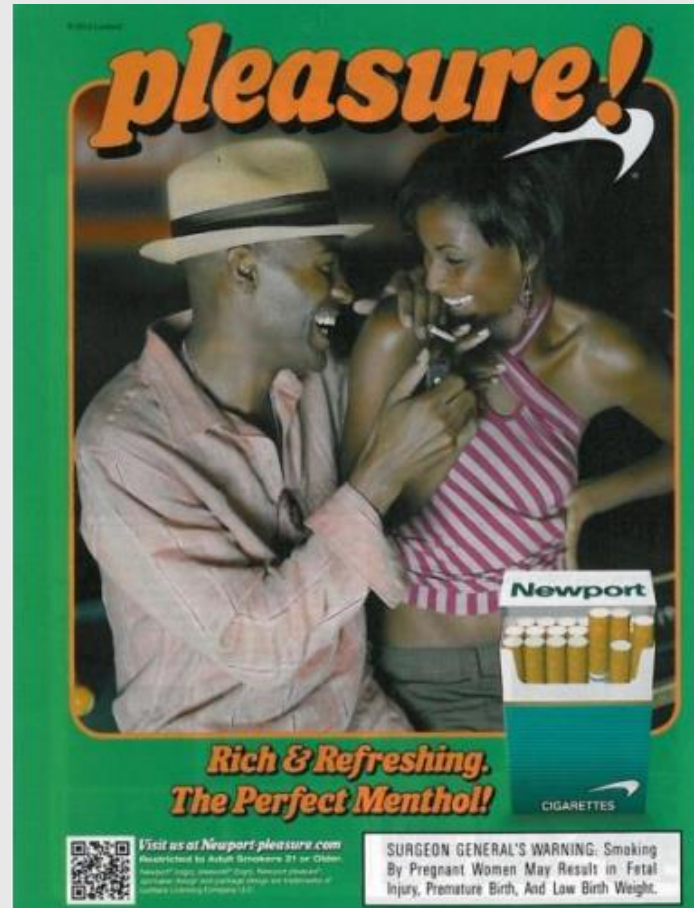


# Disproportionate Impact

- Tobacco use remains the leading cause of preventable death among Black Americans, claiming 45,000 of their lives each year
- Black Americans die at higher rates than other groups from tobacco-related diseases such as cancer, heart disease and stroke
- Lung cancer kills more Black Americans than any other type of cancer.

# Mentholated products....

- Smoked by 85% of Black smokers
- Reduce throat irritation from inhaling and increase the amount of nicotine consumed
- Are more attractive to new smokers
- Continue to be aggressively marketed to African Americans, especially in low-income communities
- Increase smoking initiation and progression to regular smoking among youth and young adults
- Increase nicotine dependence (addiction)
- Reduce success in quitting smoking



# Impacts of flavored tobacco/nicotine restrictions



# San Francisco/Oakland

No evidence of switching to non-flavored products

Flavored tobacco ban goes into effect

July 2018

Flavored tobacco sales decline to near zero

January 2019

Total tobacco sales decline by 25%

December 2019

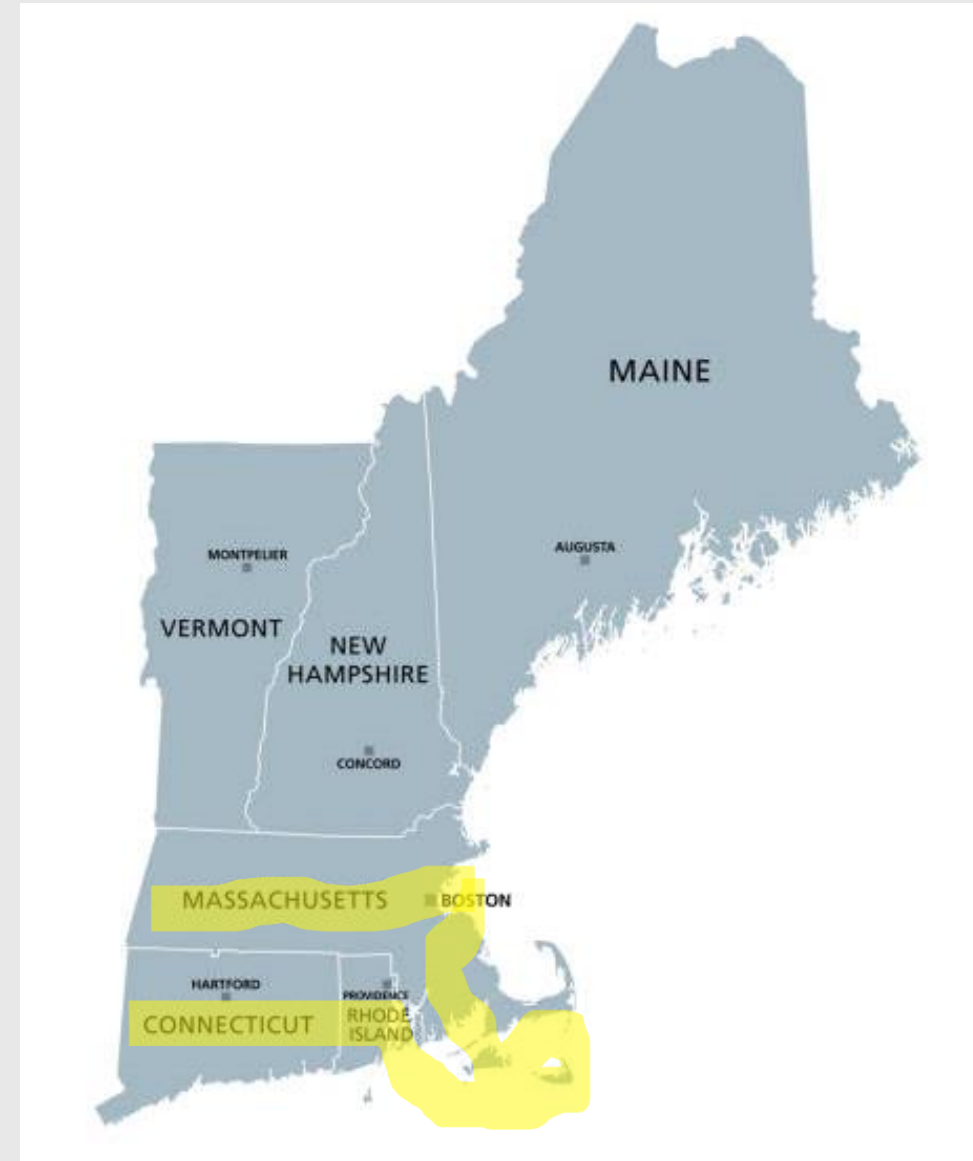


# Massachusetts (May 2020)

**Table 2. Four-Week Sales of Packs of Menthol, Nonflavored, and All Cigarettes per 1000 People Before and After Massachusetts' Menthol Flavor Ban**

Type of cigarette	Per 1000 people (95% CI)						Difference-in-differences estimate (95% CI)		P value
	Massachusetts			Comparison states <sup>a</sup>			Unadjusted	Adjusted <sup>b</sup>	
	Before flavor ban (January 2017-May 2020)	After flavor ban (June 2020-July 2021)	Difference	Before flavor ban (January 2017-May 2020)	After flavor ban (June 2020-July 2021)	Difference			
Menthol cigarettes	404.93 (391.00 to 418.85)	32.24 (8.16 to 56.32)	-372.68 (-399.77 to -345.60)	738.33 (709.71 to 766.95)	717.73 (668.84 to 766.61)	-20.60 (-77.28 to 36.08)	-352.08 (-648.84 to -55.32)	-372.27 (-428.90 to -315.64)	<.001
Nonflavored cigarettes	916.37 (872.72 to 960.01)	856.79 (807.24 to 906.33)	-59.58 (-138.82 to 19.66)	1524.85 (1469.01 to 1580.68)	1361.00 (1268.00 to 1454.00)	-163.85 (-273.74 to -53.95)	104.27 (-470.83 to 679.36)	120.25 (72.61 to 167.88)	<.001
All cigarettes	1321.32 (1265.04 to 1377.60)	887.69 (818.16 to 957.22)	-433.63 (-536.85 to -330.40)	2263.36 (2181.19 to 2345.53)	2180.56 (1942.59 to 2218.54)	-182.80 (-344.84 to -20.76)	-250.83 (-1098.24 to 596.58)	-282.65 (-356.07 to -209.23)	<.001
Observations, No.	44	15	NA	1188	405	NA	1652	1652	NA

- Neighboring states VT, NY, RI saw declines in overall tobacco sales
- Initial increases in cross-border sales observed in NH immediately after the MA restrictions
  - Not sustained after 6 months





**Questions?**

