

Supplemental

Supplemental Table 1: The burden of TBL cancer due to Tobacco in SA. Presented in death rates and DALYs rates (per 100,000) from 2019, and relative change 1990-1994 and 2015-2019 according to sex. SA- South America. DALYs – Disabilities-Adjusted Life Years. TBL – Tracheal, Bronchus and Lung Cancer.

Burden of Tracheal, Bronchus, and Lung Cancer due to Tobacco								
Country	Male				Female			
	Death Rate 2019	UI Death 2019	DALYs Rate 2019	UI DALYs	Death Rate 2019	UI Death 2019	DALYs Rate 2019	UI DALYs
Argentina	28.8	[26.8, 31.1]	654.2	[605, 704]	9.1	[8.2, 10.1]	216.2	[192, 240]
Bolivia	9.3	[5.4, 13.4]	185.8	[108, 268]	1.2	[0.7, 1.9]	27.2	[15, 42]
Brazil	14.2	[13.1, 15.3]	299.1	[278, 322]	6.3	[5.7, 6.8]	142.4	[130, 155]
Chile	13.0	[11.7, 14.3]	284.3	[259, 310]	6.3	[5.5, 7.1]	139.6	[124, 157]
Colombia	7.1	[5.3, 9.2]	149.7	[111, 198]	3.2	[2.4, 4.1]	66.6	[50, 87]
Ecuador	6.9	[5.5, 8.8]	128.4	[98, 166]	1.8	[1.3, 2.4]	35.5	[26, 48]
Guyana	6.6	[5.1, 8.4]	154.6	[117, 202]	1.3	[1.0, 1.8]	31.9	[23, 44]
Paraguay	19.7	[15.1, 25.4]	413.6	[312, 545]	3.3	[2.5, 4.3]	64.4	[47, 86]

Peru	3.6	[2.5, 5.0]	72.9	[50, 103]	0.9	[0.6, 1.3]	19.5	[13, 29]
Suriname	15.9	[12.8, 19.6]	361.9	[289, 451]	3.8	[2.9, 4.9]	88.8	[68, 114]
Uruguay	42.6	[39.5, 45.7]	1000.6	[925, 1076]	8.8	[7.8, 9.8]	223.6	[200, 252]
Venezuela	15.1	[11.1, 19.8]	330.4	[241, 440]	4.9	[3.4, 6.8]	106.3	[73, 149]

Supplemental Table 2: Relative change of the burden of Tracheal, Bronchus, and Lung Cancer (TBL) due to Tobacco, comparing 1990-1994 and 2015-2019 according to sex. SA- South America. DALYs – Disabilities-Adjusted Life Years. Rates per 100, 000 individuals.

Relative Change of Burden of Tracheal, Bronchus, and Lung Cancer due to Tobacco								
Country	Male				Female			
	Relative Change (%) Death Rate	UI Death Rate	Relative Change (%) DALYs Rate	UI DALYs Rate	Relative Change (%) Death Rate	UI Death Rate	Relative Change (%) DALYs Rate	UI DALYs Rate
Argentina	-34.1	[-36.0, -32.1]	-40.2	[-42.3, -38.2]	36.1	[34.2, 38.0]	33.3	[31.2, 35.5]

Bolivia	-28.8	[-32.8,- 24.8]	-33.4	[-37.9, -29.0]	-21.7	[- 24.9, - 18.5]	-26.1	[-29.1, -23.1]
Brazil	-33.9	[-36.9,- 30.9]	-39.5	[-42.4, -36.6]	2.6	[-0.5, 5.7]	0.6	[-2.8, 4.0]
Chile	-29.5	[-34.1,- 24.9]	-35.8	[-41.5, -30.2]	16.0	[15.3 , 16.7]	8.8	[7.9, 9.6]
Colombi a	-48.7	[-52.0,- 45.3]	-52.1	[-55.6, -48.5]	-38.6	[- 41.2, - 35.9]	-42.6	[-45.8, -39.4]
Ecuador	-13.5	[-16.2,- 10.8]	-23.9	[-26.7, -21.0]	6.0	[2.6, 9.5]	-3.4	[-6.3, - 0.4]
Guyana	-9.5	[-13.1,- 6.0]	-10.7	[-14.8, -6.5]	10.5	[8.6, 12.4]	10.8	[8.9, 12.7]
Paragua y	34.1	[29.7,38.5]	24.1	[19.4, 28.8]	17.6	[14.1 , 21.1]	10.2	[6.9, 13.5]
Peru	-45.5	[-50.5,- 40.5]	-49.7	[-55.0, -44.4]	-25.2	[- 29.6, - 20.9]	-29.7	[-33.7, -25.7]

Suriname						[17.7		
e	3.4	[-1.8,8.6]	1.8	[-3.7, 7.3]	20.4	, 23.1]	17.2	[14.6, 19.9]
Uruguay						[71.7		
	-33.8	[-35.8,- 31.9]	-37.9	[-40.0, -35.8]	74.7	, 77.7]	75.7	[72.4, 79.0]
Venezuela						[- 21.1,		
a	-24.7	[-26.3,- 23.1]	-29.4	[-30.9, -27.9]	-17.9	- 14.8]	-23.2	[-26.5, -19.8]

Supplemental Table 3: The burden of TBL cancer due to smoking in SA. Presented in death rates, DALYs rates (per 100,000) from 2019, according to sex. SA- South America. DALYs – Disabilities-Adjusted Life Years. TBL – Tracheal, Bronchus and Lung Cancer.

Burden of Tracheal, Bronchus, and Lung Cancer due to Smoking								
Country	Male				Female			
	Death	UI	DALYs	UI	Death	UI	DALYs	UI
	Rate	Death	Rate	DALYs	Rate	Death	Rate	DALYs
	2019		2019		2019		2019	
Argentina	28.8	[26.1, 30.4]	640.1	[591.4, 688.7]	8.8	[7.9, 9.7]	208.3	[185.2, 231.8]
Bolivia	9.3	[5.3, 13.2]	182.7	[105.4, 264.1]	1.1	[0.6, 1.7]	23.8	[13.3, 38.2]
Brazil	14.2	[12.8, 14.8]	291.0	[271.1, 312.4]	6.0	[5.4, 6.5]	135.2	[122.8, 146.9]

Chile	13.0	[11.3, 13.8]	274.8	[249.4, 300.1]	6.0	[5.2, 6.7]	133.2	[117.7, 148.7]
Colombia	7.1	[5.1, 8.9]	144.2	[106.0, 189.9]	3.0	[2.2, 3.8]	61.9	[46.4, 80.5]
Ecuador	6.9	[5.3, 8.7]	126.3	[96.9, 163.6]	1.7	[1.2, 2.2]	33.0	[24.2, 44.5]
Guyana	6.6	[4.9, 8.1]	150.1	[113.7, 195.5]	1.2	[0.9, 1.6]	26.8	[19.3, 36.7]
Paraguay	19.7	[14.9, 24.9]	405.4	[305.5, 533.6]	3.1	[2.3, 4.1]	58.4	[42.8, 77.9]
Peru	3.6	[2.4, 4.8]	69.5	[47.1, 98.1]	0.7	[0.5, 1.0]	16.0	[10.2, 23.9]
Suriname	15.9	[12.7, 19.3]	354.8	[283.7, 440.5]	3.4	[2.6, 4.4]	78.3	[59.5, 100.9]
Uruguay	42.6	[38.6, 44.7]	978.9	[905.5, 1052.3]	8.3	[7.4, 9.3]	212.7	[188.8, 238.5]
Venezuela	15.1	[10.8, 19.2]	319.9	[234.1, 422.8]	4.5	[3.2, 6.3]	97.6	[66.9, 138.6]

Supplemental Table 4: The relative change in burden of TBL cancer due to smoking in SA, presented as the relative change in % comparing periods from 1990-1994 and 2015-2019. SA- South America. DALYs – Disabilities-Adjusted Life Years. TBL – Tracheal, Bronchus and Lung Cancer.

Relative Change of Burden of Tracheal, Bronchus, and Lung Cancer due to Smoking								
Country	Male				Female			
	Relative	CI	Relative	CI	Relative Change	CI	Relative	CI
	e		e		(%)		e	

	Change (%) Death Rate	Deat h Rate	Change (%) DALYs Rate	DALY s Rate	Death Rate	Deat h Rate	Change (%) DALYs Rate	DALY s Rate
Argentina	-34.1	[- 36.1, - 32.1]	-40.2	[-42.3, -38.1]	37.4	[35.5, 39.3]	34.6	[32.4, 36.8]
Bolivia	-29.1	[- 33.1, - 25.0]	-33.7	[-38.1, -29.2]	-23.2	[- 26.4, - 20.0]	-27.8	[-30.8, -24.8]
Brazil	-34.2	[- 37.3, - 31.2]	-39.8	[-42.8, -36.8]	1.7	[-1.6, 5.0]	-0.3	[-3.9, 3.4]
Chile	-29.6	[- 34.2, - 24.9]	-35.9	[-41.6, -30.2]	16.3	[15.5, 17.0]	8.9	[8.1, 9.8]
Colombia	-49.4	[- 52.9, - 46.0]	-52.8	[-56.4, -49.2]	-39.9	[- 42.6, - 37.2]	-43.9	[-47.2, -40.7]

Ecuador	-13.4	[- 16.1, - 10.6]	-23.7	[-26.5, -20.8]	8.5	[4.9, 12.0]	-0.8	[-3.9, 2.2]
Guyana	-9.6	[- 13.1, -6.1]	-10.8	[-14.9, -6.7]	8.8	[7.1, 10.6]	8.2	[6.4, 10.0]
Paraguay	33.4	[29.0, 37.9]	23.4	[18.6, 28.1]	16.1	[12.3, 19.8]	8.1	[4.5, 11.8]
Peru	-45.1	[- 50.2, - 40.1]	-49.3	[-54.7, -44.0]	-22.7	[- 27.2, - 18.1]	-27.0	[-31.3, -22.8]
Suriname	3.9	[-1.4, 9.1]	2.3	[-3.3, 7.9]	21.5	[18.6, 24.4]	17.2	[15.4, 21.3]
Uruguay	-33.9	[- 35.9, - 31.9]	-37.9	[-40.0, -35.8]	78	[74.8, 81.2]	75.7	[75.2, 82.2]
Venezuela	-25.5	[- 27.0, - 24.0]	-30.2	[-31.7, -28.7]	-19.6	[- 22.8, - 16.3]	-23.2	[-28.5, -21.5]

Supplemental Table 5: The burden of TBL cancer due to secondhand smoke in SA. Presented in death rates, DALYs rates (per 100,000) from 2019, according to sex. SA- South America. DALYs – Disabilities-Adjusted Life Years. TBL – Tracheal, Bronchus and Lung Cancer.

Burden of Tracheal, Bronchus, and Lung Cancer due to Secondhand Smoke								
Country	Male				Female			
	Death Rate 2019	UI Death	DALYs Rate 2019	UI DALYs	Death Rate 2019	UI Death	DALYs Rate 2019	UI DALYs
Argentina	2.1	[1.2, 3.3]	47.6	[27.1, 75.2]	0.8	[0.5, 1.2]	19.4	[11.3, 29.7]
Bolivia	0.3	[0.1, 0.5]	5.7	[2.3, 11.1]	0.1	[0.1, 0.3]	3.7	[1.6, 7.1]
Brazil	1.0	[0.5, 1.5]	22.0	[12.6, 33.8]	0.6	[0.3, 0.9]	14.2	[8.4, 21.9]
Chile	1.2	[0.6, 1.9]	24.5	[13.3, 38.4]	0.6	[0.3, 1.0]	13.3	[7.3, 20.9]
Colombia	0.5	[0.2, 0.8]	10.4	[5.1, 17.9]	0.3	[0.1, 0.5]	6.4	[3.2, 11.0]
Ecuador	0.2	[0.1, 0.3]	3.9	[1.7, 7.0]	0.1	[0.1, 0.2]	3.0	[1.4, 5.3]
Guyana	0.4	[0.2, 0.7]	9.5	[5.0, 16.1]	0.2	[0.1, 0.4]	6.1	[3.1, 10.2]
Paraguay	1.1	[0.6, 1.9]	26.3	[14.1, 44.3]	0.4	[0.2, 0.6]	9.1	[4.9, 15.5]
Peru	0.2	[0.1, 0.4]	4.7	[2.0, 9.1]	0.2	[0.1, 0.3]	3.8	[1.7, 7.2]

Suriname	1.0	[0.5, 1.6]	23.0	[12.6, 37.5]	0.6	[0.3, 0.9]	15.3	[8.5, 24.4]
Uruguay	3.4	[2.0, 5.2]	80.7	[47.4, 121.4]	1.0	[0.6, 1.5]	24.7	[14.5, 37.6]
Venezuela	1.0	[0.5, 1.7]	22.3	[10.7, 38.5]	0.5	[0.2, 0.9]	12.3	[5.9, 22.2]

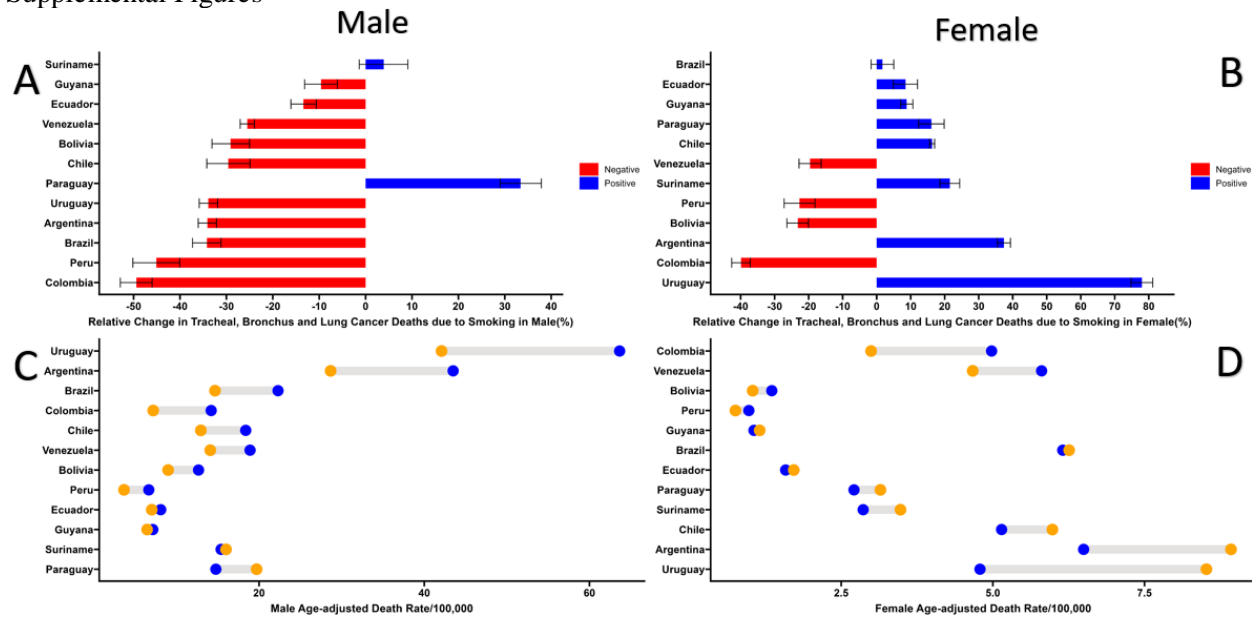
Supplemental Table 6: The relative change in burden of TBL cancer due to Secondhand Smoke in SA, presented as the relative change in % comparing periods from 1990-1994 and 2015-2019. SA- South America. DALYs – Disabilities-Adjusted Life Years. TBL – Tracheal, Bronchus and Lung Cancer.

Relative Change of Burden of Tracheal, Bronchus, and Lung Cancer due to Secondhand Smoke								
Country	Male				Female			
	Relative Change (%) Death Rate	CI Death Rate	Relative Change (%) DALYs Rate	CI DALYs Rate	Relative Change (%) Death Rate	CI Death Rate	Relative Change (%) DALYs Rate	CI DALYs Rate

Argentina	-43.9	[-45.7, -42.2]	-49.3	[-51.1, -47.4]	3.9	[2.2, 5.6]	2.6	[0.8, 4.4]
Bolivia	-31.4	[-36.5, -26.4]	-35.4	[-40.6, -30.1]	-12.7	[-16.5, -9.0]	-16.6	[-19.9, -13.2]
Brazil	-47.6	[-50.1, -45.0]	-51.3	[-54.2, -48.5]	-4.7	[-6.8, -2.7]	-6.4	[-8.3, -4.5]
Chile	-37.3	[-42.6, -32.0]	-43.2	[-49.6, -36.8]	0.7	[-0.7, 2.0]	-5.2	[-6.6, -3.7]
Colombia	-36.5	[-39.7, -33.3]	-41.1	[-44.5, -37.6]	-22.9	[-26.4, -19.3]	-28.2	[-32.4, -24.0]
Ecuador	-38.0	[-41.1, -34.9]	-45.1	[-48.6, -41.5]	-26.7	[-29.4, -24.0]	-32.0	[-34.4, -29.5]

Guyana	-16.3	[- 20.7, - 11.8]	-16.7	[-21.9, -11.5]	16.1	[13.0, 19.3]	20.6	[17.6, 23.7]
Paraguay	52.4	[49.0, 55.9]	41.3	[37.4, 45.2]	25.6	[21.3, 29.9]	20.9	[16.5, 25.3]
Peru	-56.6	[- 61.6, - 51.6]	-58.4	[-63.7, -53.1]	-37.3	[- 42.0, - 32.7]	-41.0	[-45.2, -36.7]
Suriname	-15.5	[- 20.2, - 10.7]	-16.1	[-21.1, -11.0]	10.1	[7.5, 12.8]	7.9	[5.1, 10.6]
Uruguay	-37.7	[- 39.2, - 36.2]	-41.6	[-43.2, -40.1]	40.0	[38.2, 41.9]	42.1	[40.0, 44.2]
Venezuela	-17.1	[- 20.2, - 13.9]	-21.2	[-24.3, -18.1]	-7.0	[-9.7, -4.2]	-11.0	[-13.8, -8.1]

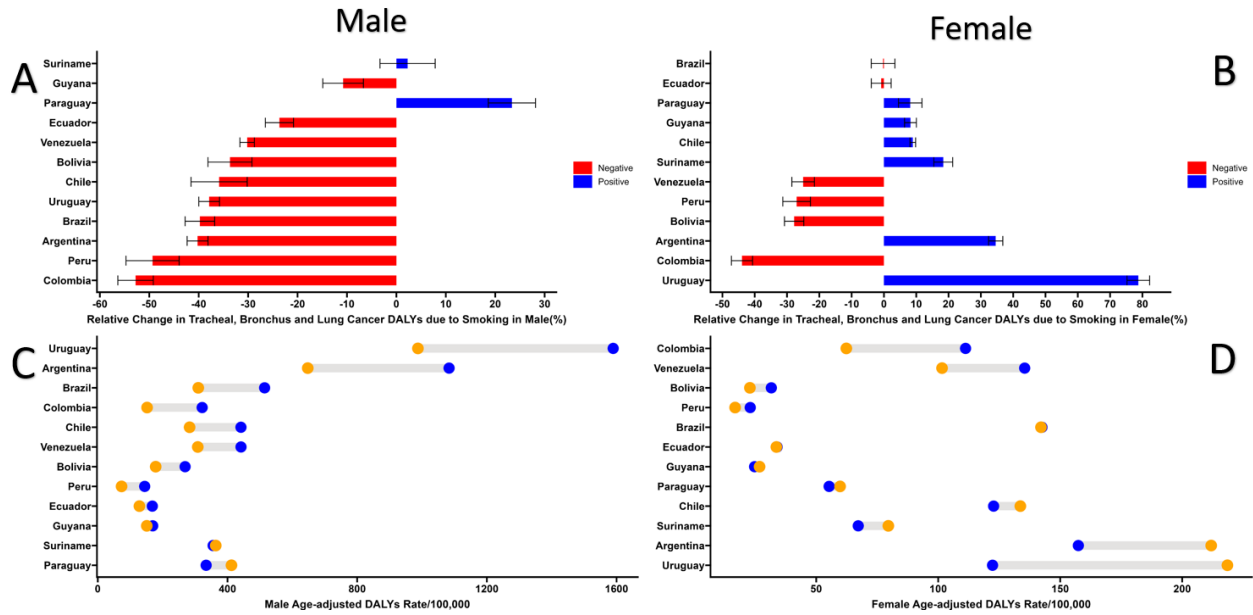
Supplemental Figures



Supplemental Figure 1:

A and B) Relative change in TBL cancer deaths rates (in %) attributable to smoking in the SA comparing the periods from 1990-1994 and 2015-2019 in male and female patients.

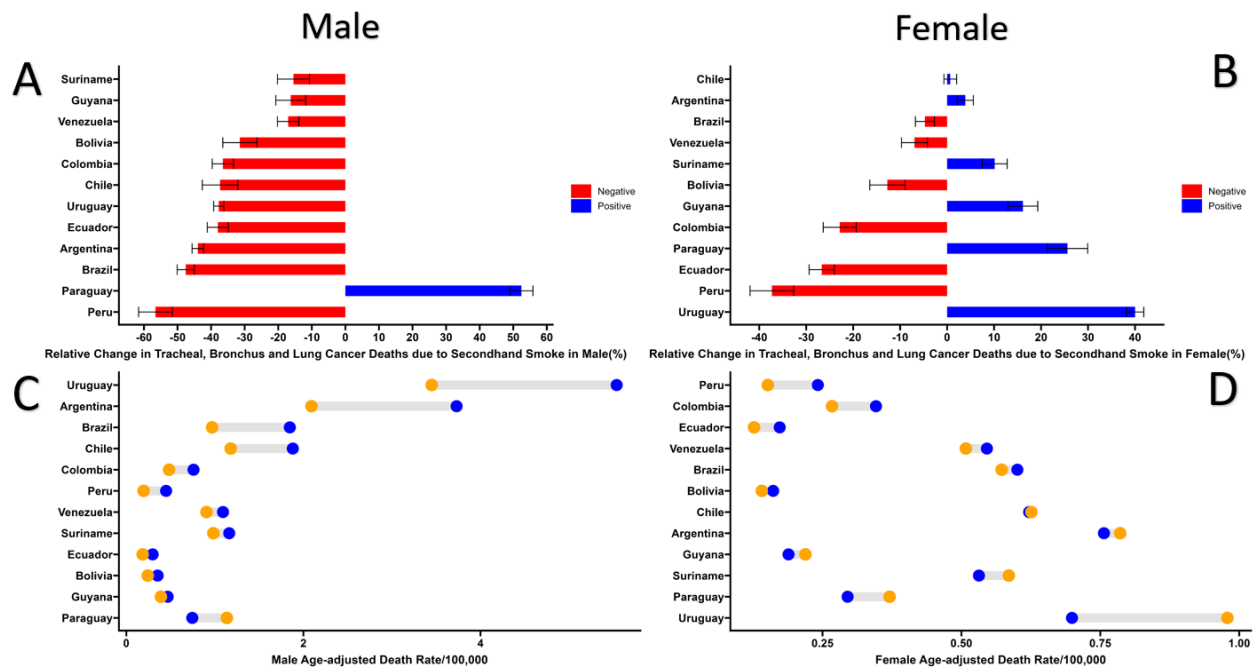
C and D) TBL cancer age-adjusted death rates (per 100,000 individuals) due to smoking in male and female patients. The blue dot represents the mean 5-year period for 1990-1994 and the orange dot represents the 2015-2019 period.



Supplemental Figure 2:

A and B) Relative change in TBL cancer DALYs rates (in %) attributable to smoking in the SA comparing the periods from 1990-1994 and 2015-2019 in male and female patients.

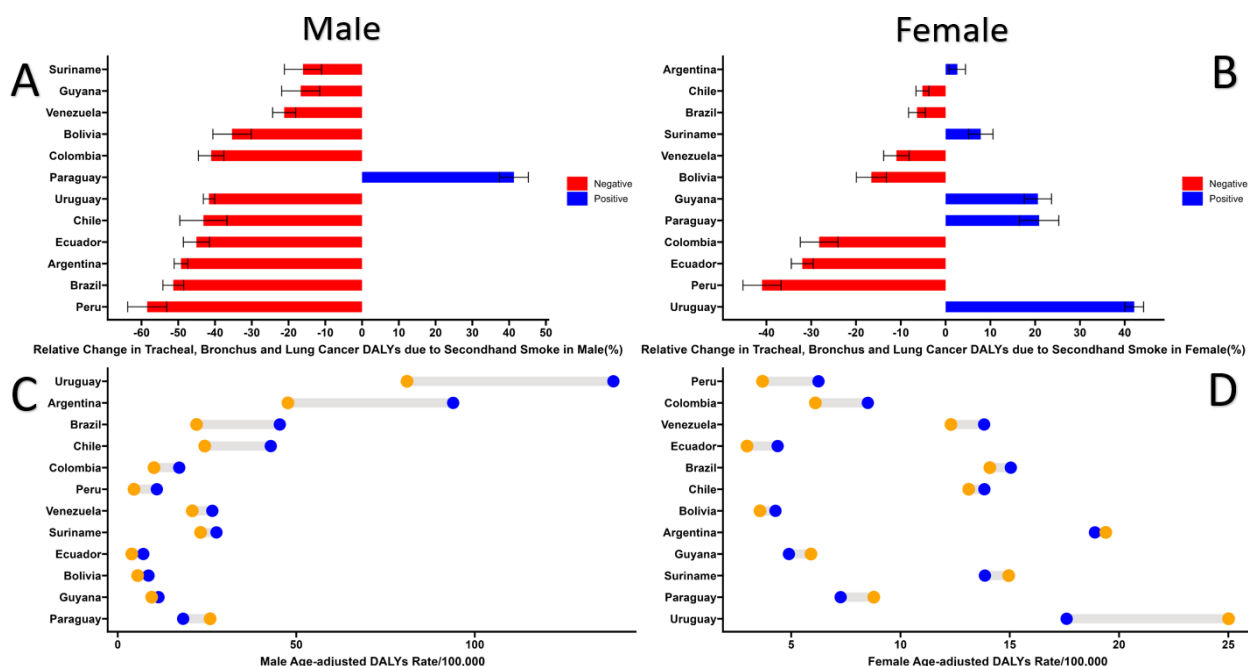
C and D) TBL cancer age adjusted DALYs rates (per 100,000 individuals) due to smoking in male and female patients. The blue dot represents the mean 5-year period for 1990-1994 and the orange dot represents the 2015-2019 period.



Supplemental Figure 3:

A and B) Relative change in TBL cancer deaths rates (in %) attributable to Secondhand Smoke in the SA comparing the periods from 1990-1994 and 2015-2019 in male and female patients.

C and D) TBL cancer age-adjusted death rates (per 100,000 individuals) due to Secondhand Smoke in male and female patients. The blue dot represents the mean 5-year period for 1990-1994 and the orange dot represents the 2015-2019 period.



Supplemental Figure 4:

A and B) Relative change in TBL cancer DALYs rates (in %) attributable to Secondhand Smoke in the SA comparing the periods from 1990-1994 and 2015-2019 in male and female patients.

C and D) TBL cancer age adjusted DALYs rates (per 100,000 individuals) due to Secondhand Smoke in male and female patients. The blue dot represents the mean 5-year period for 1990-1994 and the orange dot represents the 2015-2019 period.