

Supplementary Tables:

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Supplementary Table 1. Disease burden and ranking attributable to tobacco use in Pakistan in 2019.

Diseases Attributable to Tobacco Use	Deaths		DALYs	
	ASMR	Ranking	ASDR	Ranking
Acute lymphoid leukemia	0.03 (0.01 to 0.05)	16	0.81 (0.33 to 1.59)	21
Acute myeloid leukemia	0.14 (0.08 to 0.23)	10	3.32 (1.68 to 5.79)	11
Age-related macular degeneration	NA	NA	1.21 (0.42 to 2.06)	17
Cataract	NA	NA	20.88 (14.14 to 29.97)	7
Chronic lymphoid leukemia	0.1 (0.05 to 0.18)	12	2.23 (1.08 to 3.91)	13
Chronic myeloid leukemia	0.15 (0.08 to 0.24)	9	3.66 (1.72 to 6.4)	9
Cyclist road injuries	0 (0 to 0)	25	0.61 (0.4 to 0.91)	22
Diabetes mellitus type 2	7.77 (4.65 to 11.08)	2	259.96 (163.04 to 357.72)	1
Drug-susceptible tuberculosis	6.27	3	195.84	3

Diseases Attributable to Tobacco Use	Deaths		DALYs	
	ASMR	Ranking	ASDR	Ranking
	(4.04 to 9.28)		(128.66 to 287.65)	
Extensively drug-resistant tuberculosis	0.04 (0.01 to 0.11)	15	1.21 (0.3 to 3.35)	16
Intracerebral hemorrhage	8.56 (6.78 to 10.76)	1	236.15 (188.21 to 298.07)	2
Ischemic stroke	6.04 (4.7 to 8.11)	4	130.81 (103.9 to 174.17)	4
Liver cancer due to alcohol use	0.07 (0.03 to 0.11)	13	1.66 (0.68 to 2.9)	14
Liver cancer due to hepatitis B	0.05 (0.02 to 0.09)	14	1.4 (0.52 to 2.56)	15
Liver cancer due to hepatitis C	0.16 (0.07 to 0.26)	8	3.53 (1.54 to 5.89)	10
Liver cancer due to NASH	0.02 (0.01 to 0.03)	18	0.46 (0.19 to 0.78)	24
Liver cancer due to other causes	0.01 (0 to 0.01)	23	0.18 (0.07 to 0.32)	27
Motor vehicle road injuries	0.01 (0.01 to 0.02)	19	0.87 (0.55 to 1.31)	20
Motorcyclist road injuries	0.01	22	1.01	18

Diseases Attributable to Tobacco Use	Deaths		DALYs	
	ASMR	Ranking	ASDR	Ranking
	(0.01 to 0.02)		(0.66 to 1.52)	
Multidrug-resistant tuberculosis without extensive drug resistance	0.8 (0.2 to 2.24)	6	23.95 (6.13 to 67.39)	6
Non-venomous animal contact	0.01 (0 to 0.01)	24	0.21 (0.12 to 0.34)	26
Other exposure to mechanical forces	0.01 (0.01 to 0.02)	21	0.38 (0.25 to 0.57)	25
Other leukemia	0.13 (0.07 to 0.21)	11	2.69 (1.41 to 4.35)	12
Other road injuries	0 (0 to 0)	26	0.06 (0.03 to 0.09)	28
Pedestrian road injuries	0.02 (0.01 to 0.03)	17	0.92 (0.63 to 1.31)	19
Peptic ulcer disease	0.26 (0.18 to 0.39)	7	6.78 (4.77 to 9.73)	8
Physical violence by other means	0.01 (0.01 to 0.02)	20	0.55 (0.33 to 0.85)	23
Subarachnoid hemorrhage	1.28 (0.71 to 2.08)	5	40.8 (23.92 to 65.85)	5

Supplementary Table 2. Disease burden and ranking attributable to active smoking in Pakistan in 2019.

Diseases Attributable to Active smoking	Deaths		DALYs	
	ASMR	Ranking	ASDR	Ranking
Acute lymphoid leukemia	0.03 (0.01 to 0.05)	16	0.81 (0.33 to 1.59)	21
Acute myeloid leukemia	0.14 (0.08 to 0.23)	10	3.32 (1.68 to 5.79)	11
Age-related macular degeneration	NA	NA	1.21 (0.42 to 2.06)	17
Cataract	NA	NA	20.88 (14.14 to 29.97)	7
Chronic lymphoid leukemia	0.1 (0.05 to 0.18)	12	2.23 (1.08 to 3.91)	13
Chronic myeloid leukemia	0.15 (0.08 to 0.24)	9	3.66 (1.72 to 6.4)	9
Cyclist road injuries	0 (0 to 0)	25	0.61 (0.4 to 0.91)	22
Diabetes mellitus type 2	3.15 (2.25 to 4.27)	4	115.67 (87.82 to 150.48)	3
Drug-susceptible tuberculosis	6.27 (4.04 to 9.28)	2	195.84 (128.66 to 287.65)	1
Extensively drug-resistant tuberculosis	0.04	15	1.21	16

Diseases Attributable to Active smoking	Deaths		DALYs	
	ASMR	Ranking	ASDR	Ranking
	(0.01 to 0.11)		(0.3 to 3.35)	
Intracerebral hemorrhage	6.84 (5.32 to 8.78)	1	189.13 (146.45 to 243.86)	2
Ischemic stroke	4.78 (3.63 to 6.63)	3	106.34 (82.07 to 144.36)	4
Liver cancer due to alcohol use	0.07 (0.03 to 0.11)	13	1.66 (0.68 to 2.9)	14
Liver cancer due to hepatitis B	0.05 (0.02 to 0.09)	14	1.4 (0.52 to 2.56)	15
Liver cancer due to hepatitis C	0.16 (0.07 to 0.26)	8	3.53 (1.54 to 5.89)	10
Liver cancer due to NASH	0.02 (0.01 to 0.03)	18	0.46 (0.19 to 0.78)	24
Liver cancer due to other causes	0.01 (0 to 0.01)	23	0.18 (0.07 to 0.32)	27
Motor vehicle road injuries	0.01 (0.01 to 0.02)	19	0.87 (0.55 to 1.31)	20
Motorcyclist road injuries	0.01 (0.01 to 0.02)	22	1.01 (0.66 to 1.52)	18
Multidrug-resistant tuberculosis without	0.8	6	23.95	6

Diseases Attributable to Active smoking	Deaths		DALYs	
	ASMR	Ranking	ASDR	Ranking
extensive drug resistance	(0.2 to 2.24)		(6.13 to 67.39)	
Non-venomous animal contact	0.01 (0 to 0.01)	24	0.21 (0.12 to 0.34)	26
Other exposure to mechanical forces	0.01 (0.01 to 0.02)	21	0.38 (0.25 to 0.57)	25
Other leukemia	0.13 (0.07 to 0.21)	11	2.69 (1.41 to 4.35)	12
Other road injuries	0 (0 to 0)	26	0.06 (0.03 to 0.09)	28
Pedestrian road injuries	0.02 (0.01 to 0.03)	17	0.92 (0.63 to 1.31)	19
Peptic ulcer disease	0.26 (0.18 to 0.39)	7	6.78 (4.77 to 9.73)	8
Physical violence by other means	0.01 (0.01 to 0.02)	20	0.55 (0.33 to 0.85)	23
Subarachnoid hemorrhage	1 (0.54 to 1.69)	5	31.56 (17.85 to 53.3)	5

Supplementary Table 3. Disease burden and ranking attributable to secondhand smoke in Pakistan in 2019.

Diseases Attributable to Secondhand smoke	Deaths		DALYs	
	ASMR	Ranking	ASDR	Ranking
Diabetes mellitus type 2	4.89 (1.83 to 7.87)	1	154.06 (56.22 to 243.51)	1
Intracerebral hemorrhage	1.95 (1.33 to 2.76)	2	53.94 (36.12 to 75.3)	2
Ischemic stroke	1.39 (0.94 to 1.99)	3	27.67 (18.9 to 39.33)	3
Subarachnoid hemorrhage	0.32 (0.17 to 0.51)	4	10.49 (5.69 to 16.39)	4

Supplementary Table 4. Average annual percentage change (AAPC) in ASMR and ASDR for tobacco-related (tobacco use, active smoking and second-hand smoke) attributable ischemic stroke in Pakistan, 1990-2019.

Risk factor	Measure	AAPC		
		Both	Male	Female
Tobacco use				
	Death	-0.81 (-0.88 to -0.74)*	-0.78 (-0.84 to -0.72)*	-0.37 (-0.43 to -0.31)*
	DALY	-0.68 (-0.75 to -0.61)*	-0.6 (-0.66 to -0.54)*	-0.48 (-0.55 to -0.41)*
Active smoking				
	Death	-1.01 (-1.14 to -0.89)*	-0.85 (-0.91 to -0.79)*	-0.64 (-0.78 to -0.5)*
	DALY	-0.84 (-0.91 to -0.78)*	-0.67 (-0.74 to -0.61)*	-0.72 (-0.83 to -0.6)*
Secondhand smoke				
	Death	-0.10 (-0.15 to -0.05)*	-0.23 (-0.3 to -0.16)*	-0.14 (-0.23 to -0.05)*
	DALY	-0.06	0.00	-0.21

(-0.1 to -0.02)* (-0.06 to 0.07) (-0.3 to -0.12)*

Supplementary Table 5. Average annual percentage change (AAPC) in ASMR and ASDR for tobacco-related (tobacco use, active smoking, and second-hand smoke) attributable ischemic stroke across regions of Pakistan from 1990 to 2019.

Risk factor	Location	Measure	AAPC		
			Both	Male	Female
Tobacco use					
	Azad Jammu & Kashmir	Death	-0.84 (-0.91 to -0.77)*	-0.76 (-0.86 to -0.66)*	-0.33 (-0.42 to -0.24)*
		DALY	-0.76 (-0.84 to -0.68)*	-0.62 (-0.72 to -0.53)*	-0.49 (-0.6 to -0.38)*
	Balochistan	Death	-0.43 (-0.57 to -0.29)*	-0.7 (-0.83 to -0.56)*	0.09 (-0.07 to 0.25)
		DALY	-0.38 (-0.52 to -0.24)*	-0.53 (-0.66 to -0.4)*	-0.04 (-0.21 to 0.13)
	Gilgit-Baltistan	Death	-0.37 (-0.66 to -0.08)*	-0.65 (-0.86 to -0.43)*	0.27 (0.02 to 0.51)*
		DALY	-0.29 (-0.54 to -0.04)*	-0.5 (-0.71 to -0.28)*	0.13 (-0.08 to 0.35)
	Islamabad Capital Territory	Death	-1.15 (-1.26 to -1.05)*	-1.14 (-1.29 to -0.99)*	-0.95 (-1.15 to -0.76)*
		DALY	-1.03 (-1.16 to -0.91)*	-0.95 (-1.09 to -0.81)*	-1.03 (-1.16 to -0.9)*

Risk factor	Location	Measure	AAPC		
			Both	Male	Female
	Khyber Pakhtunkhwa	Death	-0.3 (-0.38 to -0.22)*	-0.33 (-0.42 to -0.24)*	0.13 (0.04 to 0.22)*
		DALY	-0.22 (-0.31 to -0.13)*	-0.18 (-0.27 to -0.09)*	-0.02 (-0.1 to 0.07)
	Punjab	Death	-0.97 (-1.07 to -0.87)*	-0.83 (-0.93 to -0.74)*	-0.65 (-0.75 to -0.55)*
		DALY	-0.82 (-0.91 to -0.73)*	-0.67 (-0.75 to -0.58)*	-0.71 (-0.8 to -0.62)*
Sindh	Death	-0.71 (-0.79 to -0.62)*	-0.81 (-0.89 to -0.72)*	-0.13 (-0.21 to -0.05)*	
	DALY	-0.59 (-0.67 to -0.5)*	-0.63 (-0.73 to -0.52)*	-0.22 (-0.34 to -0.11)*	
Active smoking					
	Azad Jammu & Kashmir	Death	-1.11 (-1.22 to -1.01)*	-0.86 (-0.96 to -0.77)*	-0.71 (-0.85 to -0.56)*
		DALY	-1 (-1.08 to -0.91)*	-0.71 (-0.81 to -0.62)*	-0.89 (-1.02 to -0.76)*
	Balochistan	Death	-0.61 (-0.75 to -0.46)*	-0.8 (-0.94 to -0.67)*	-0.27 (-0.47 to -0.08)*
		DALY	-0.56	-0.63	-0.46

Risk factor	Location	Measure	AAPC		
			Both	Male	Female
			(-0.7 to -0.42)*	(-0.75 to -0.5)*	(-0.67 to -0.26)*
	Gilgit-Baltistan	Death	-0.63 (-0.88 to -0.38)*	-0.76 (-0.97 to -0.54)*	-0.13 (-0.36 to 0.1)
		DALY	-0.51 (-0.75 to -0.27)*	-0.6 (-0.81 to -0.39)*	-0.29 (-0.51 to -0.08)*
	Islamabad Capital Territory	Death	-1.42 (-1.55 to -1.28)*	-1.24 (-1.38 to -1.09)*	-1.4 (-1.69 to -1.12)*
		DALY	-1.25 (-1.36 to -1.13)*	-1.05 (-1.19 to -0.92)*	-1.47 (-1.76 to -1.18)*
	Khyber Pakhtunkhwa	Death	-0.6 (-0.68 to -0.53)*	-0.42 (-0.52 to -0.33)*	-0.2 (-0.39 to -0.01)*
		DALY	-0.44 (-0.52 to -0.36)*	-0.27 (-0.36 to -0.18)*	-0.39 (-0.59 to -0.19)*
	Punjab	Death	-1.17 (-1.26 to -1.09)*	-0.92 (-1.01 to -0.82)*	-0.93 (-1.06 to -0.81)*
		DALY	-0.99 (-1.06 to -0.92)*	-0.74 (-0.83 to -0.65)*	-0.98 (-1.06 to -0.9)*
	Sindh	Death	-0.84 (-0.96 to -0.72)*	-0.87 (-0.97 to -0.77)*	-0.24 (-0.39 to -0.09)*
		DALY	-0.7	-0.69	-0.34

Risk factor	Location	Measure	AAPC		
			Both	Male	Female
			(-0.83 to -0.57)*	(-0.79 to -0.58)*	(-0.48 to -0.21)*
Secondhand smoke					
	Azad Jammu & Kashmir	Death	0.15 (0.02 to 0.27)*	-0.06 (-0.18 to 0.06)	0.04 (-0.05 to 0.13)
		DALY	0.12 (-0.01 to 0.25)	0.12 (0.02 to 0.21)*	-0.11 (-0.2 to -0.02)*
	Balochistan	Death	0.23 (0.15 to 0.31)*	0.06 (-0.08 to 0.21)	0.39 (0.29 to 0.5)*
		DALY	0.33 (0.25 to 0.41)*	0.29 (0.12 to 0.46)*	0.37 (0.24 to 0.49)*
	Gilgit-Baltistan	Death	0.35 (0.02 to 0.67)*	0.14 (-0.08 to 0.36)	0.5 (0.19 to 0.81)*
		DALY	0.35 (0.16 to 0.55)*	0.34 (0.17 to 0.51)*	0.38 (0.12 to 0.64)*
	Islamabad Capital Territory	Death	-0.35 (-0.43 to -0.26)*	-0.37 (-0.48 to -0.26)*	-0.55 (-0.75 to -0.35)*
		DALY	-0.28 (-0.37 to -0.18)*	-0.13 (-0.25 to -0.01)*	-0.59 (-0.82 to -0.36)*
	Khyber Pakhtunkhwa	Death	0.6 (0.5 to 0.7)*	0.39 (0.29 to 0.49)*	0.44 (0.35 to 0.53)*

Risk factor	Location	Measure	AAPC		
			Both	Male	Female
		DALY	0.53 (0.46 to 0.61)*	0.55 (0.49 to 0.61)*	0.33 (0.25 to 0.41)*
	Punjab	Death	-0.27 (-0.32 to -0.22)*	-0.31 (-0.38 to -0.25)*	-0.4 (-0.46 to -0.34)*
		DALY	-0.21 (-0.25 to -0.17)*	-0.08 (-0.15 to 0)*	-0.42 (-0.47 to -0.37)*
	Sindh	Death	-0.14 (-0.19 to -0.09)*	-0.36 (-0.44 to -0.27)*	0 (-0.11 to 0.12)
		DALY	-0.09 (-0.13 to -0.04)*	-0.15 (-0.23 to -0.07)*	-0.07 (-0.19 to 0.04)

Supplementary Figures:

Supplementary Figure 1. Trends in disease burden due to active and secondhand smoking in Pakistan and different SDI regions globally.

Supplementary Figure 2. Trends in ischemic stroke deaths attributable to active smoking and secondhand smoke.

Supplementary Figure 3. Trends in ischemic stroke DALYs attributable to active smoking and secondhand smoke.

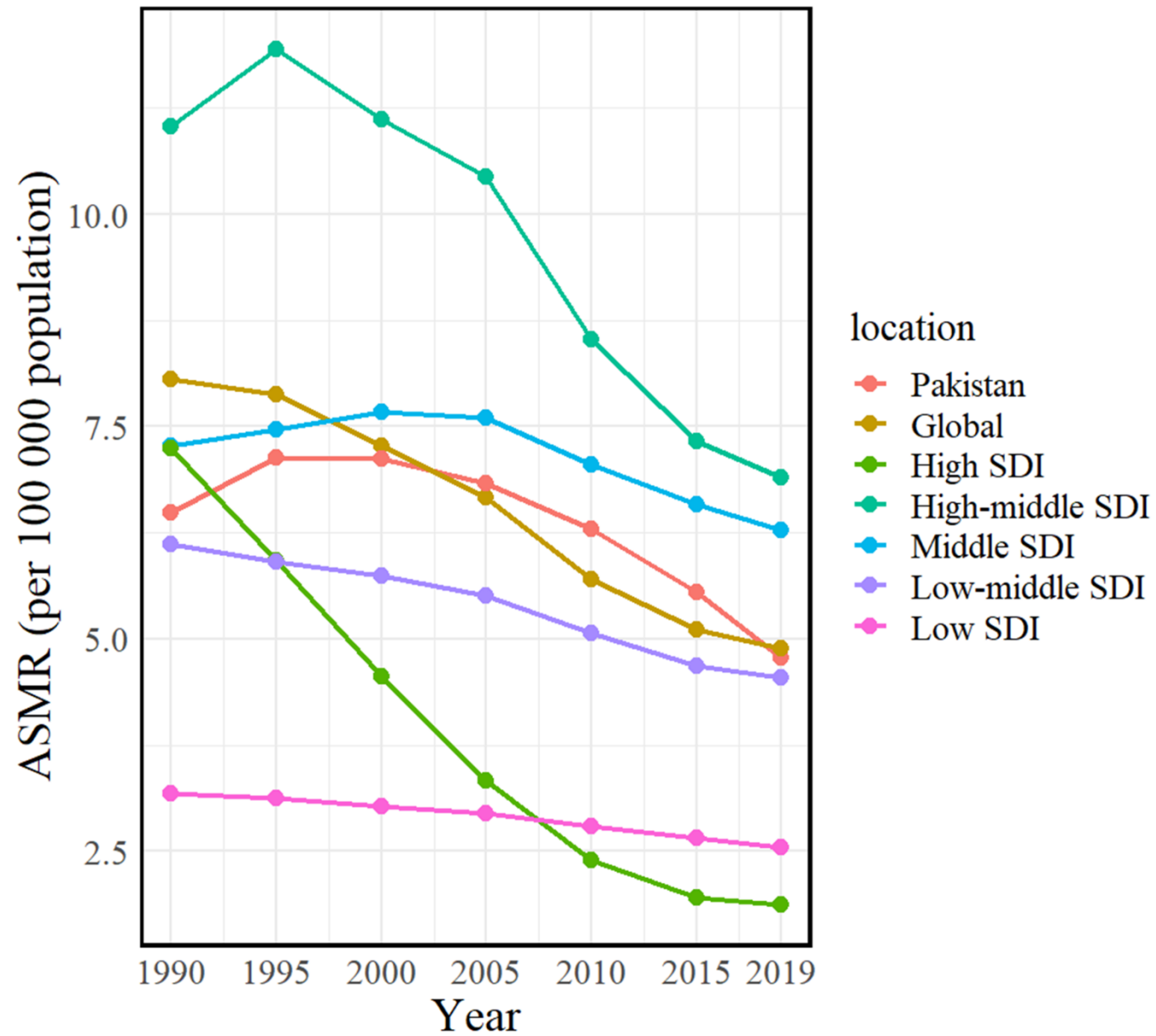
Supplementary Figure 4. APC of ASMR in ischemic stroke due to tobacco use, active smoking and second-hand smoke by gender in Pakistan from 1990 to 2019.

Supplementary Figure 5. APC of ASDR in ischemic stroke due to tobacco use, active smoking and second-hand smoke by gender in Pakistan from 1990 to 2019.

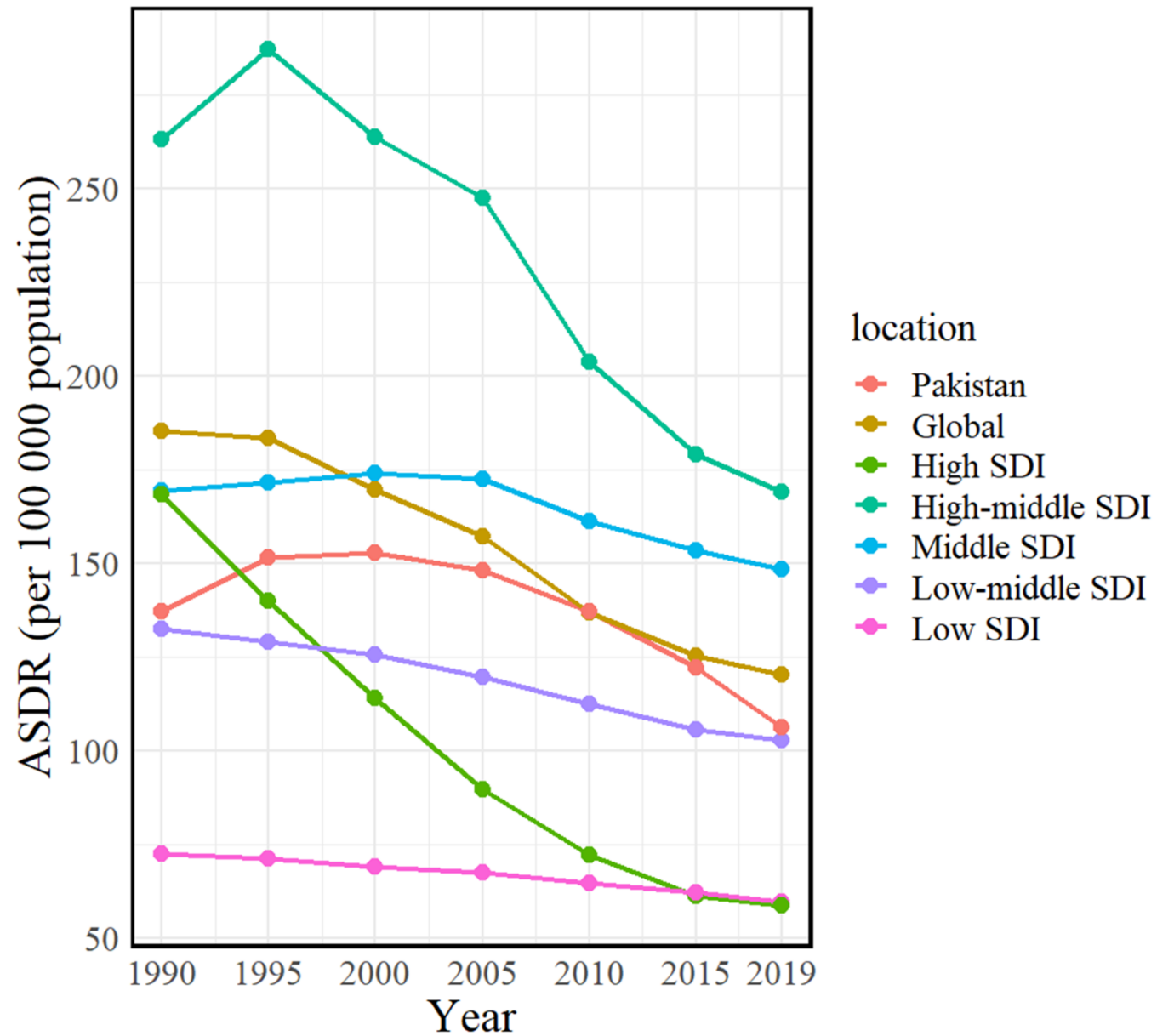
Supplementary Figure 6. APC of ASMR in ischemic stroke due to tobacco use, active smoking and second-hand smoke by gender in various regions of Pakistan from 1990 to 2019.

Supplementary Figure 7. APC of ASDR in ischemic stroke due to tobacco use, active smoking and second-hand smoke by gender in various regions of Pakistan from 1990 to 2019.

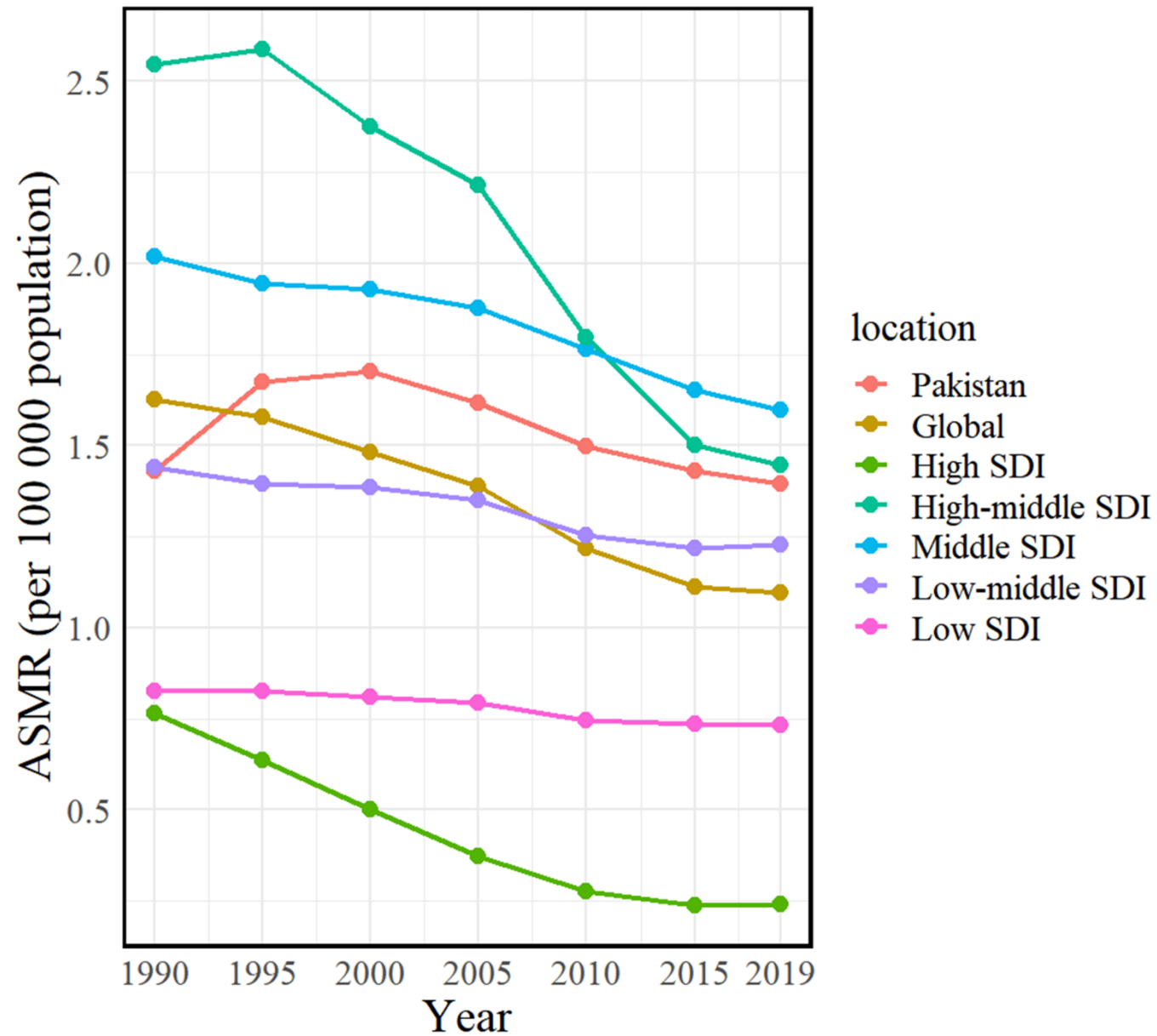
A Trends in deaths attributable to active smoking in Pakistan and different SDI regions globally



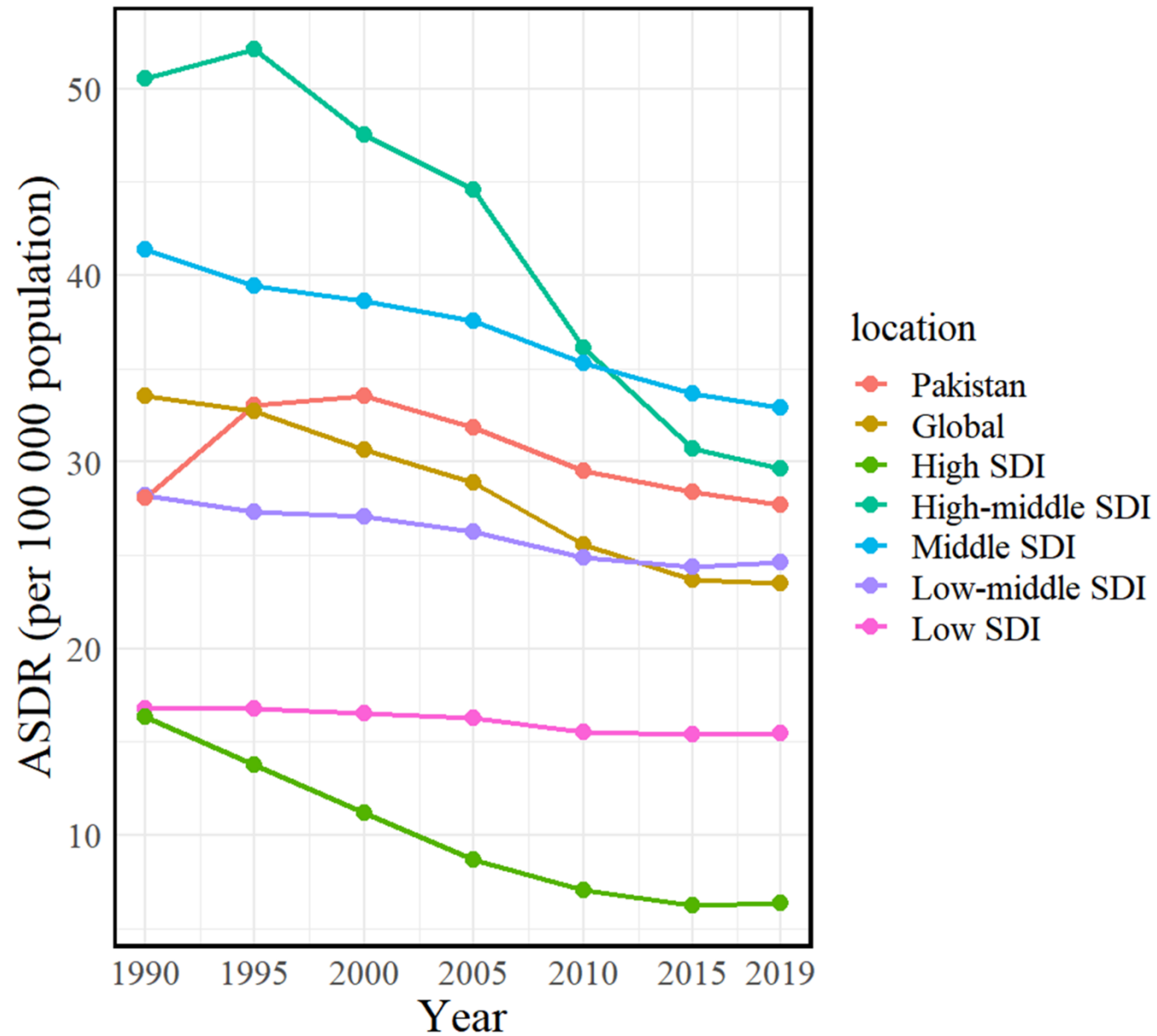
B Trends in DALY attributable to active smoking in Pakistan and different SDI regions globally



C Trends in deaths attributable to secondhand smoke in Pakistan and different SDI regions globally



D Trends in DALY attributable to secondhand smoke in Pakistan and different SDI regions globally



Supplementary Figure 1. Trends in disease burden due to active and secondhand smoking in Pakistan and different SDI regions globally.

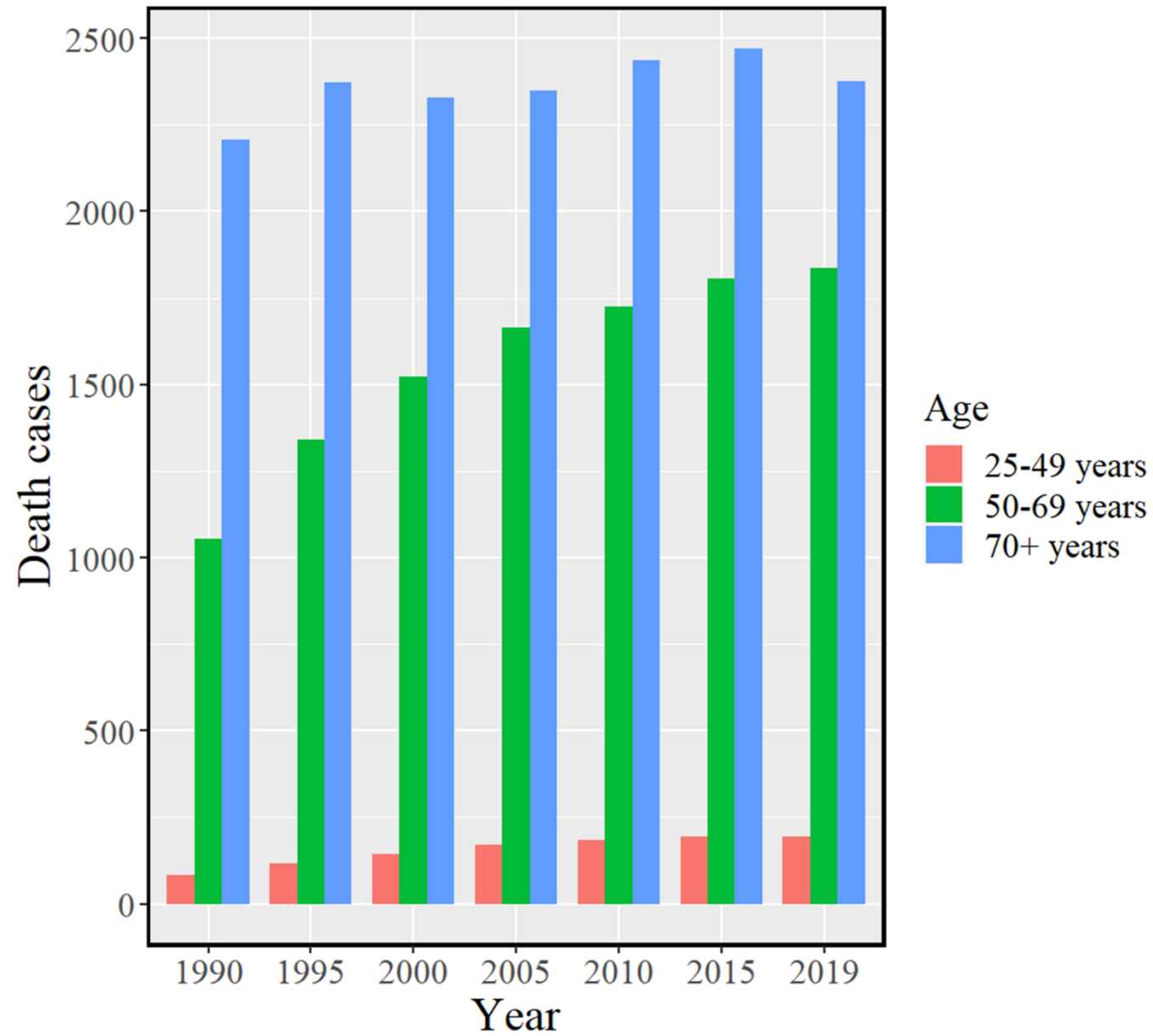
A. Trends in deaths attributable to active smoking in Pakistan and different SDI regions globally.

B. Trends in DALY attributable to active smoking in Pakistan and different SDI regions globally.

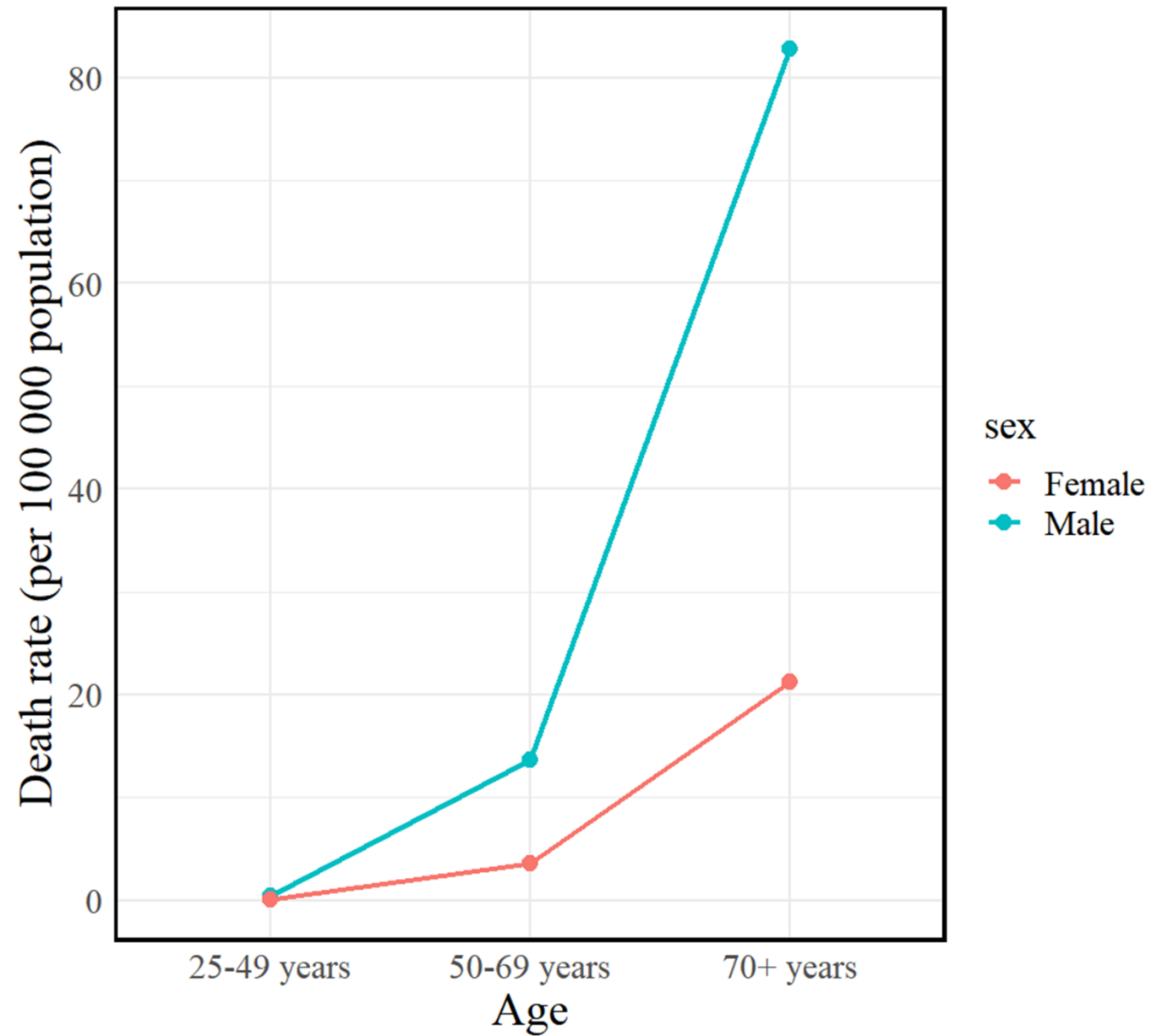
C. Trends in deaths attributable to secondhand smoke in Pakistan and different SDI regions globally.

D. Trends in DALY attributable to secondhand smoke in Pakistan and different SDI regions globally.

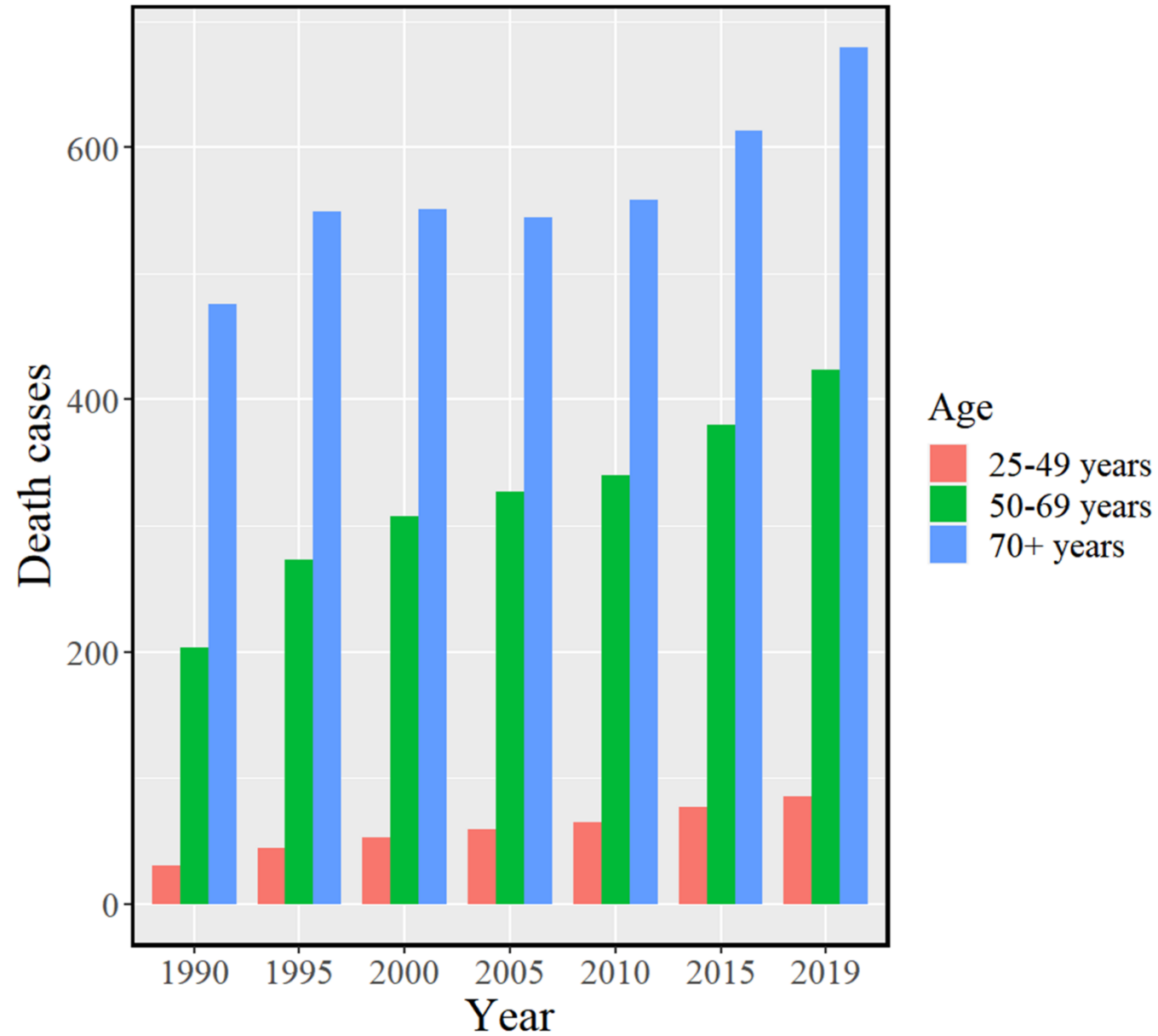
A Ischemic stroke death cases attributable to active smoking in Pakistan



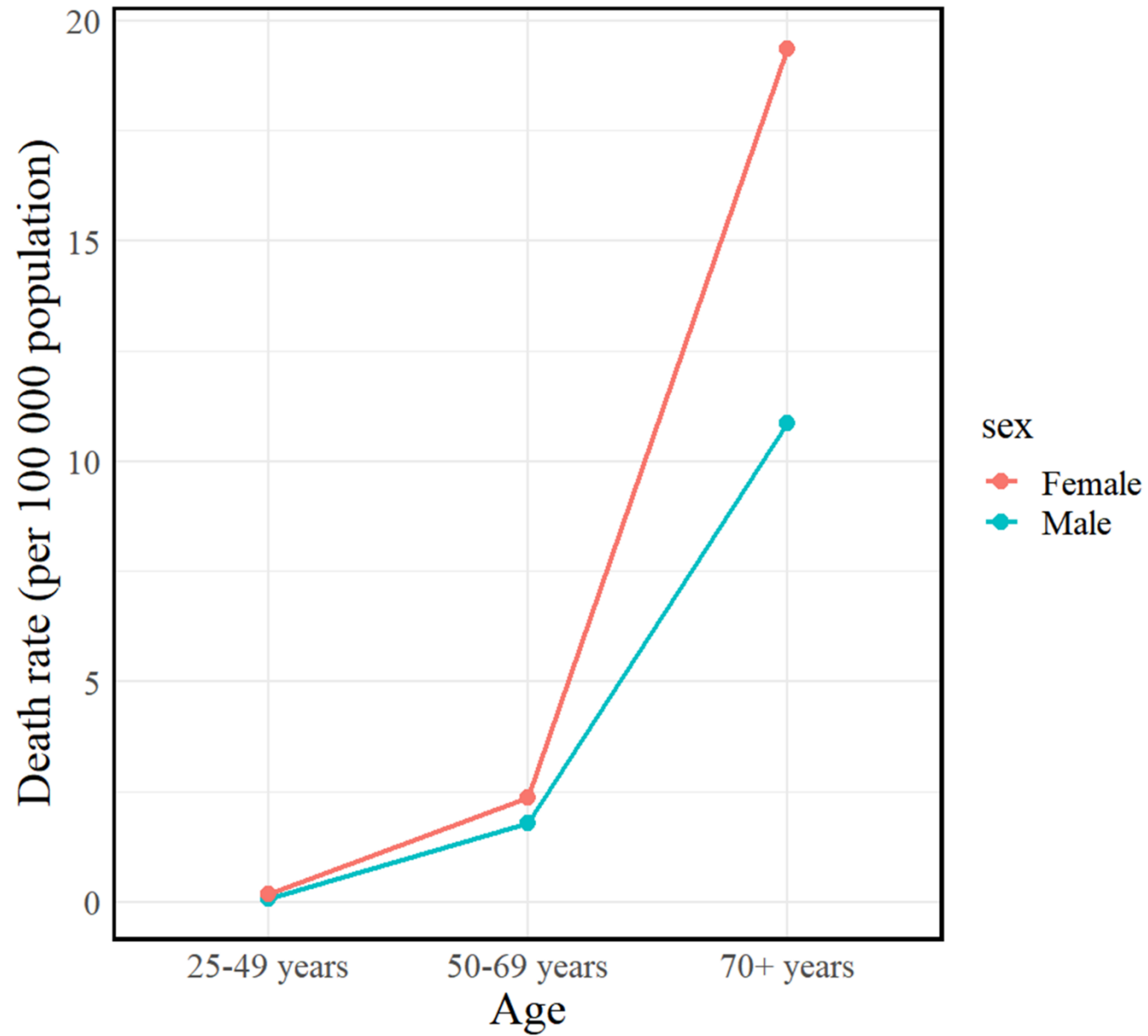
B Ischemic stroke death rates attributable to active smoking by age in Pakistan



C Ischemic stroke death cases attributable to secondhand smoke in Pakistan



D Ischemic stroke death rates attributable to secondhand smoke by age in Pakistan



Supplementary Figure 2. Trends in ischemic stroke deaths attributable to active smoking and secondhand smoke.

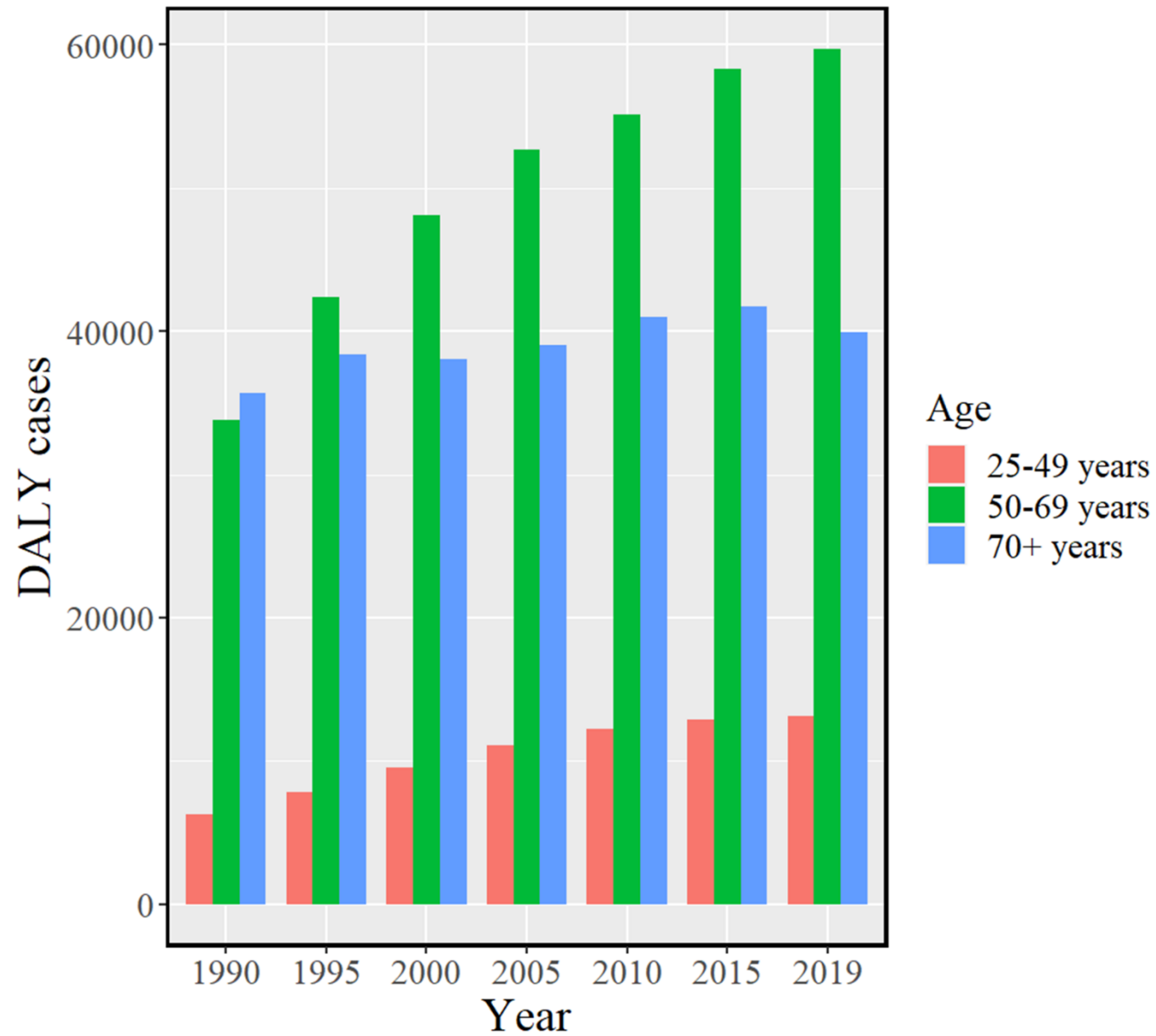
A. Ischemic stroke death cases attributable to active smoking in Pakistan.

B. Ischemic stroke death rates attributable to active smoking by age in Pakistan.

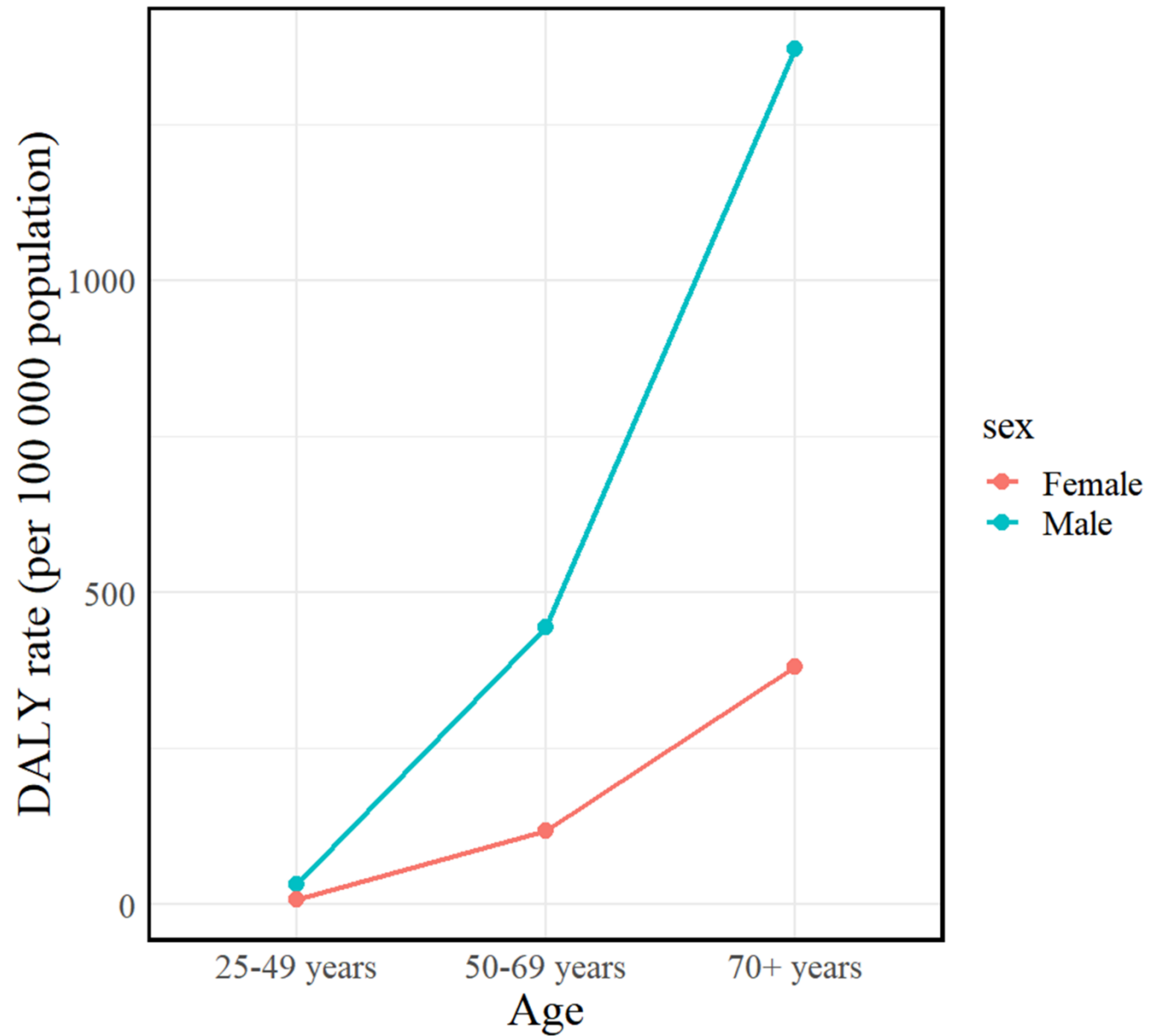
C. Ischemic stroke death cases attributable to secondhand smoke in Pakistan.

D. Ischemic stroke death rates attributable to secondhand smoke by age in Pakistan.

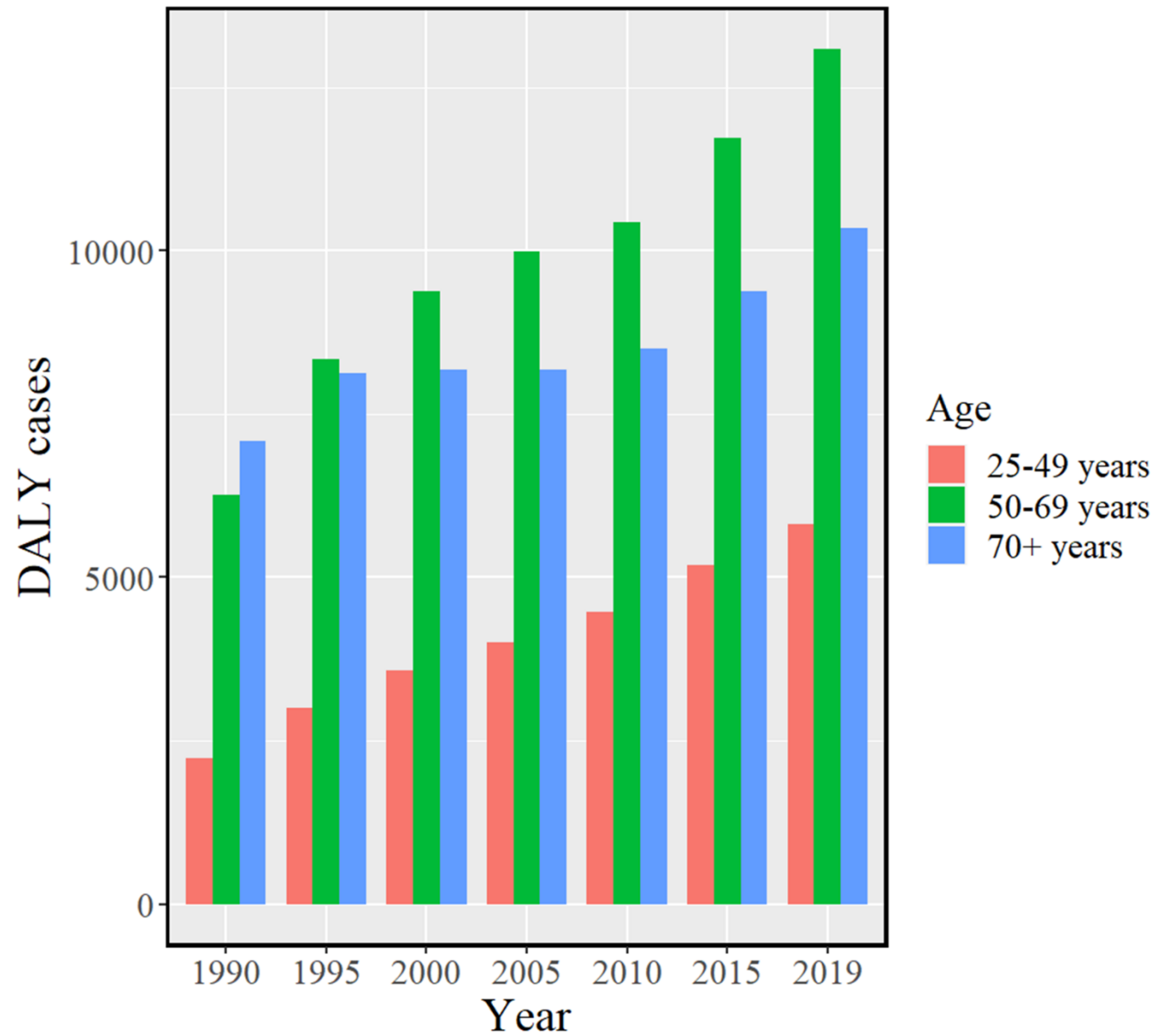
A Ischemic stroke DALY cases attributable to active smoking in Pakistan



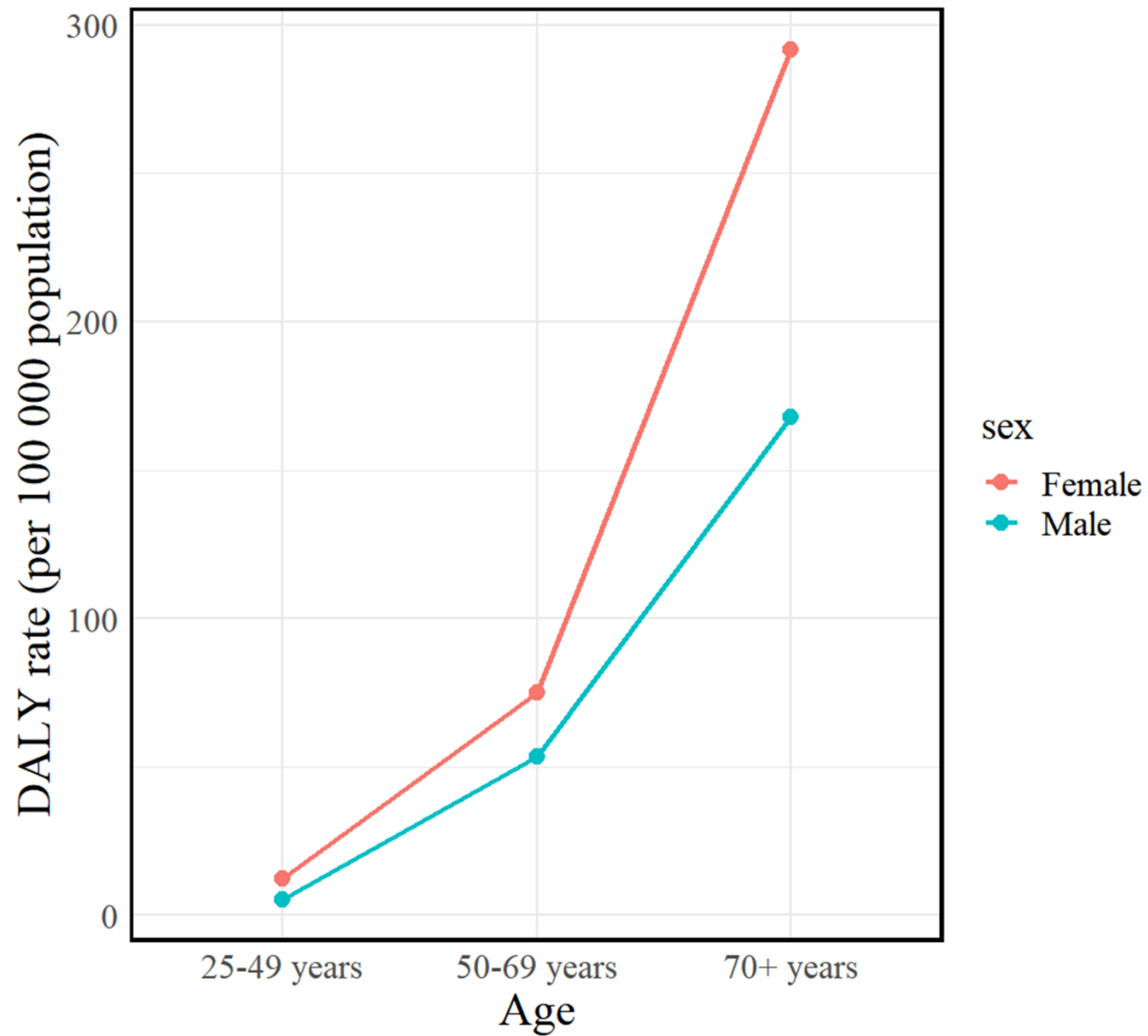
B Ischemic stroke DALY rates attributable to active smoking by age in Pakistan



C Ischemic stroke DALY cases attributable to secondhand smoke in Pakistan



D Ischemic stroke DALY rates attributable to secondhand smoke by age in Pakistan



Supplementary Figure 3. Trends in ischemic stroke DALYs attributable to active smoking and secondhand smoke.

A. Ischemic stroke DALY cases attributable to active smoking in Pakistan.

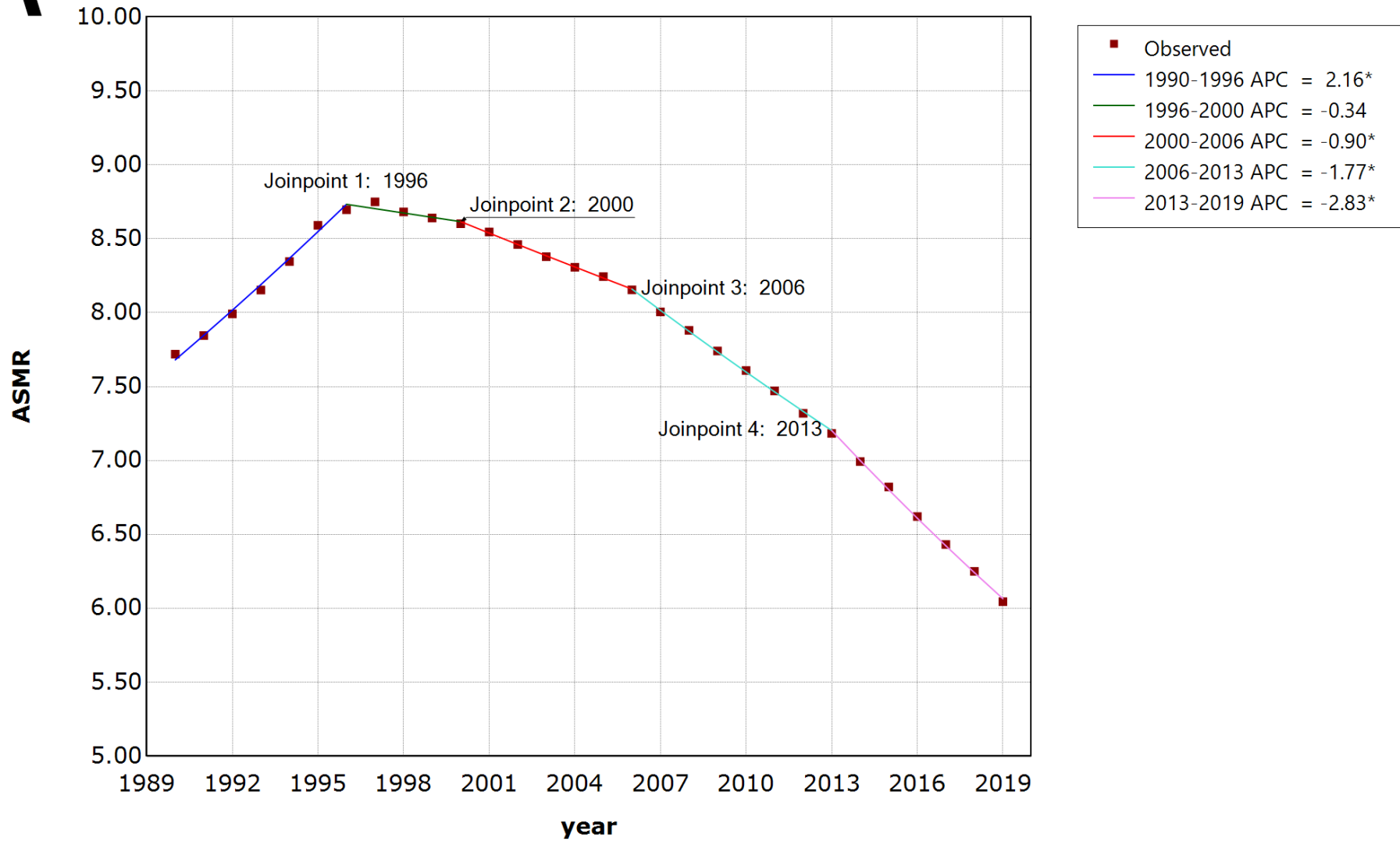
B. Ischemic stroke DALY rates attributable to active smoking by age in Pakistan.

C. Ischemic stroke DALY cases attributable to secondhand smoke in Pakistan.

D. Ischemic stroke DALY rates attributable to secondhand smoke by age in Pakistan.

A

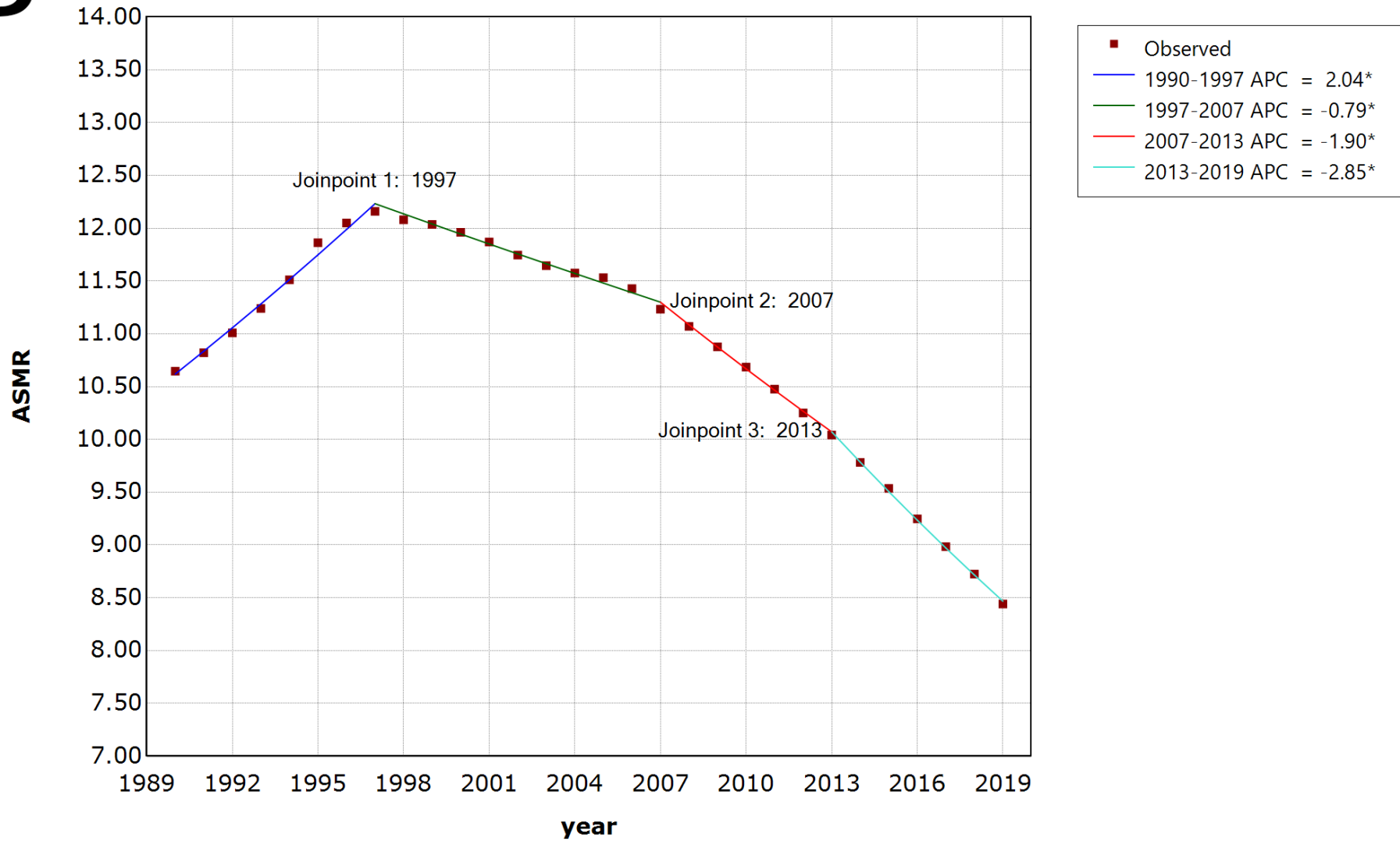
Tobacco / Both: 4 Joinpoints



* Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level
Final Selected Model: 4 Joinpoints.

B

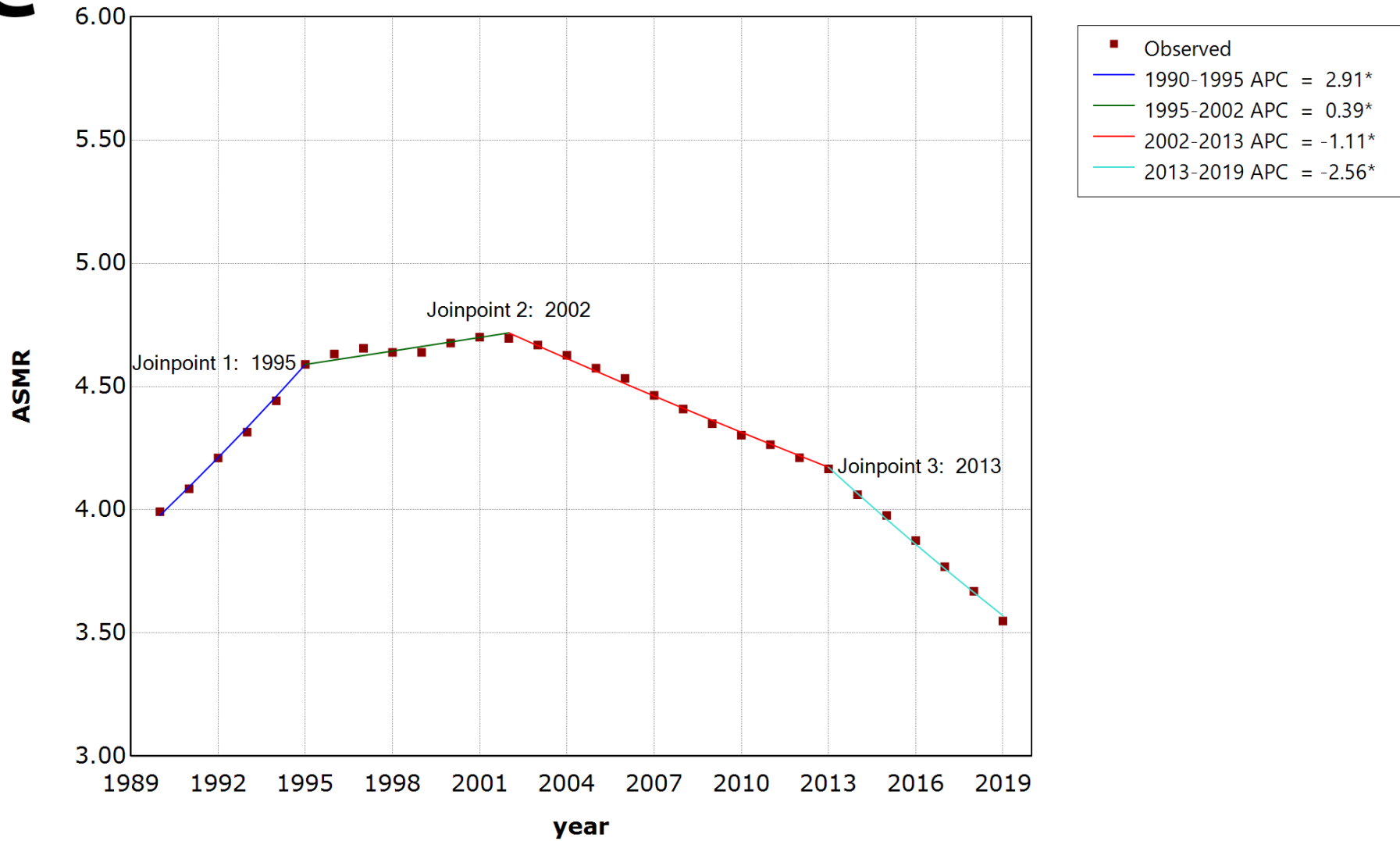
Tobacco / Male: 3 Joinpoints



* Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level
Final Selected Model: 3 Joinpoints.

C

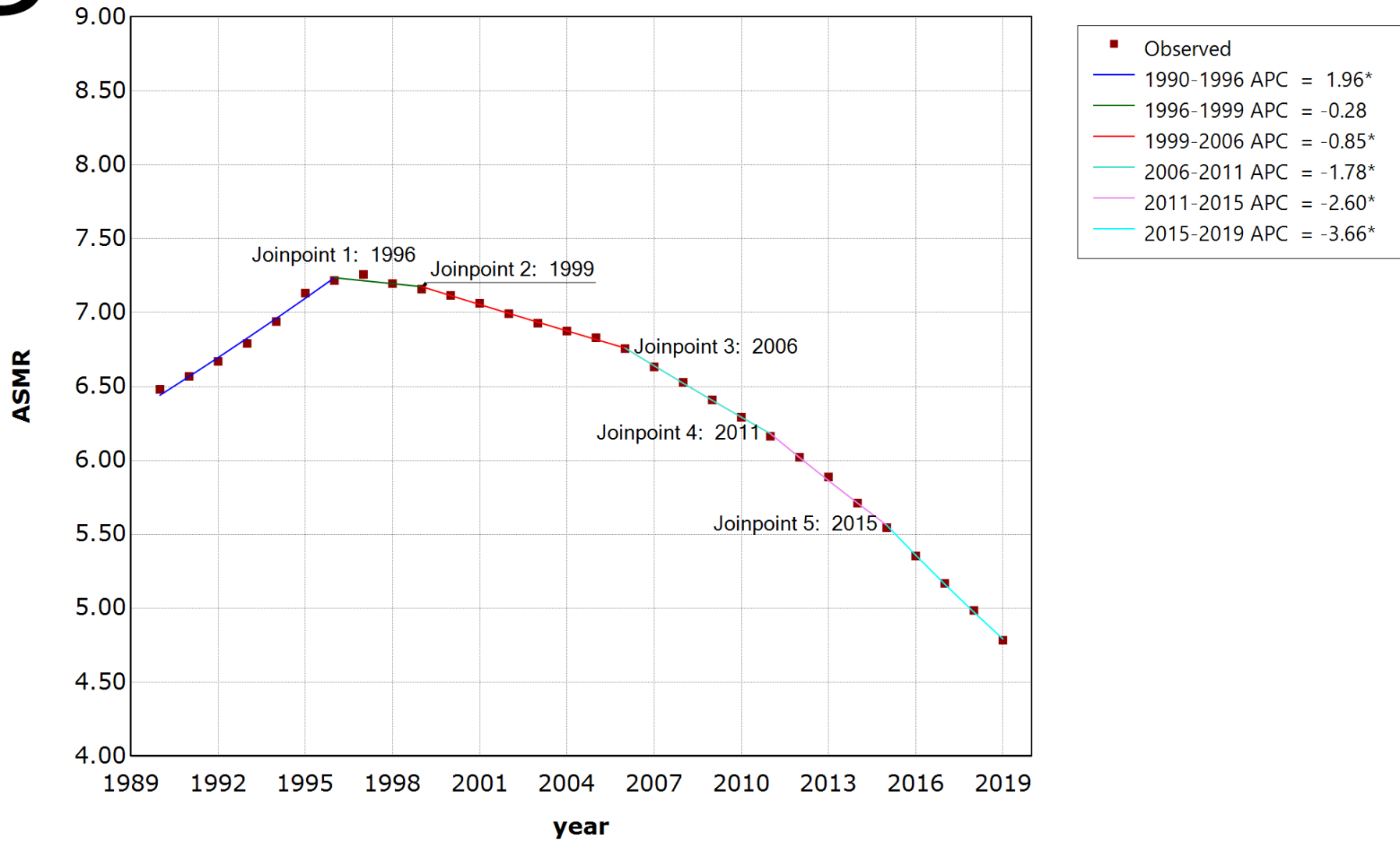
Tobacco / Female: 3 Joinpoints



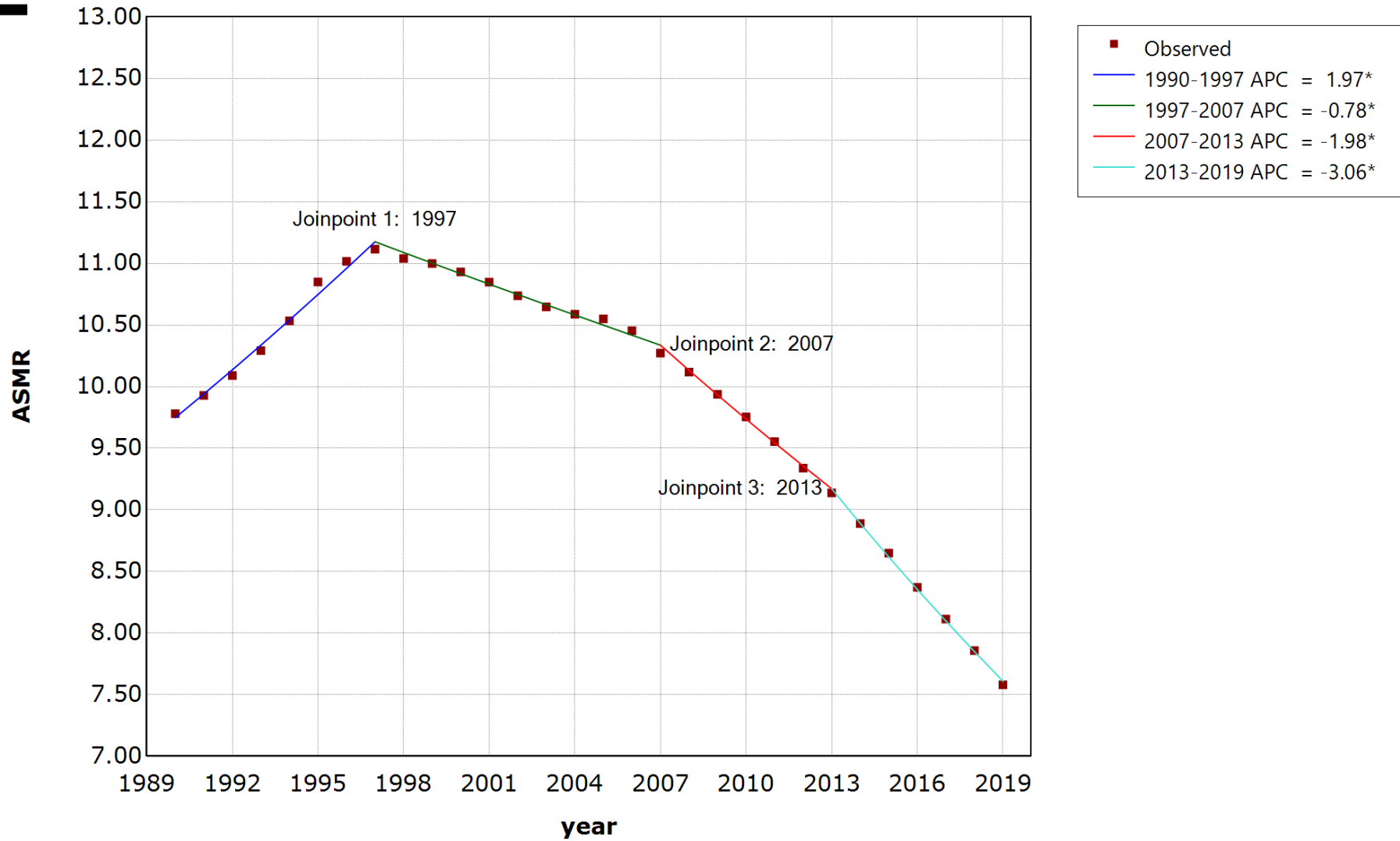
* Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level
Final Selected Model: 3 Joinpoints.

D

Active smoking / Both: 5 Joinpoints



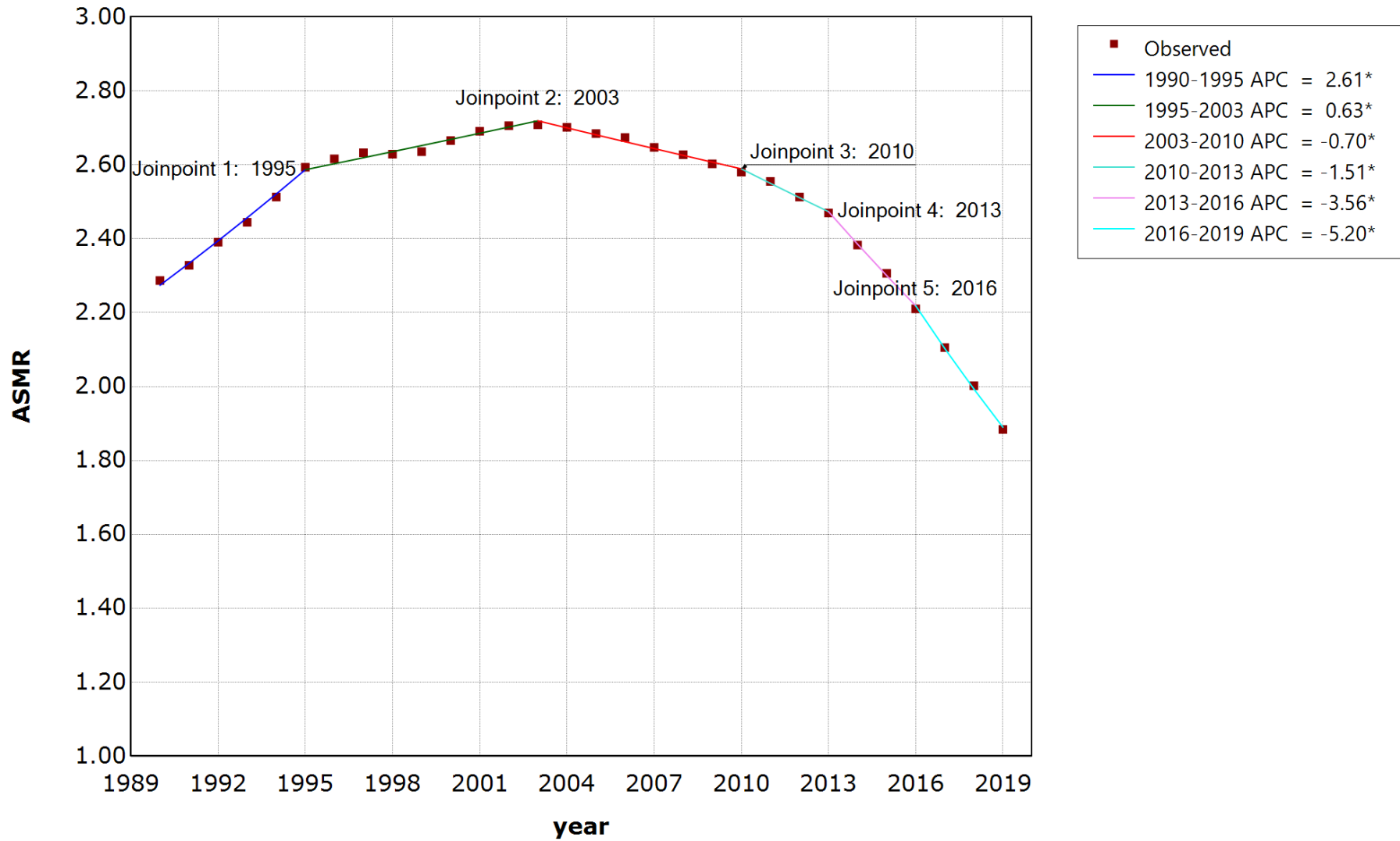
* Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level
Final Selected Model: 5 Joinpoints.

E**Active smoking / Male: 3 Joinpoints**

* Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level
Final Selected Model: 3 Joinpoints.

F

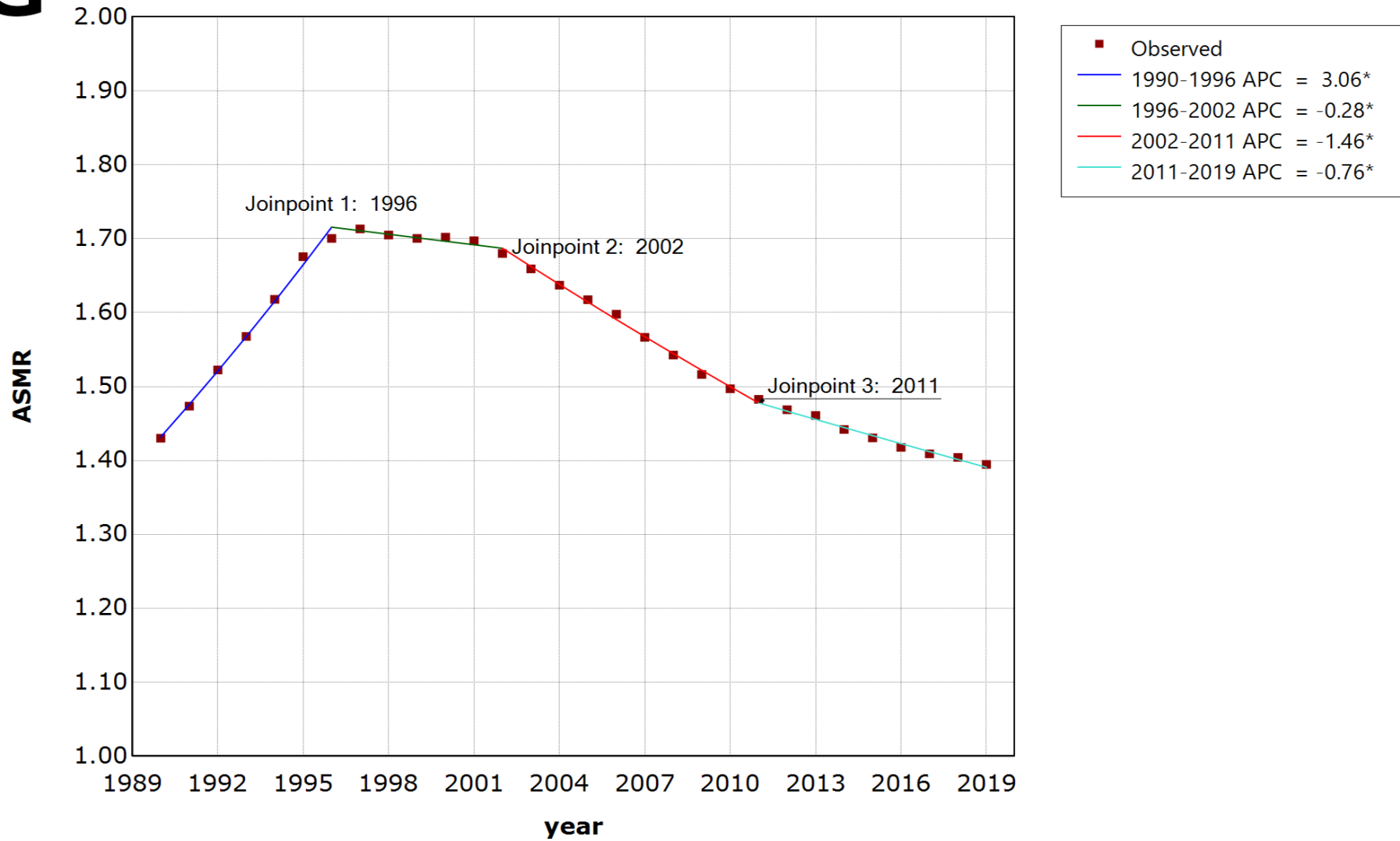
Active smoking / Female: 5 Joinpoints



* Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level
Final Selected Model: 5 Joinpoints.

G

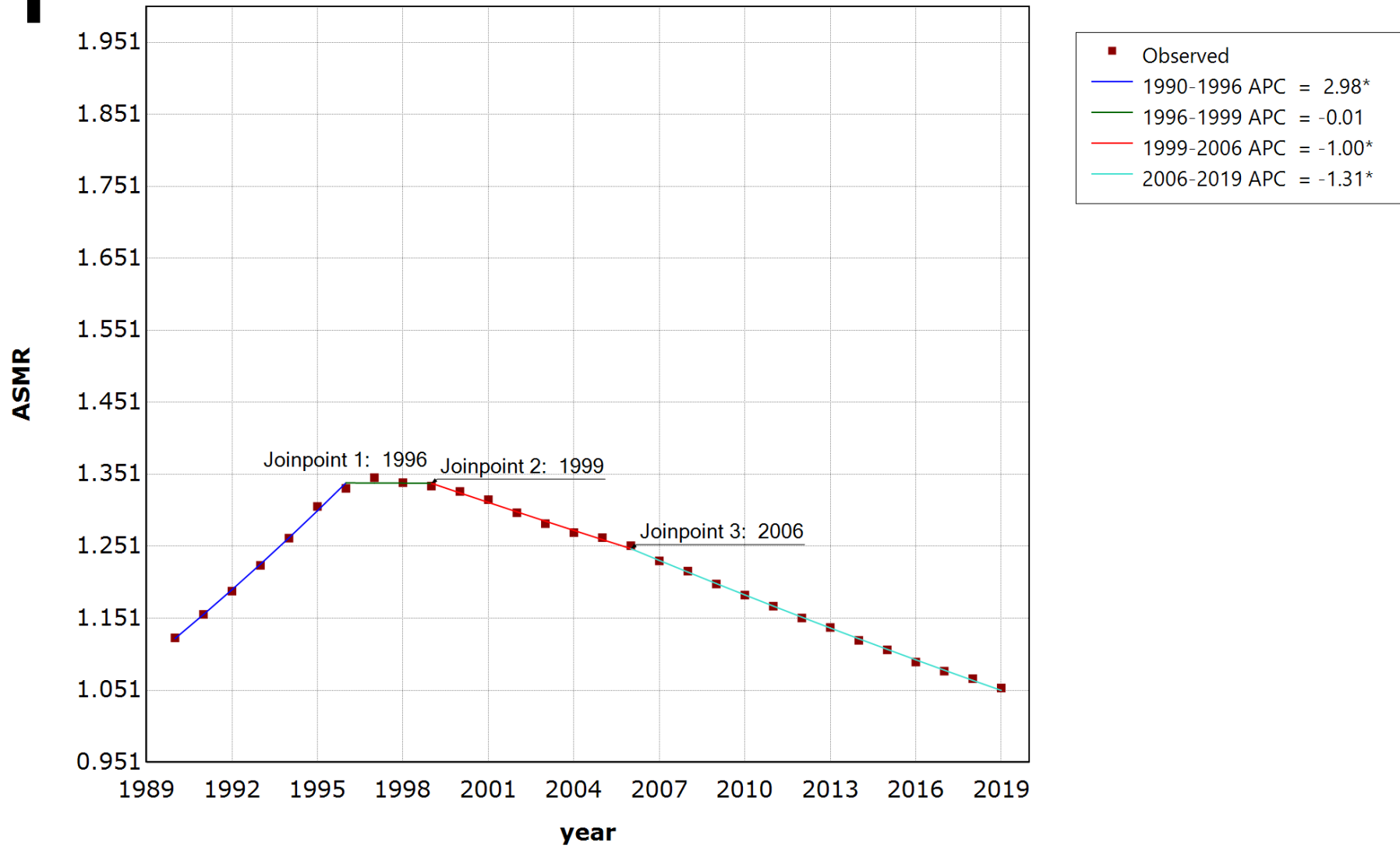
Secondhand smoke / Both: 3 Joinpoints



* Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level
Final Selected Model: 3 Joinpoints.

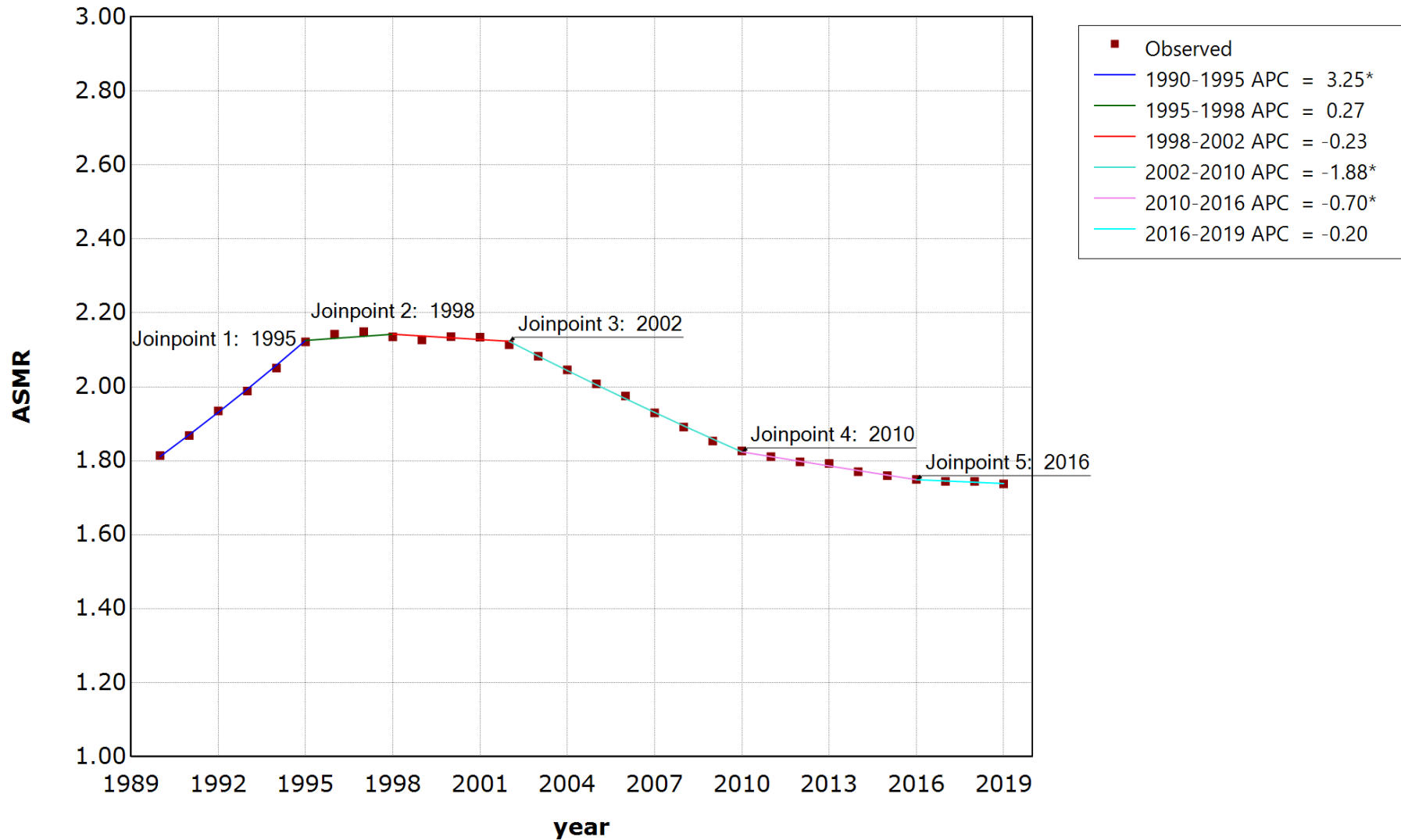
H

Secondhand smoke / Male: 3 Joinpoints



* Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level
Final Selected Model: 3 Joinpoints.

Secondhand smoke / Female: 5 Joinpoints



* Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level
Final Selected Model: 5 Joinpoints.

Supplementary Figure 4. APC of ASMR in ischemic stroke due to tobacco use, active smoking and second-hand smoke by gender in Pakistan from 1990 to 2019.

A. APC of ASMR in ischemic stroke due to tobacco use in Pakistan from 1990 to 2019.

B. APC of ASMR in ischemic stroke due to tobacco use among men in Pakistan from 1990 to 2019.

C. APC of ASMR in ischemic stroke due to tobacco use among women in Pakistan from 1990 to 2019.

D. APC of ASMR in ischemic stroke due to active smoking in Pakistan from 1990 to 2019.

E. APC of ASMR in ischemic stroke due to active smoking among men in Pakistan from 1990 to 2019.

F. APC of ASMR in ischemic stroke due to active smoking among women in Pakistan from 1990 to 2019.

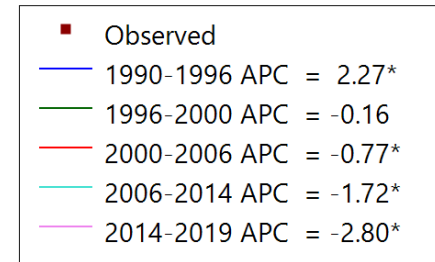
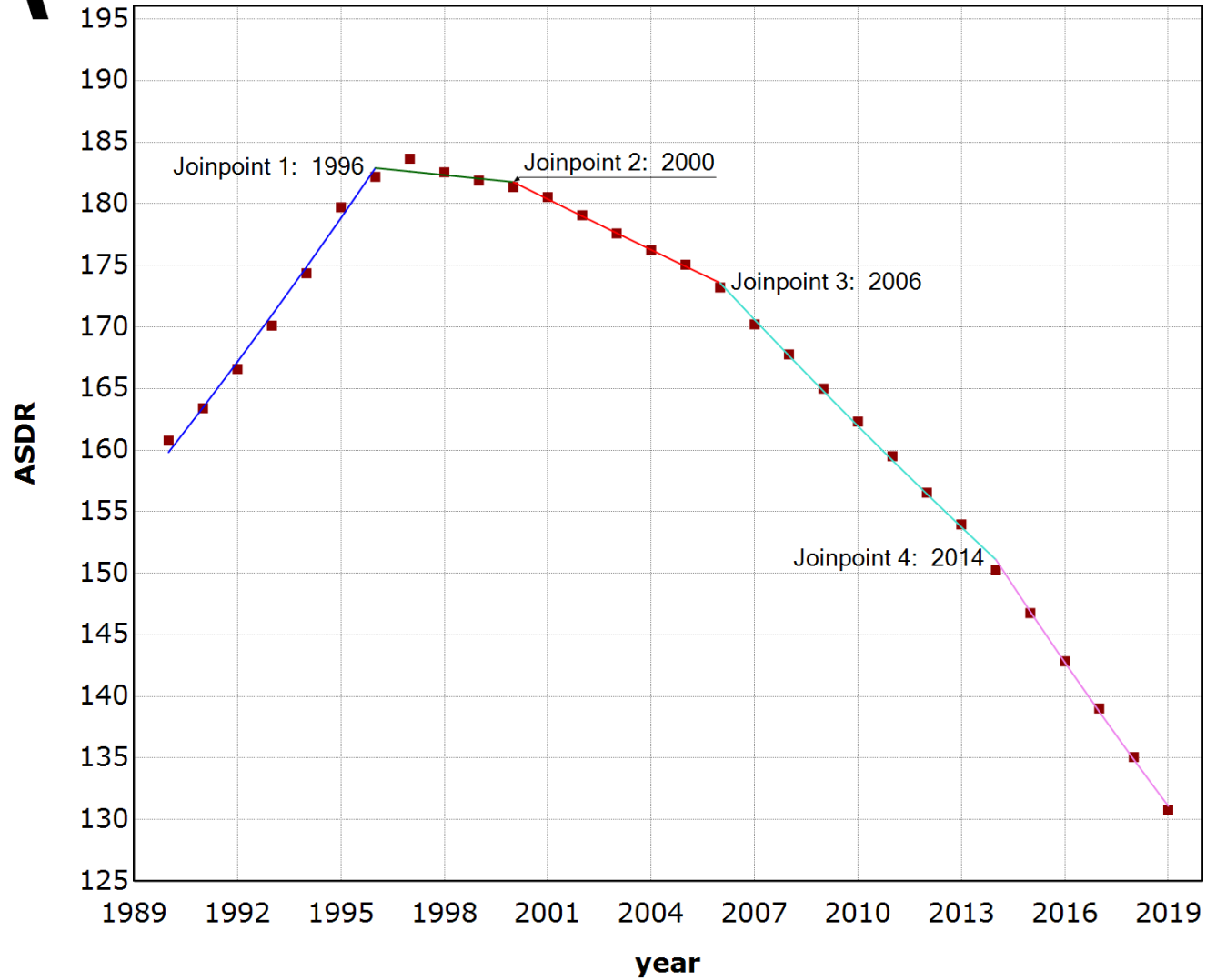
G. APC of ASMR in ischemic stroke due to secondhand smoke in Pakistan from 1990 to 2019.

H. APC of ASMR in ischemic stroke due to secondhand smoke among men in Pakistan from 1990 to 2019.

I. APC of ASMR in ischemic stroke due to secondhand smoke among women in Pakistan from 1990 to 2019.

A

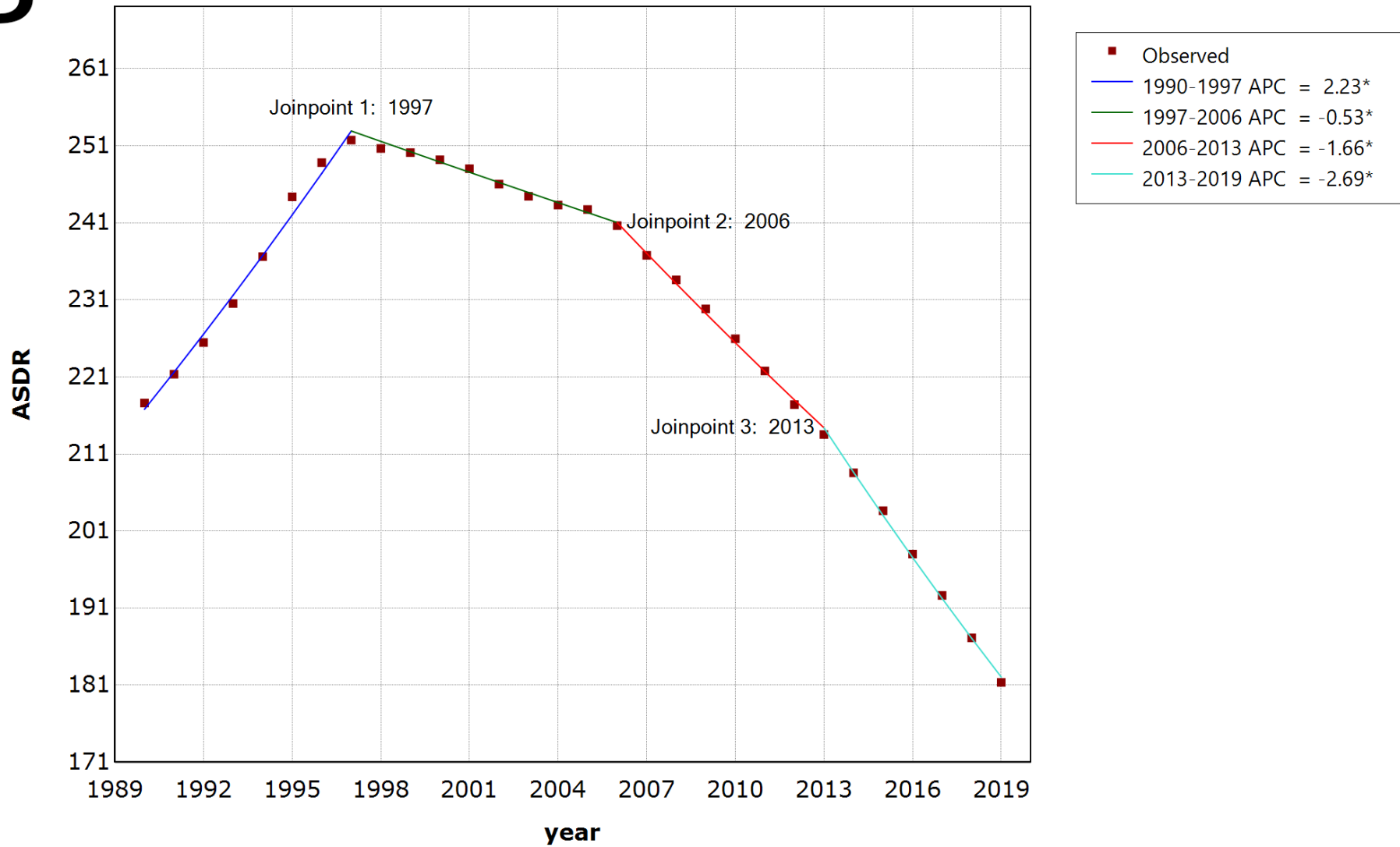
Tobacco / Both: 4 Joinpoints



* Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level
Final Selected Model: 4 Joinpoints.

B

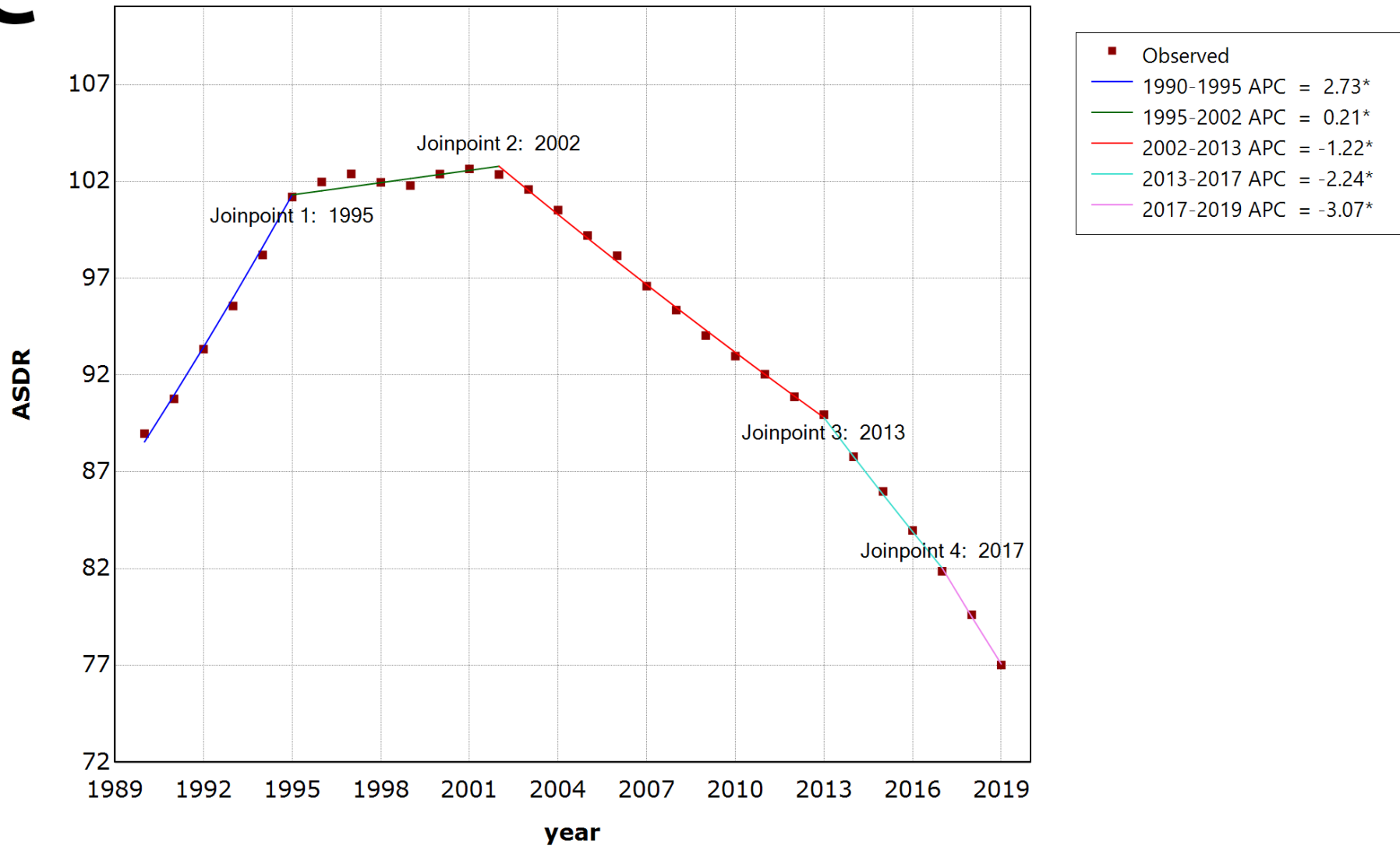
Tobacco / Male: 3 Joinpoints



* Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level
Final Selected Model: 3 Joinpoints.

C

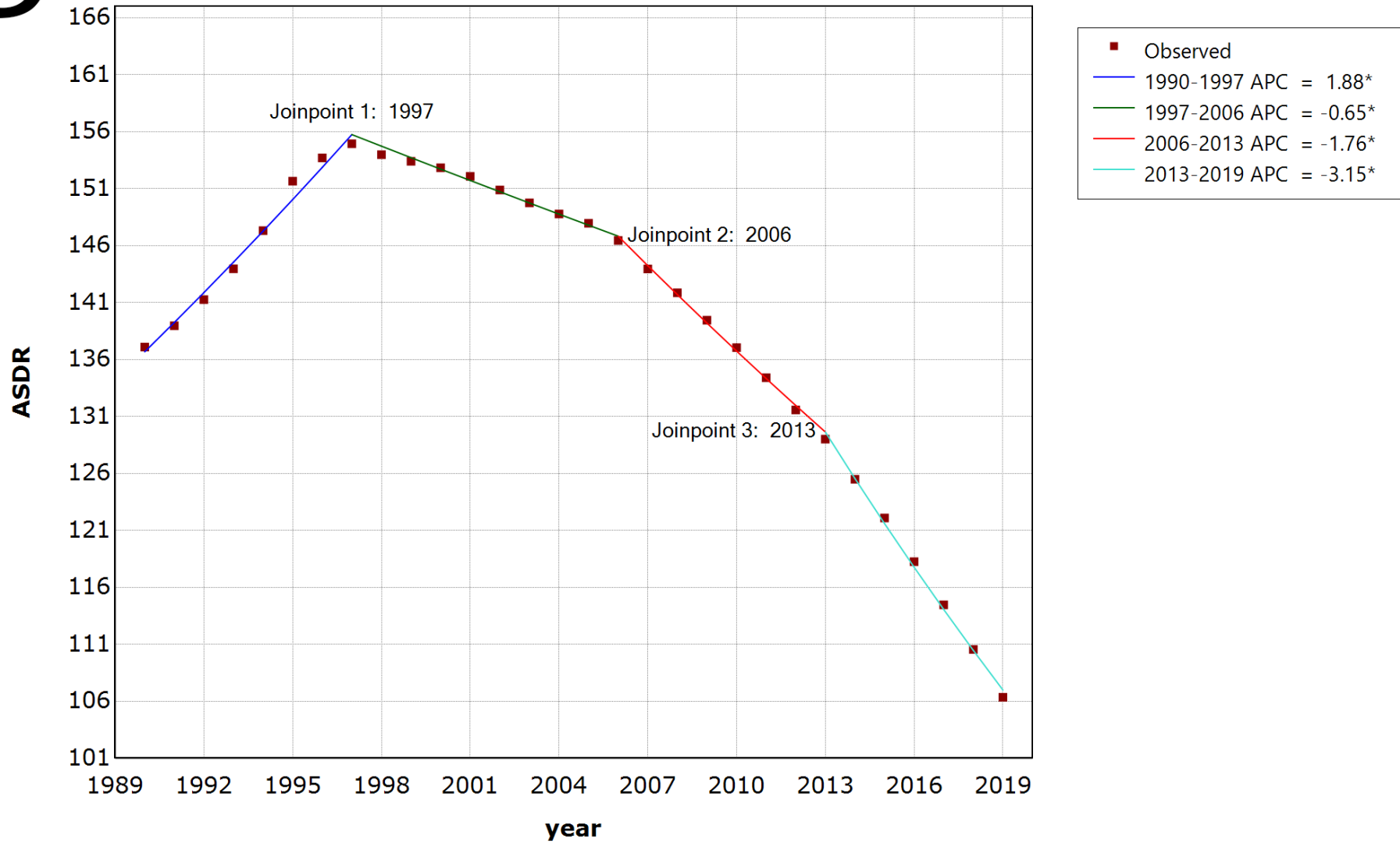
Tobacco / Female: 4 Joinpoints



* Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level
Final Selected Model: 4 Joinpoints.

D

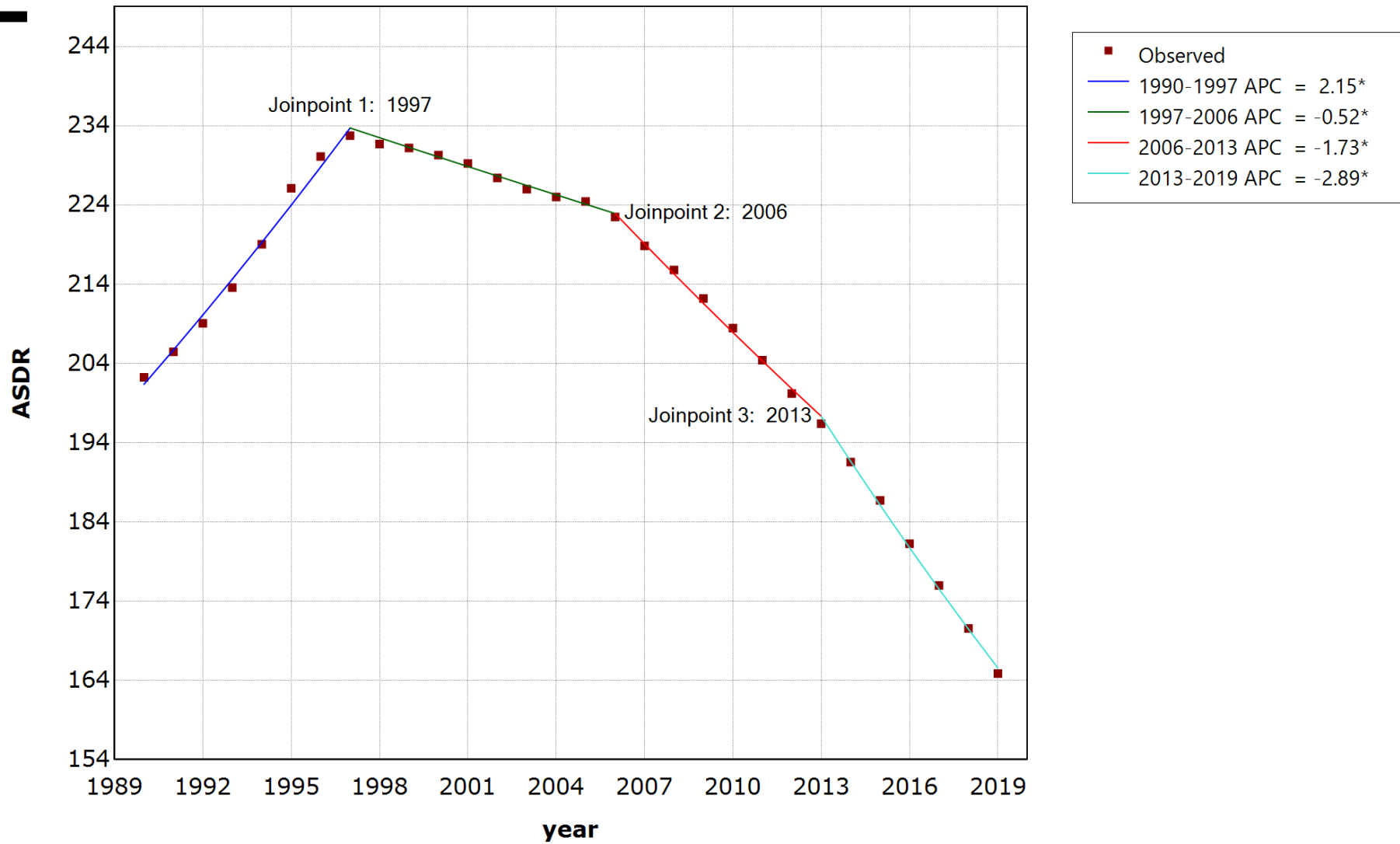
Active smoking / Both: 3 Joinpoints



* Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level
Final Selected Model: 3 Joinpoints.

E

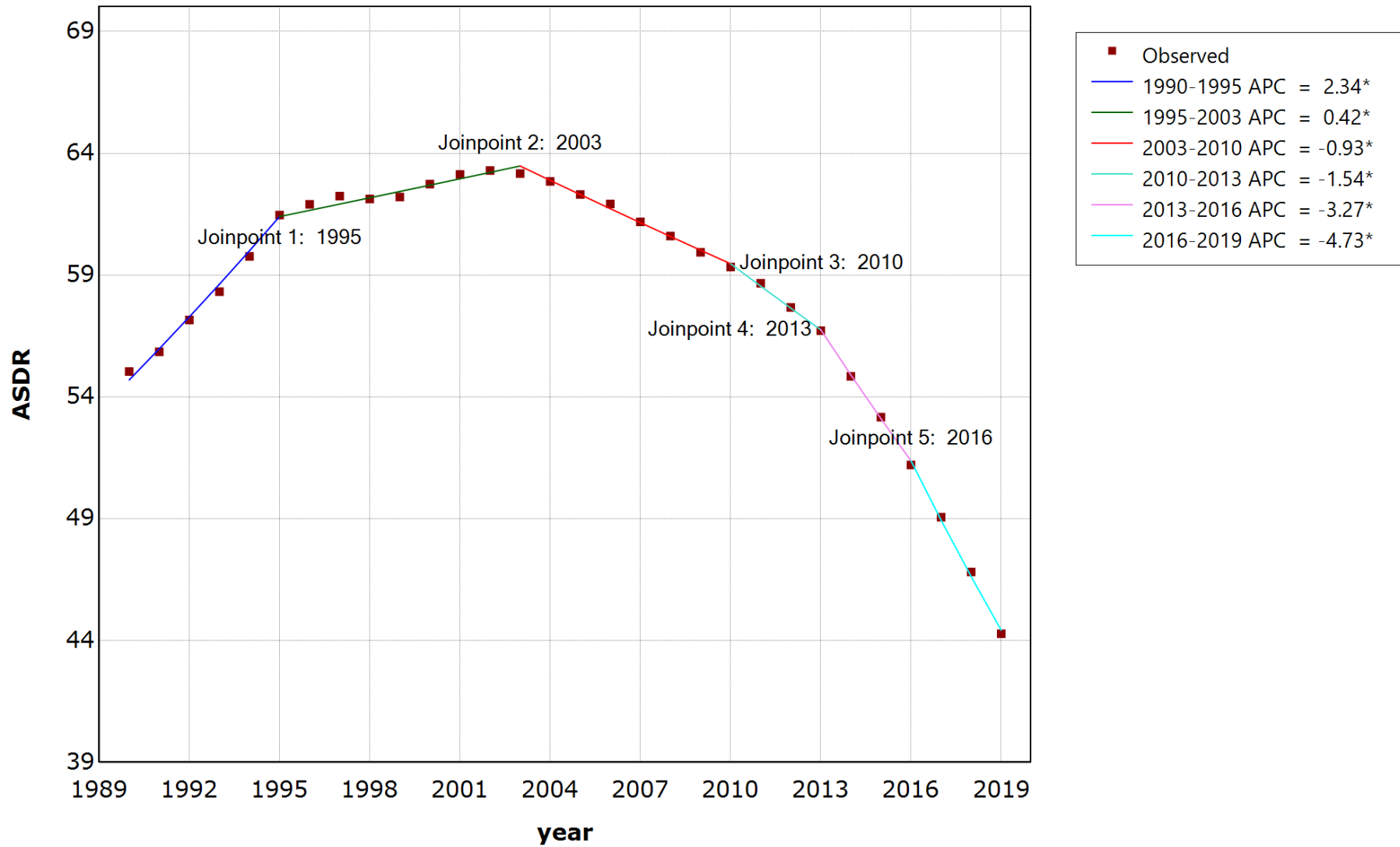
Active smoking / Male: 3 Joinpoints



* Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level
Final Selected Model: 3 Joinpoints.

F

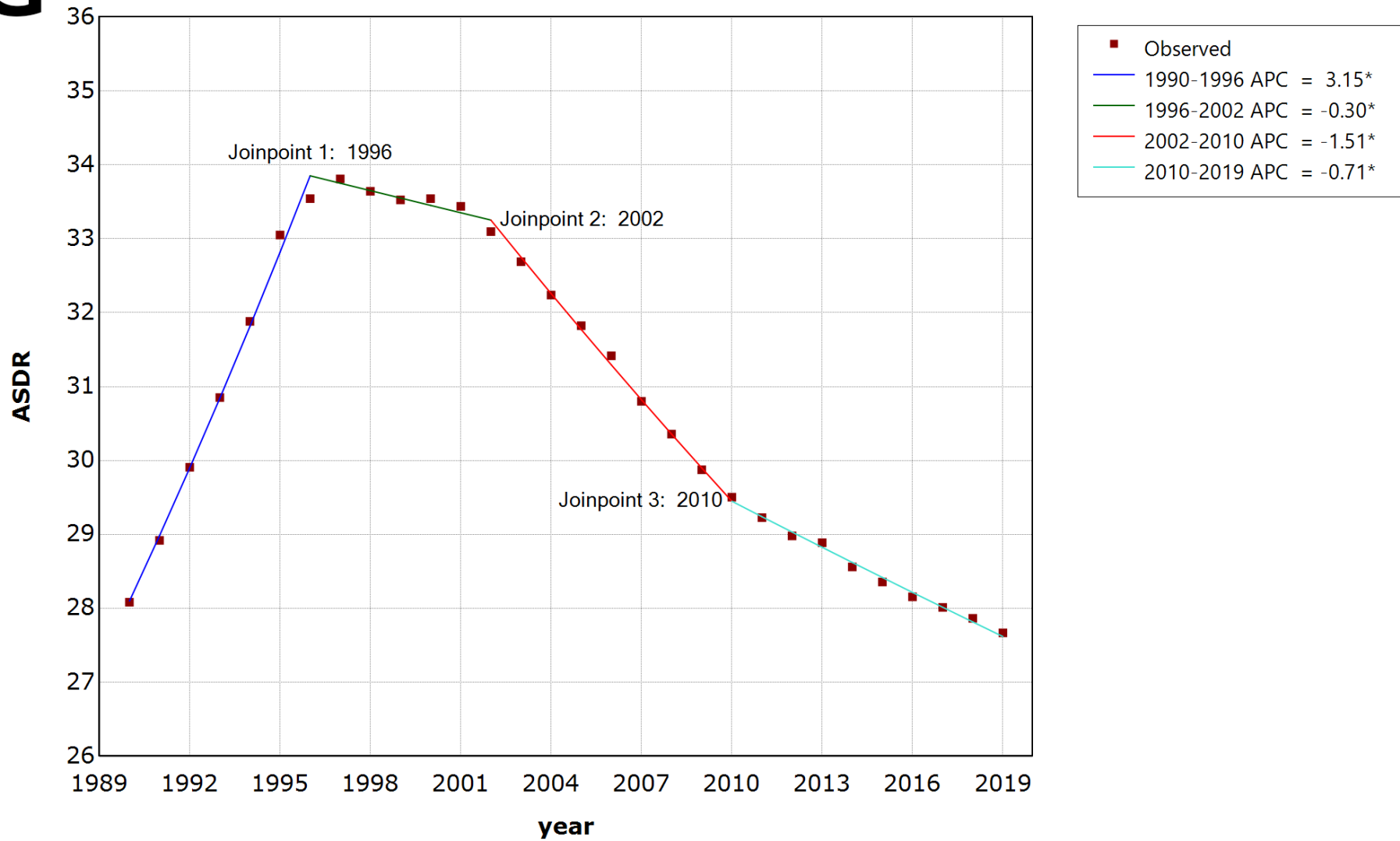
Active smoking / Female: 5 Joinpoints



* Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level
Final Selected Model: 5 Joinpoints.

G

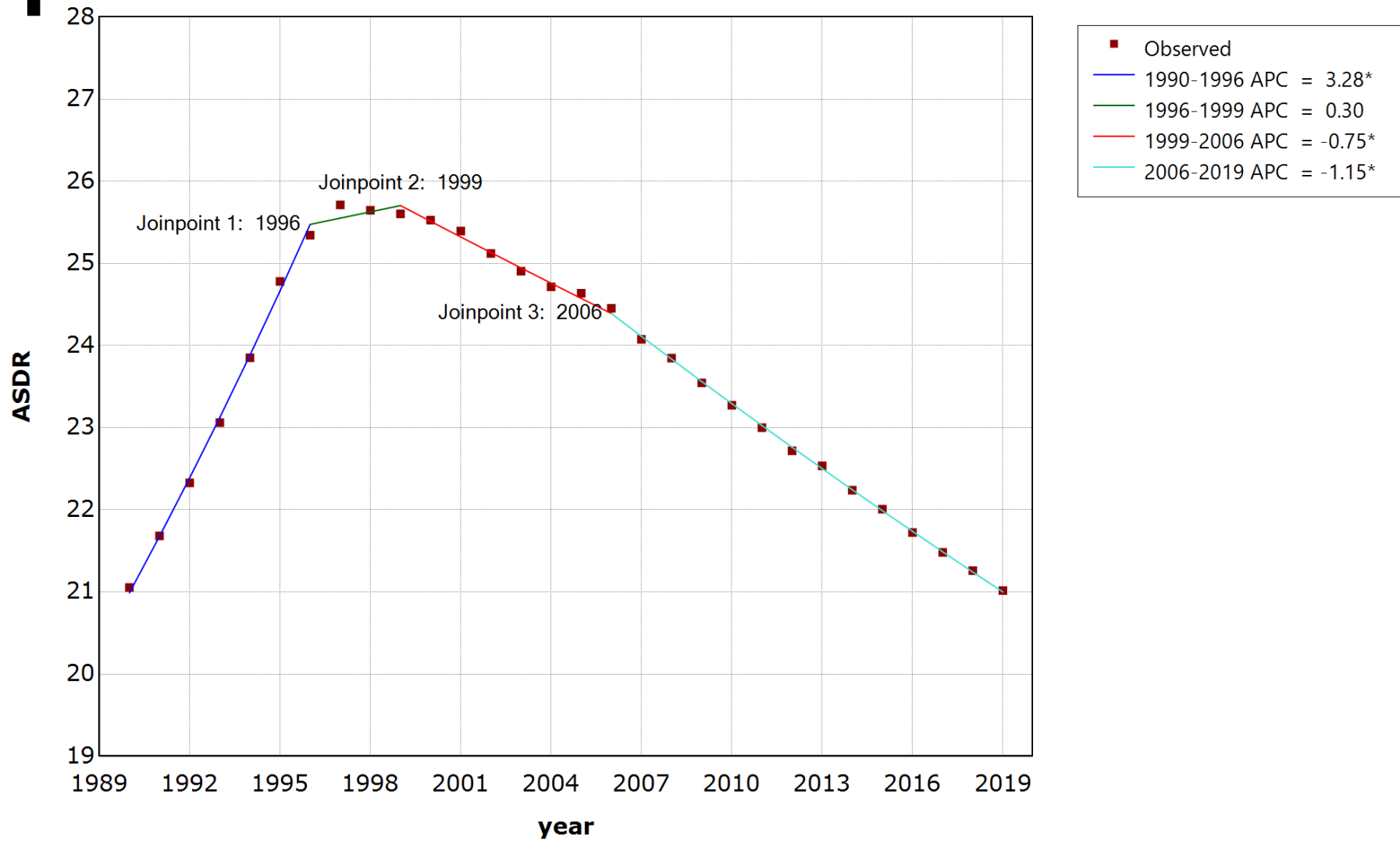
Secondhand smoke / Both: 3 Joinpoints



* Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level
Final Selected Model: 3 Joinpoints.

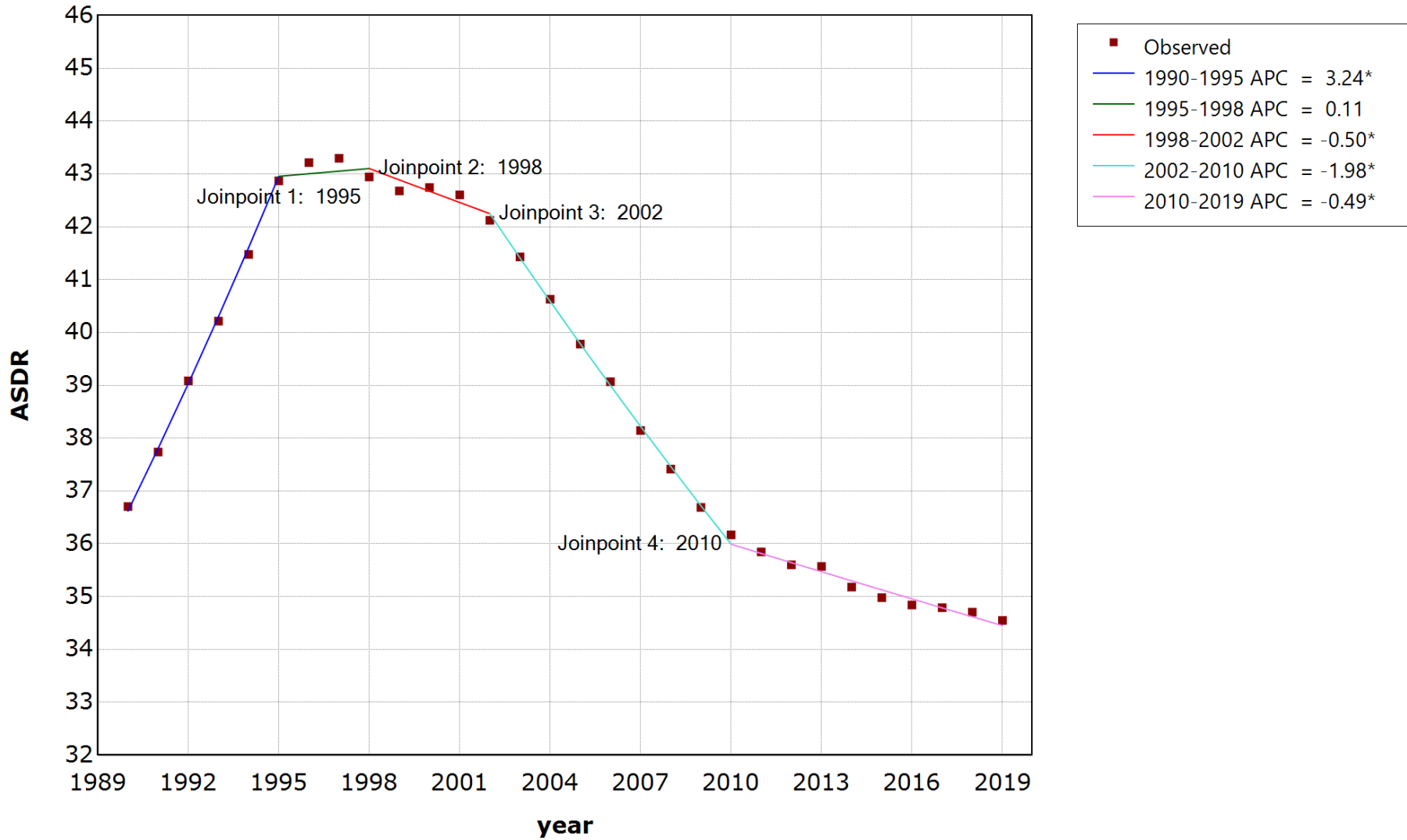
H

Secondhand smoke / Male: 3 Joinpoints



* Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level
Final Selected Model: 3 Joinpoints.

Secondhand smoke / Female: 4 Joinpoints



* Indicates that the Annual Percent Change (APC) is significantly different from zero at the alpha = 0.05 level
Final Selected Model: 4 Joinpoints.

Supplementary Figure 5. APC of ASDR in ischemic stroke due to tobacco use, active smoking and second-hand smoke by gender in Pakistan from 1990 to 2019.

A. APC of ASDR in ischemic stroke due to tobacco use in Pakistan from 1990 to 2019.

B. APC of ASDR in ischemic stroke due to tobacco use among men in Pakistan from 1990 to 2019.

C. APC of ASDR in ischemic stroke due to tobacco use among women in Pakistan from 1990 to 2019.

D. APC of ASDR in ischemic stroke due to active smoking in Pakistan from 1990 to 2019.

E. APC of ASDR in ischemic stroke due to active smoking among men in Pakistan from 1990 to 2019.

F. APC of ASDR in ischemic stroke due to active smoking among women in Pakistan from 1990 to 2019.

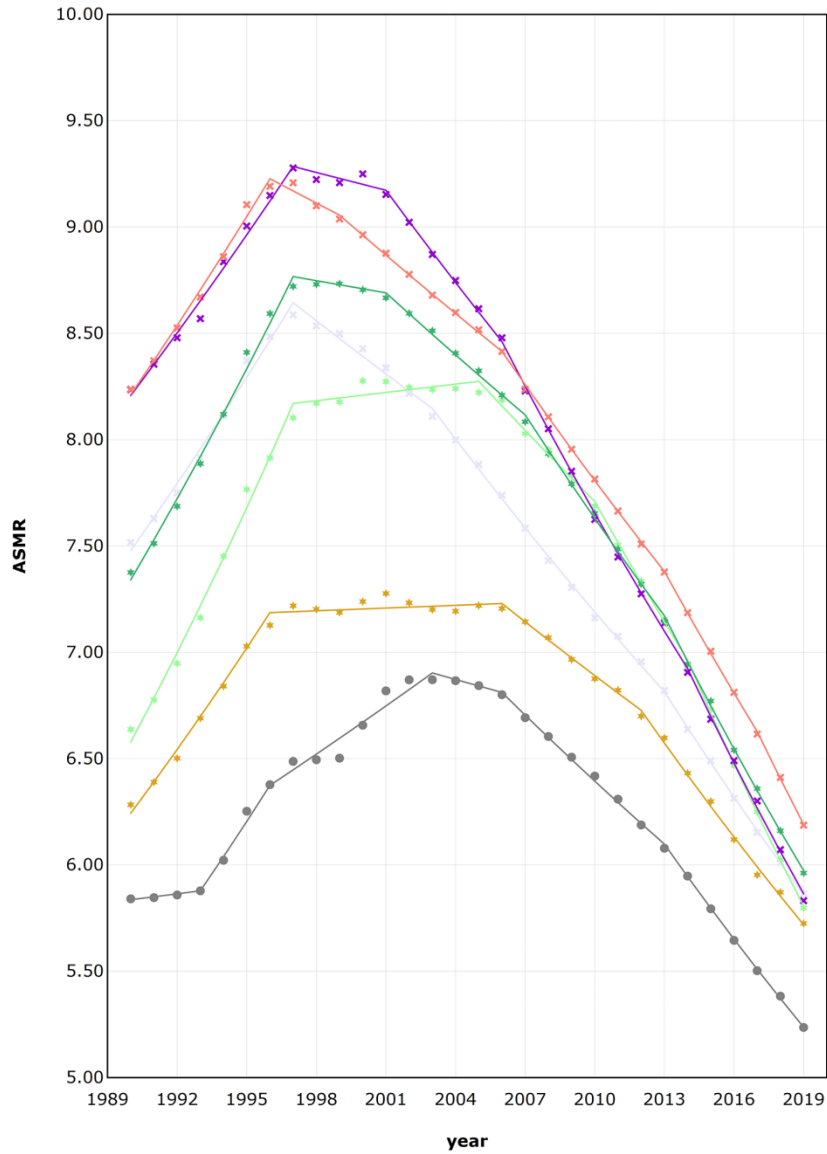
G. APC of ASDR in ischemic stroke due to secondhand smoke in Pakistan from 1990 to 2019.

H. APC of ASDR in ischemic stroke due to secondhand smoke among men in Pakistan from 1990 to 2019.

I. APC of ASDR in ischemic stroke due to secondhand smoke among women in Pakistan from 1990 to 2019.

A

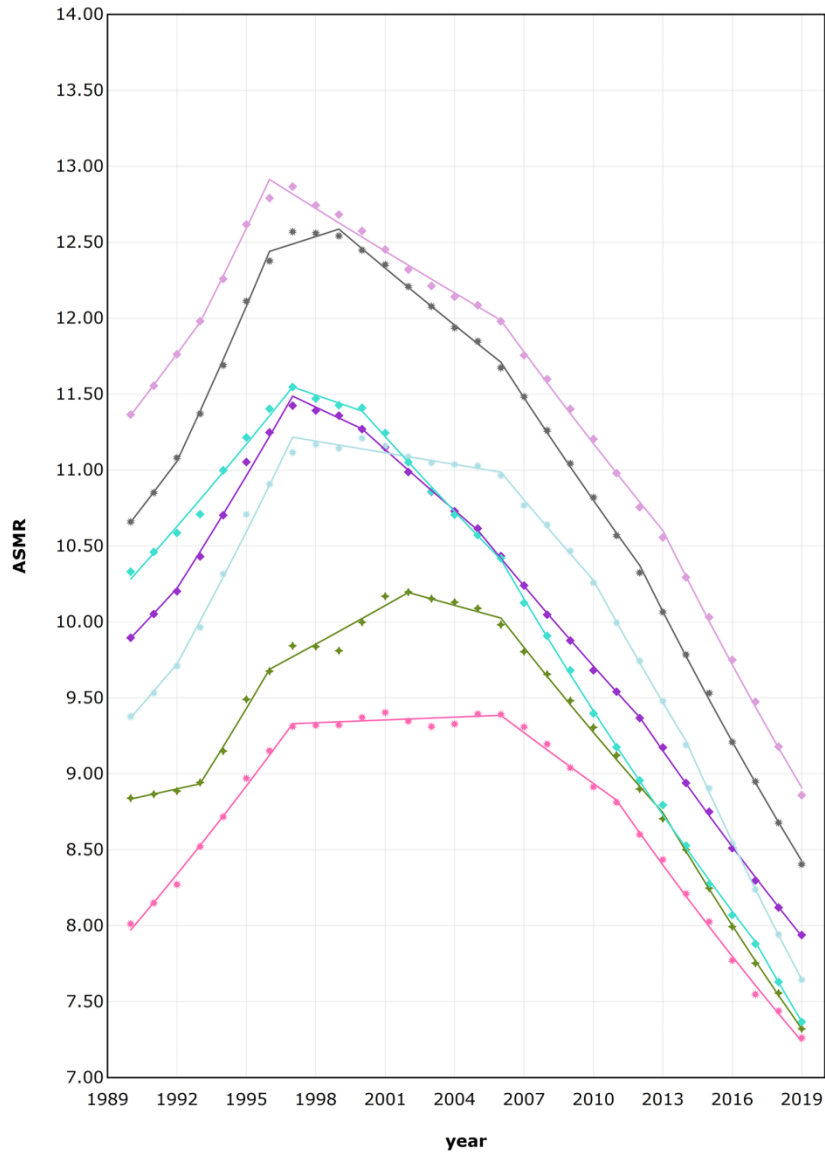
Multiple Joinpoint Models - Tobacco / Both



- ✖ Tobacco / Azad Jammu & Kashmir / Both - 3 Joinpoints
 - 1990-1997 APC = 2.09*
 - 1997-2003 APC = -0.98*
 - 2003-2013 APC = -1.77*
 - 2013-2019 APC = -2.48*
- * Tobacco / Balochistan / Both - 4 Joinpoints
 - 1990-1997 APC = 3.14*
 - 1997-2005 APC = 0.16
 - 2005-2010 APC = -1.41*
 - 2010-2014 APC = -2.51*
 - 2014-2019 APC = -3.57*
- Tobacco / Gilgit-Baltistan / Both - 5 Joinpoints
 - 1990-1993 APC = 0.24
 - 1993-1996 APC = 2.74*
 - 1996-2003 APC = 1.14*
 - 2003-2006 APC = -0.44
 - 2006-2013 APC = -1.57*
 - 2013-2019 APC = -2.50*
- ✖ Tobacco / Islamabad Capital Territory / Both - 4 Joinpoints
 - 1990-1997 APC = 1.78*
 - 1997-2001 APC = -0.30
 - 2001-2006 APC = -1.60*
 - 2006-2014 APC = -2.48*
 - 2014-2019 APC = -3.26*
- * Tobacco / Khyber Pakhtunkhwa / Both - 3 Joinpoints
 - 1990-1996 APC = 2.37*
 - 1996-2006 APC = 0.06
 - 2006-2012 APC = -1.19*
 - 2012-2019 APC = -2.29*
- ✖ Tobacco / Punjab / Both - 5 Joinpoints
 - 1990-1996 APC = 1.96*
 - 1996-1999 APC = -0.62
 - 1999-2006 APC = -1.04*
 - 2006-2013 APC = -1.86*
 - 2013-2017 APC = -2.65*
 - 2017-2019 APC = -3.35*
- * Tobacco / Sindh / Both - 4 Joinpoints
 - 1990-1997 APC = 2.57*
 - 1997-2001 APC = -0.22
 - 2001-2007 APC = -1.13*
 - 2007-2013 APC = -2.04*
 - 2013-2019 APC = -3.00*

B

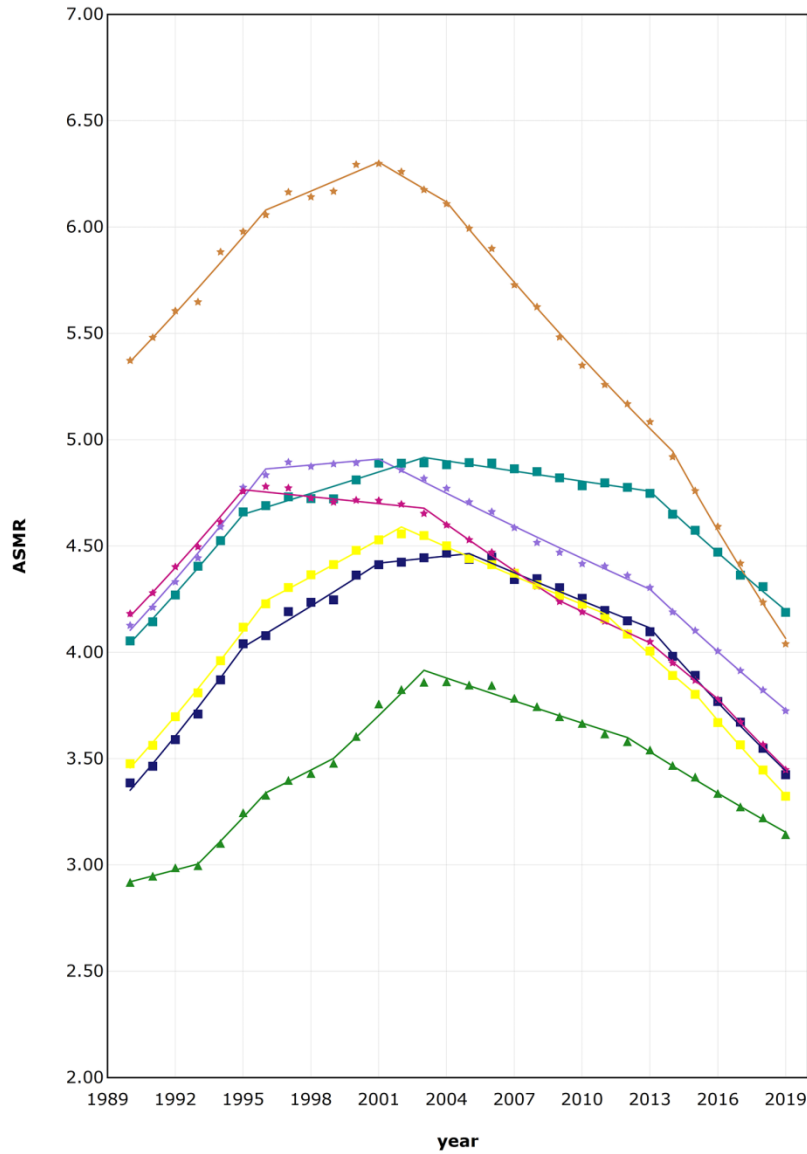
Multiple Joinpoint Models - Tobacco / Male



- ◆ Tobacco / Azad Jammu & Kashmir / Male - 5 Joinpoints
 - 1990-1992 APC = 1.64*
 - 1992-1997 APC = 2.36*
 - 1997-2000 APC = -0.63
 - 2000-2005 APC = -1.21*
 - 2005-2012 APC = -1.75*
 - 2012-2019 APC = -2.36*
- ◆ Tobacco / Balochistan / Male - 5 Joinpoints
 - 1990-1992 APC = 1.87*
 - 1992-1997 APC = 2.90*
 - 1997-2006 APC = -0.23*
 - 2006-2010 APC = -1.66*
 - 2010-2014 APC = -2.68*
 - 2014-2019 APC = -3.66*
- ◆ Tobacco / Gilgit-Baltistan / Male - 5 Joinpoints
 - 1990-1993 APC = 0.38
 - 1993-1996 APC = 2.74*
 - 1996-2002 APC = 0.85*
 - 2002-2006 APC = -0.42
 - 2006-2013 APC = -1.93*
 - 2013-2019 APC = -2.92*
- ◆ Tobacco / Islamabad Capital Territory / Male - 4 Joinpoints
 - 1990-1997 APC = 1.67*
 - 1997-2000 APC = -0.46
 - 2000-2006 APC = -1.49*
 - 2006-2017 APC = -2.49*
 - 2017-2019 APC = -3.38*
- ◆ Tobacco / Khyber Pakhtunkhwa / Male - 3 Joinpoints
 - 1990-1997 APC = 2.27*
 - 1997-2006 APC = 0.07
 - 2006-2011 APC = -1.22*
 - 2011-2019 APC = -2.45*
- ◆ Tobacco / Punjab / Male - 4 Joinpoints
 - 1990-1993 APC = 1.77*
 - 1993-1996 APC = 2.55*
 - 1996-2006 APC = -0.74*
 - 2006-2013 APC = -1.74*
 - 2013-2019 APC = -2.86*
- ◆ Tobacco / Sindh / Male - 5 Joinpoints
 - 1990-1992 APC = 1.86*
 - 1992-1996 APC = 2.99*
 - 1996-1999 APC = 0.39
 - 1999-2006 APC = -1.03*
 - 2006-2012 APC = -2.00*
 - 2012-2019 APC = -2.92*

C

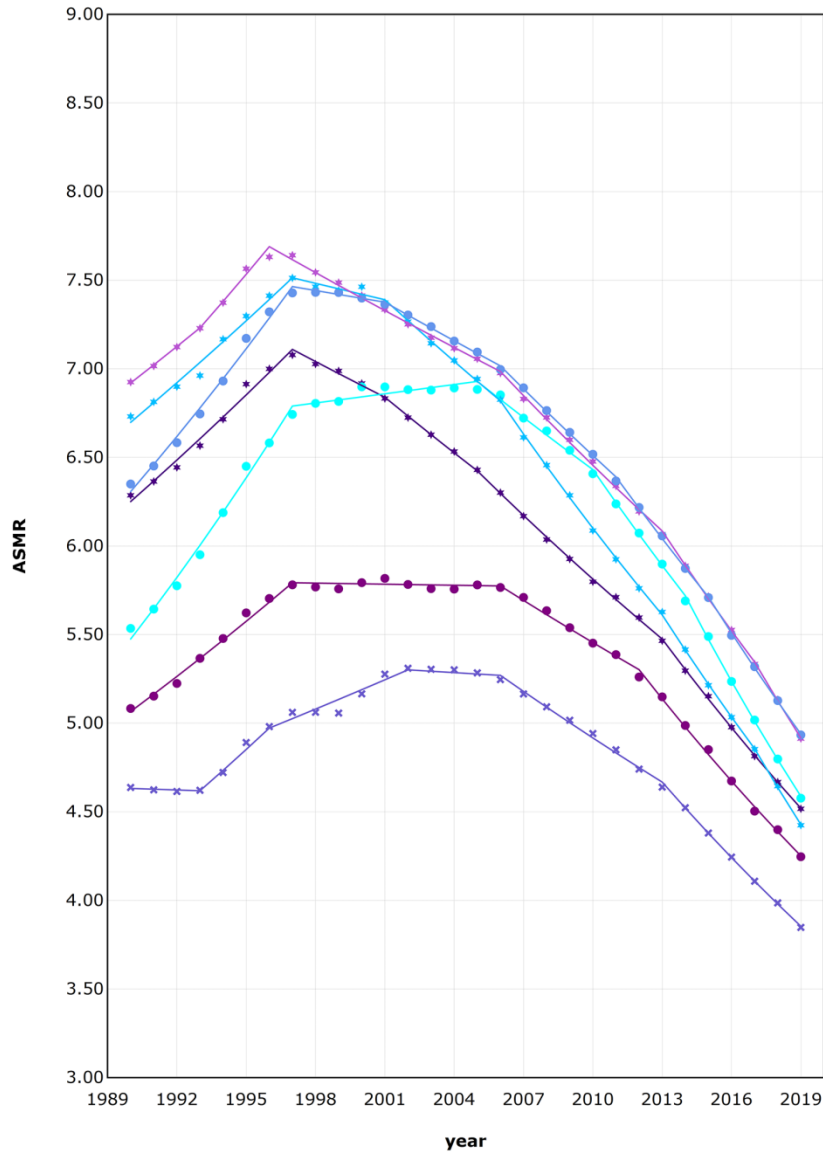
Multiple Joinpoint Models - Tobacco / Female



- * Tobacco / Azad Jammu & Kashmir / Female - 3 Joinpoints
 - 1990-1996 APC = 2.87*
 - 1996-2001 APC = 0.19
 - 2001-2013 APC = -1.10*
 - 2013-2019 APC = -2.33*
- Tobacco / Balochistan / Female - 4 Joinpoints
 - 1990-1995 APC = 3.73*
 - 1995-2001 APC = 1.57*
 - 2001-2005 APC = 0.25
 - 2005-2013 APC = -1.01*
 - 2013-2019 APC = -2.93*
- ▲ Tobacco / Gilgit-Baltistan / Female - 5 Joinpoints
 - 1990-1993 APC = 0.95*
 - 1993-1996 APC = 3.58*
 - 1996-1999 APC = 1.59*
 - 1999-2003 APC = 2.83*
 - 2003-2012 APC = -0.93*
 - 2012-2019 APC = -1.87*
- * Tobacco / Islamabad Capital Territory / Female - 4 Joinpoints
 - 1990-1996 APC = 2.10*
 - 1996-2001 APC = 0.73*
 - 2001-2004 APC = -1.00
 - 2004-2014 APC = -2.10*
 - 2014-2019 APC = -3.84*
- Tobacco / Khyber Pakhtunkhwa / Female - 3 Joinpoints
 - 1990-1995 APC = 2.83*
 - 1995-2003 APC = 0.70*
 - 2003-2013 APC = -0.33*
 - 2013-2019 APC = -2.07*
- * Tobacco / Punjab / Female - 5 Joinpoints
 - 1990-1995 APC = 2.70*
 - 1995-2003 APC = -0.23*
 - 2003-2009 APC = -1.62*
 - 2009-2013 APC = -1.19*
 - 2013-2016 APC = -2.22*
 - 2016-2019 APC = -2.98*
- Tobacco / Sindh / Female - 4 Joinpoints
 - 1990-1996 APC = 3.48*
 - 1996-2002 APC = 1.32*
 - 2002-2011 APC = -1.03*
 - 2011-2015 APC = -2.34*
 - 2015-2019 APC = -3.29*

D

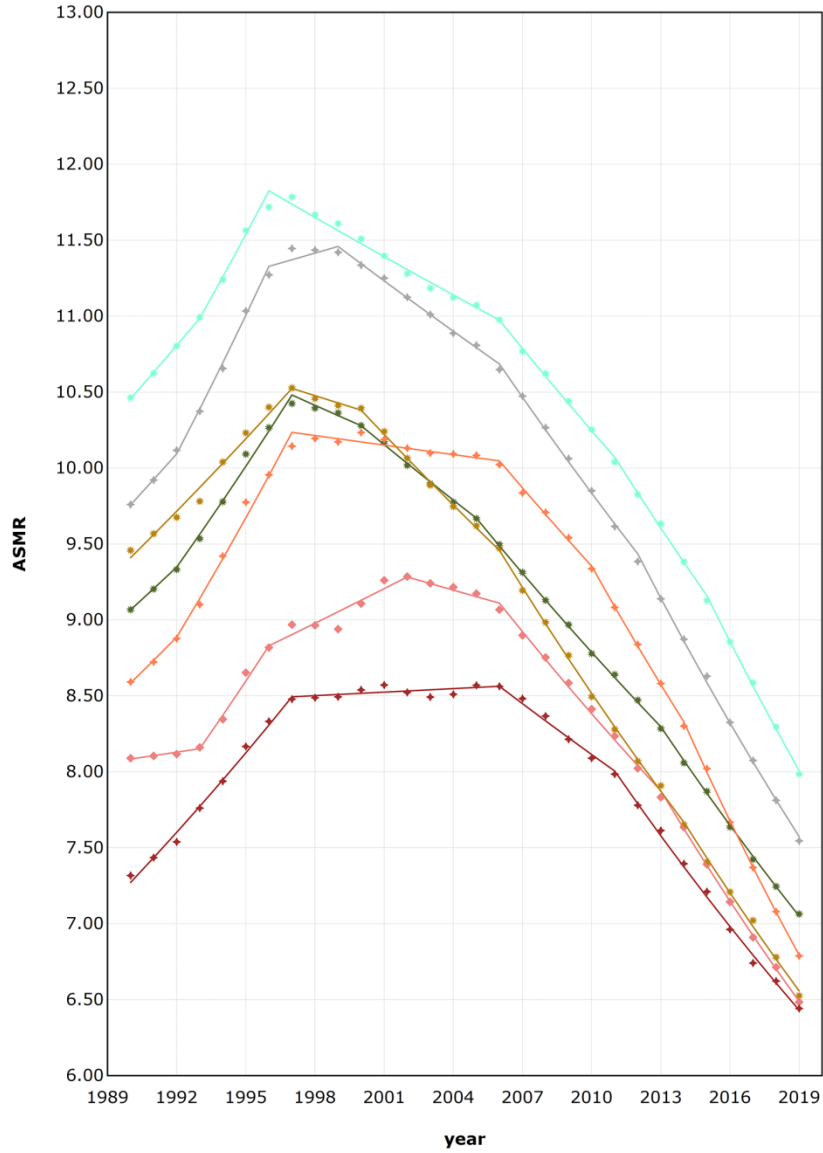
Multiple Joinpoint Models - Active smoking / Both



- * Smoking / Azad Jammu & Kashmir / Both - 4 Joinpoints
 - 1990-1997 APC = 1.86*
 - 1997-2001 APC = -0.96*
 - 2001-2005 APC = -1.55*
 - 2005-2013 APC = -1.98*
 - 2013-2019 APC = -3.14*
- Smoking / Balochistan / Both - 4 Joinpoints
 - 1990-1997 APC = 3.12*
 - 1997-2005 APC = 0.25*
 - 2005-2010 APC = -1.48*
 - 2010-2014 APC = -2.89*
 - 2014-2019 APC = -4.32*
- * Smoking / Gilgit-Baltistan / Both - 5 Joinpoints
 - 1990-1993 APC = -0.09
 - 1993-1996 APC = 2.49*
 - 1996-2002 APC = 1.07*
 - 2002-2006 APC = -0.15
 - 2006-2013 APC = -1.72*
 - 2013-2019 APC = -3.14*
- * Smoking / Islamabad Capital Territory / Both - 5 Joinpoints
 - 1990-1997 APC = 1.66*
 - 1997-2001 APC = -0.41
 - 2001-2006 APC = -1.59*
 - 2006-2013 APC = -2.75*
 - 2013-2017 APC = -3.55*
 - 2017-2019 APC = -4.50*
- Smoking / Khyber Pakhtunkhwa / Both - 3 Joinpoints
 - 1990-1997 APC = 1.93*
 - 1997-2006 APC = -0.03
 - 2006-2012 APC = -1.41*
 - 2012-2019 APC = -3.11*
- * Smoking / Punjab / Both - 5 Joinpoints
 - 1990-1993 APC = 1.48*
 - 1993-1996 APC = 2.07*
 - 1996-2006 APC = -0.96*
 - 2006-2013 APC = -1.95*
 - 2013-2017 APC = -3.19*
 - 2017-2019 APC = -4.10*
- Smoking / Sindh / Both - 5 Joinpoints
 - 1990-1997 APC = 2.44*
 - 1997-2001 APC = -0.30
 - 2001-2006 APC = -0.99*
 - 2006-2011 APC = -1.85*
 - 2011-2015 APC = -2.76*
 - 2015-2019 APC = -3.57*

E

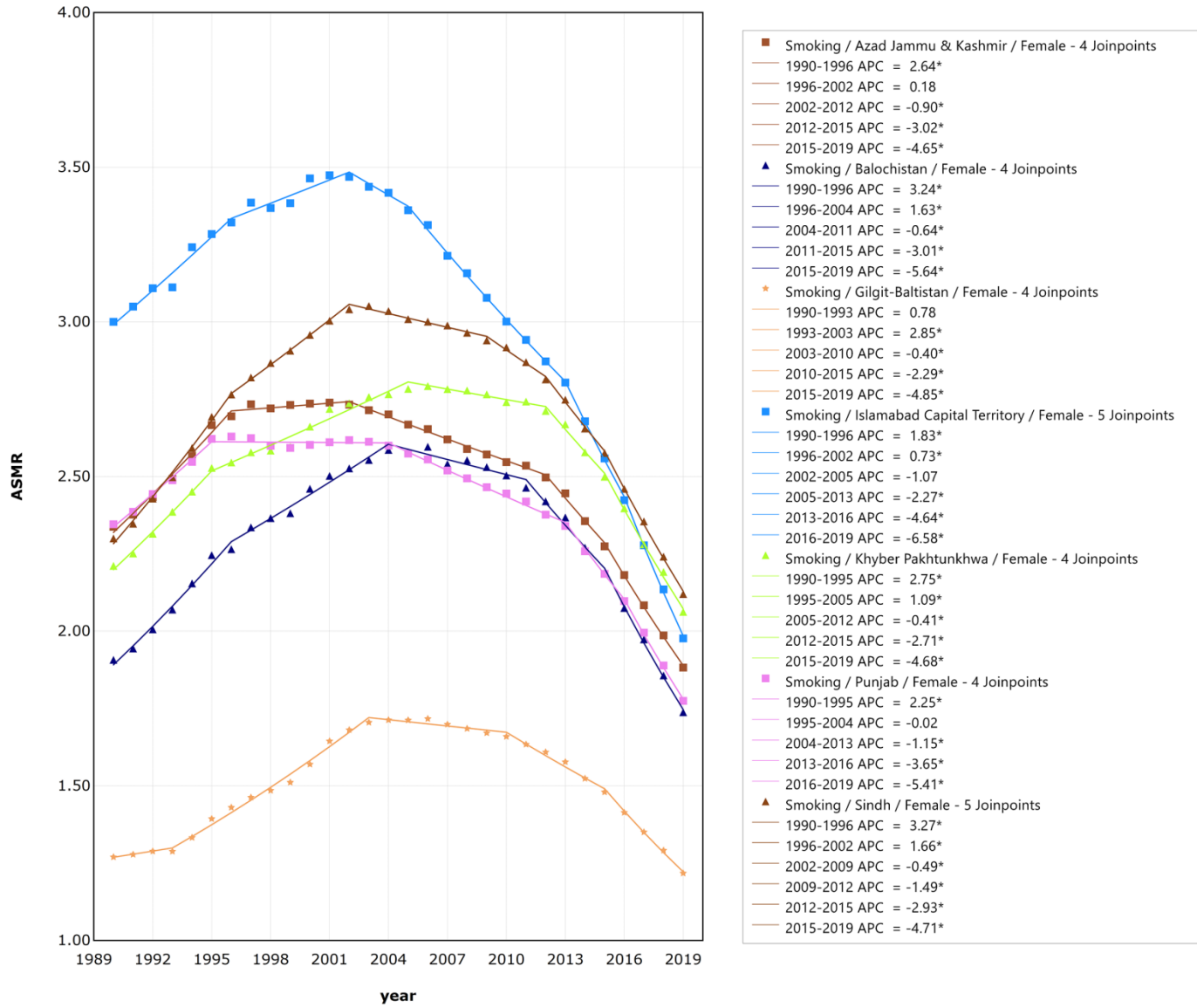
Multiple Joinpoint Models - Active smoking / Male



- Smoking / Azad Jammu & Kashmir / Male - 5 Joinpoints
 - 1990-1992 APC = 1.54*
 - 1992-1997 APC = 2.32*
 - 1997-2000 APC = -0.65
 - 2000-2005 APC = -1.21*
 - 2005-2013 APC = -1.90*
 - 2013-2019 APC = -2.68*
- ♦ Smoking / Balochistan / Male - 5 Joinpoints
 - 1990-1992 APC = 1.74*
 - 1992-1997 APC = 2.87*
 - 1997-2006 APC = -0.21*
 - 2006-2010 APC = -1.77*
 - 2010-2014 APC = -2.86*
 - 2014-2019 APC = -3.99*
- ♦ Smoking / Gilgit-Baltistan / Male - 5 Joinpoints
 - 1990-1993 APC = 0.28
 - 1993-1996 APC = 2.70*
 - 1996-2002 APC = 0.84*
 - 2002-2006 APC = -0.47
 - 2006-2013 APC = -2.06*
 - 2013-2019 APC = -3.18*
- Smoking / Islamabad Capital Territory / Male - 4 Joinpoints
 - 1990-1997 APC = 1.61*
 - 1997-2000 APC = -0.46
 - 2000-2006 APC = -1.54*
 - 2006-2014 APC = -2.59*
 - 2014-2019 APC = -3.08*
- ♦ Smoking / Khyber Pakhtunkhwa / Male - 3 Joinpoints
 - 1990-1997 APC = 2.24*
 - 1997-2006 APC = 0.09
 - 2006-2011 APC = -1.34*
 - 2011-2019 APC = -2.70*
- Smoking / Punjab / Male - 5 Joinpoints
 - 1990-1993 APC = 1.66*
 - 1993-1996 APC = 2.49*
 - 1996-2006 APC = -0.74*
 - 2006-2011 APC = -1.70*
 - 2011-2015 APC = -2.35*
 - 2015-2019 APC = -3.30*
- ♦ Smoking / Sindh / Male - 5 Joinpoints
 - 1990-1992 APC = 1.70*
 - 1992-1996 APC = 2.93*
 - 1996-1999 APC = 0.38
 - 1999-2006 APC = -0.99*
 - 2006-2012 APC = -2.05*
 - 2012-2019 APC = -3.09*

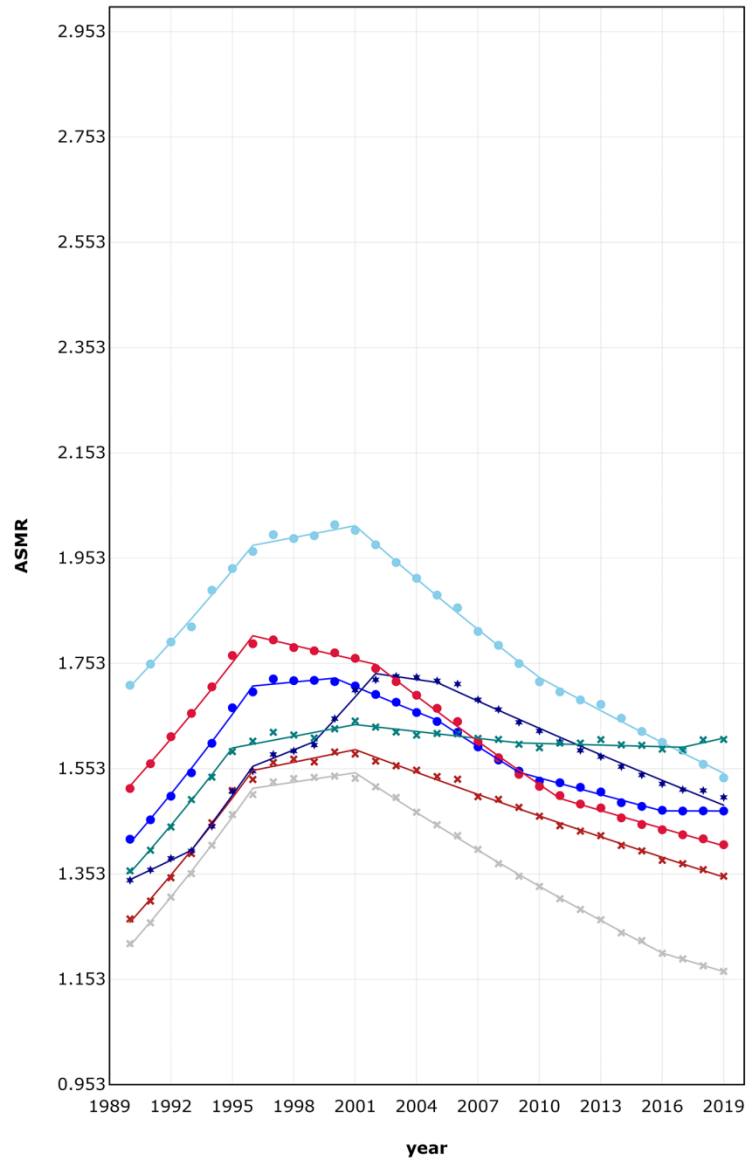
F

Multiple Joinpoint Models - Active smoking / Female



G

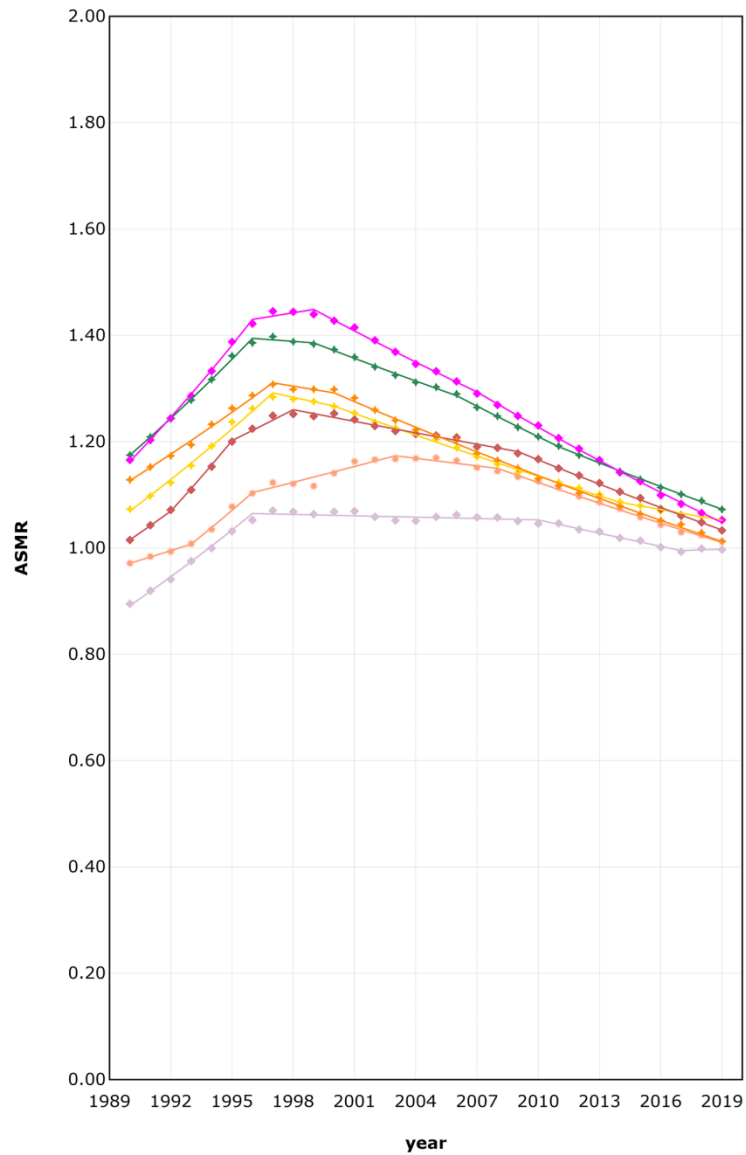
Multiple Joinpoint Models - Secondhand smoke / Both



- Secondhand smoke / Azad Jammu & Kashmir / Both - 5 Joinpoints
 - 1990-1996 APC = 3.25*
 - 1996-2000 APC = 0.22
 - 2000-2005 APC = -0.94*
 - 2005-2009 APC = -1.54*
 - 2009-2016 APC = -0.69*
 - 2016-2019 APC = -0.00
- × Secondhand smoke / Balochistan / Both - 2 Joinpoints
 - 1990-1996 APC = 3.49*
 - 1996-2001 APC = 0.51*
 - 2001-2019 APC = -0.91*
- ★ Secondhand smoke / Gilgit-Baltistan / Both - 5 Joinpoints
 - 1990-1993 APC = 1.36*
 - 1993-1996 APC = 3.67*
 - 1996-1999 APC = 0.99
 - 1999-2002 APC = 2.61*
 - 2002-2005 APC = -0.32
 - 2005-2019 APC = -1.04*
- Secondhand smoke / Islamabad Capital Territory / Both - 3 Joinpoints
 - 1990-1996 APC = 2.46*
 - 1996-2001 APC = 0.38*
 - 2001-2010 APC = -1.70*
 - 2010-2019 APC = -1.23*
- × Secondhand smoke / Khyber Pakhtunkhwa / Both - 4 Joinpoints
 - 1990-1995 APC = 3.28*
 - 1995-2001 APC = 0.46*
 - 2001-2009 APC = -0.27*
 - 2009-2017 APC = -0.06
 - 2017-2019 APC = 0.54
- Secondhand smoke / Punjab / Both - 3 Joinpoints
 - 1990-1996 APC = 2.91*
 - 1996-2002 APC = -0.51*
 - 2002-2011 APC = -1.73*
 - 2011-2019 APC = -0.77*
- × Secondhand smoke / Sindh / Both - 3 Joinpoints
 - 1990-1996 APC = 3.73*
 - 1996-2001 APC = 0.39*
 - 2001-2016 APC = -1.66*
 - 2016-2019 APC = -0.98*

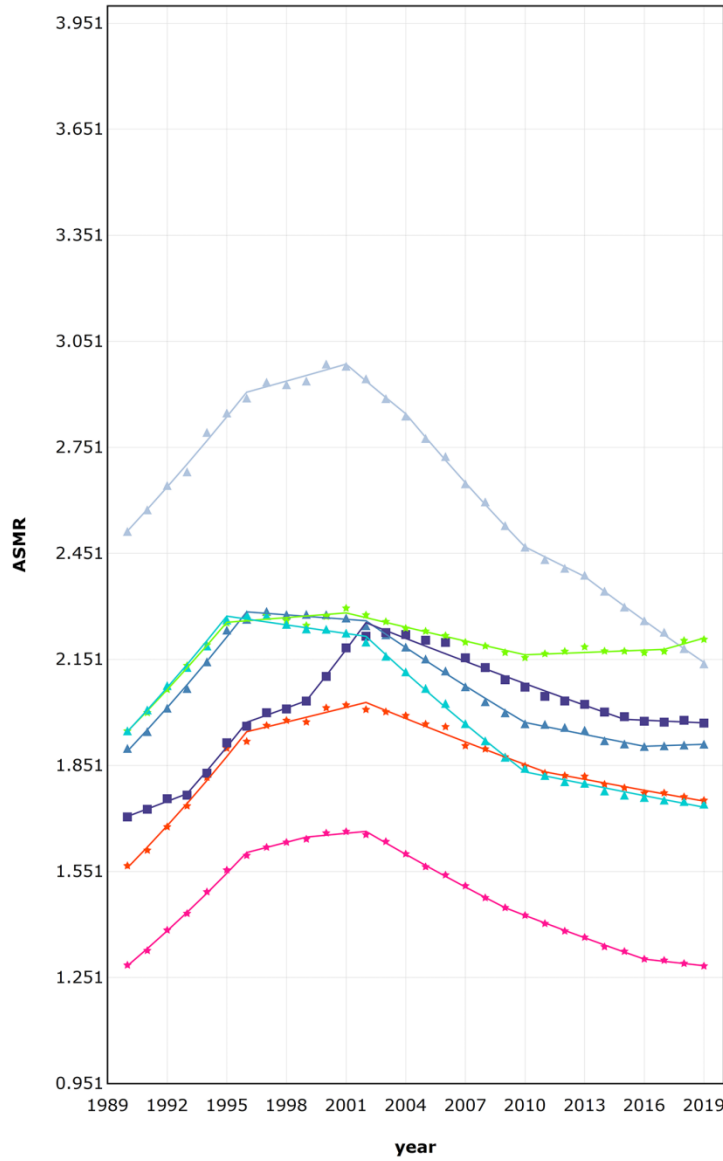
H

Multiple Joinpoint Models - Secondhand smoke / Male



- ◆ Secondhand smoke / Azad Jammu & Kashmir / Male - 3 Joinpoints
 - 1990-1997 APC = 2.73*
 - 1997-2000 APC = -0.64
 - 2000-2014 APC = -1.10*
 - 2014-2019 APC = -0.63*
- ◆ Secondhand smoke / Balochistan / Male - 4 Joinpoints
 - 1990-1992 APC = 2.62*
 - 1992-1995 APC = 3.98*
 - 1995-1998 APC = 1.59*
 - 1998-2009 APC = -0.59*
 - 2009-2019 APC = -1.32*
- ◆ Secondhand smoke / Gilgit-Baltistan / Male - 4 Joinpoints
 - 1990-1993 APC = 1.22*
 - 1993-1996 APC = 3.11*
 - 1996-2003 APC = 0.87*
 - 2003-2008 APC = -0.41
 - 2008-2019 APC = -1.17*
- ◆ Secondhand smoke / Islamabad Capital Territory / Male - 2 Joinpoints
 - 1990-1997 APC = 2.19*
 - 1997-2000 APC = -0.49
 - 2000-2019 APC = -1.28*
- ◆ Secondhand smoke / Khyber Pakhtunkhwa / Male - 3 Joinpoints
 - 1990-1996 APC = 3.01*
 - 1996-2010 APC = -0.08*
 - 2010-2017 APC = -0.80*
 - 2017-2019 APC = 0.14
- ◆ Secondhand smoke / Punjab / Male - 4 Joinpoints
 - 1990-1996 APC = 2.90*
 - 1996-1999 APC = -0.20
 - 1999-2006 APC = -1.06*
 - 2006-2011 APC = -1.54*
 - 2011-2019 APC = -1.29*
- ◆ Secondhand smoke / Sindh / Male - 3 Joinpoints
 - 1990-1996 APC = 3.51*
 - 1996-1999 APC = 0.44
 - 1999-2007 APC = -1.41*
 - 2007-2019 APC = -1.74*

Multiple Joinpoint Models - Secondhand smoke / Female



- ▲ Secondhand smoke / Azad Jammu & Kashmir / Female - 4 Joinpoints
 - 1990-1996 APC = 3.21*
 - 1996-2002 APC = -0.18
 - 2002-2010 APC = -1.69*
 - 2010-2016 APC = -0.58*
 - 2016-2019 APC = 0.10
- * Secondhand smoke / Balochistan / Female - 3 Joinpoints
 - 1990-1996 APC = 3.74*
 - 1996-2002 APC = 0.70*
 - 2002-2011 APC = -1.12*
 - 2011-2019 APC = -0.58*
- Secondhand smoke / Gilgit-Baltistan / Female - 5 Joinpoints
 - 1990-1993 APC = 1.24*
 - 1993-1996 APC = 3.67*
 - 1996-1999 APC = 1.02
 - 1999-2002 APC = 3.50*
 - 2002-2015 APC = -0.99*
 - 2015-2019 APC = -0.13
- ▲ Secondhand smoke / Islamabad Capital Territory / Female - 5 Joinpoints
 - 1990-1996 APC = 2.45*
 - 1996-2001 APC = 0.54*
 - 2001-2004 APC = -1.59*
 - 2004-2010 APC = -2.34*
 - 2010-2013 APC = -1.15
 - 2013-2019 APC = -1.77*
- * Secondhand smoke / Khyber Pakhtunkhwa / Female - 4 Joinpoints
 - 1990-1995 APC = 2.99*
 - 1995-2001 APC = 0.20
 - 2001-2010 APC = -0.59*
 - 2010-2017 APC = 0.10
 - 2017-2019 APC = 0.73
- ▲ Secondhand smoke / Punjab / Female - 3 Joinpoints
 - 1990-1995 APC = 3.15*
 - 1995-2002 APC = -0.36*
 - 2002-2010 APC = -2.35*
 - 2010-2019 APC = -0.62*
- * Secondhand smoke / Sindh / Female - 5 Joinpoints
 - 1990-1996 APC = 3.78*
 - 1996-1999 APC = 0.90*
 - 1999-2002 APC = 0.33
 - 2002-2009 APC = -1.97*
 - 2009-2016 APC = -1.50*
 - 2016-2019 APC = -0.48*

Supplementary Figure 6. APC of ASMR in ischemic stroke due to tobacco use, active smoking and second-hand smoke by gender in various regions of Pakistan from 1990 to 2019.

A. APC of ASMR in ischemic stroke due to tobacco use in various regions of Pakistan from 1990 to 2019.

B. APC of ASMR in ischemic stroke caused by tobacco use among men in various regions of Pakistan from 1990 to 2019.

C. APC of ASMR in ischemic stroke caused by tobacco use among women in various regions of Pakistan from 1990 to 2019.

D. APC of ASMR in ischemic stroke due to active smoking in various regions of Pakistan from 1990 to 2019.

E. APC of ASMR in ischemic stroke caused by active smoking among men in various regions of Pakistan from 1990 to 2019.

F. APC of ASMR in ischemic stroke caused by active smoking among women in various regions of Pakistan from 1990 to 2019.

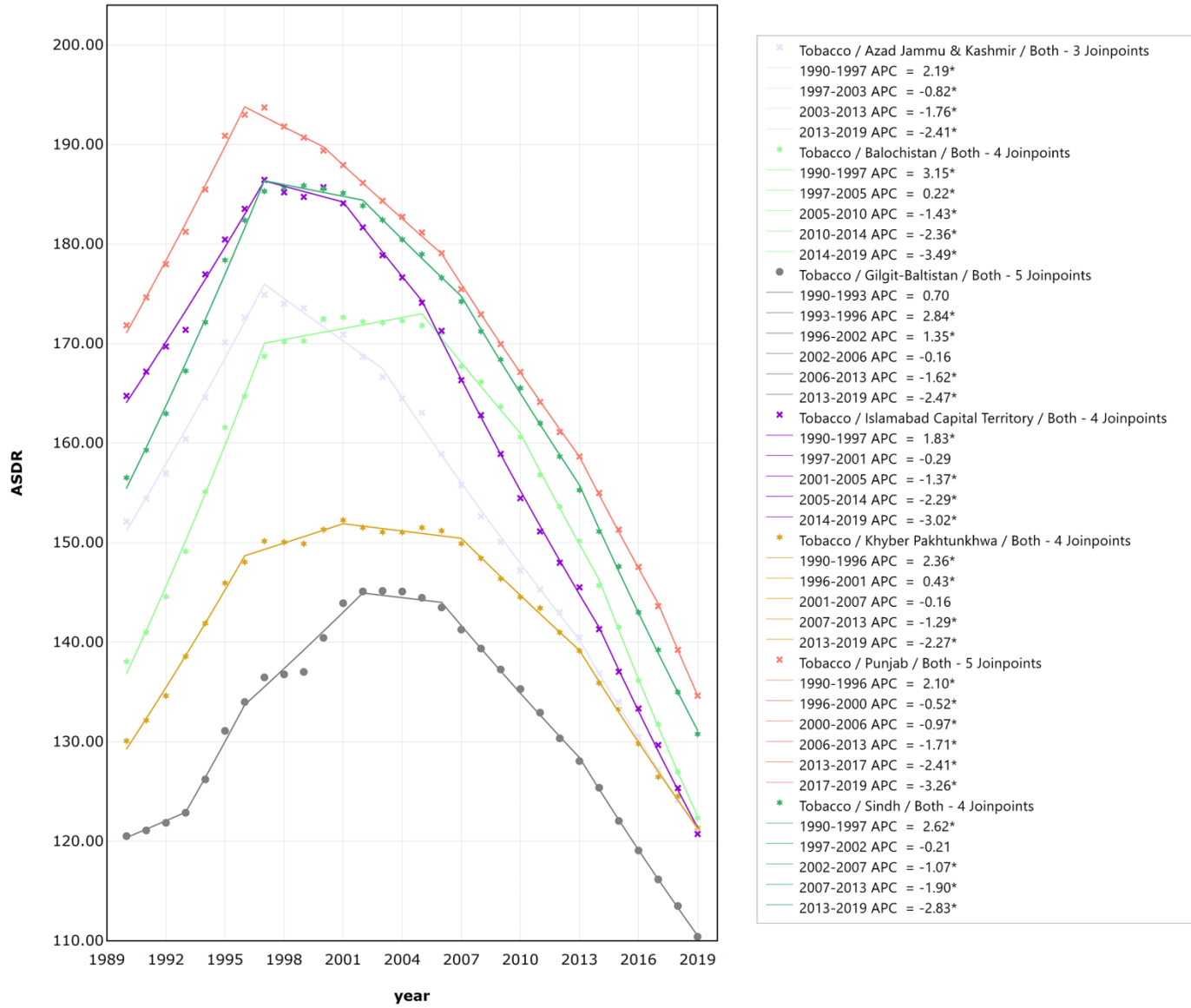
G. APC of ASMR in ischemic stroke due to secondhand smoke in various regions of Pakistan from 1990 to 2019.

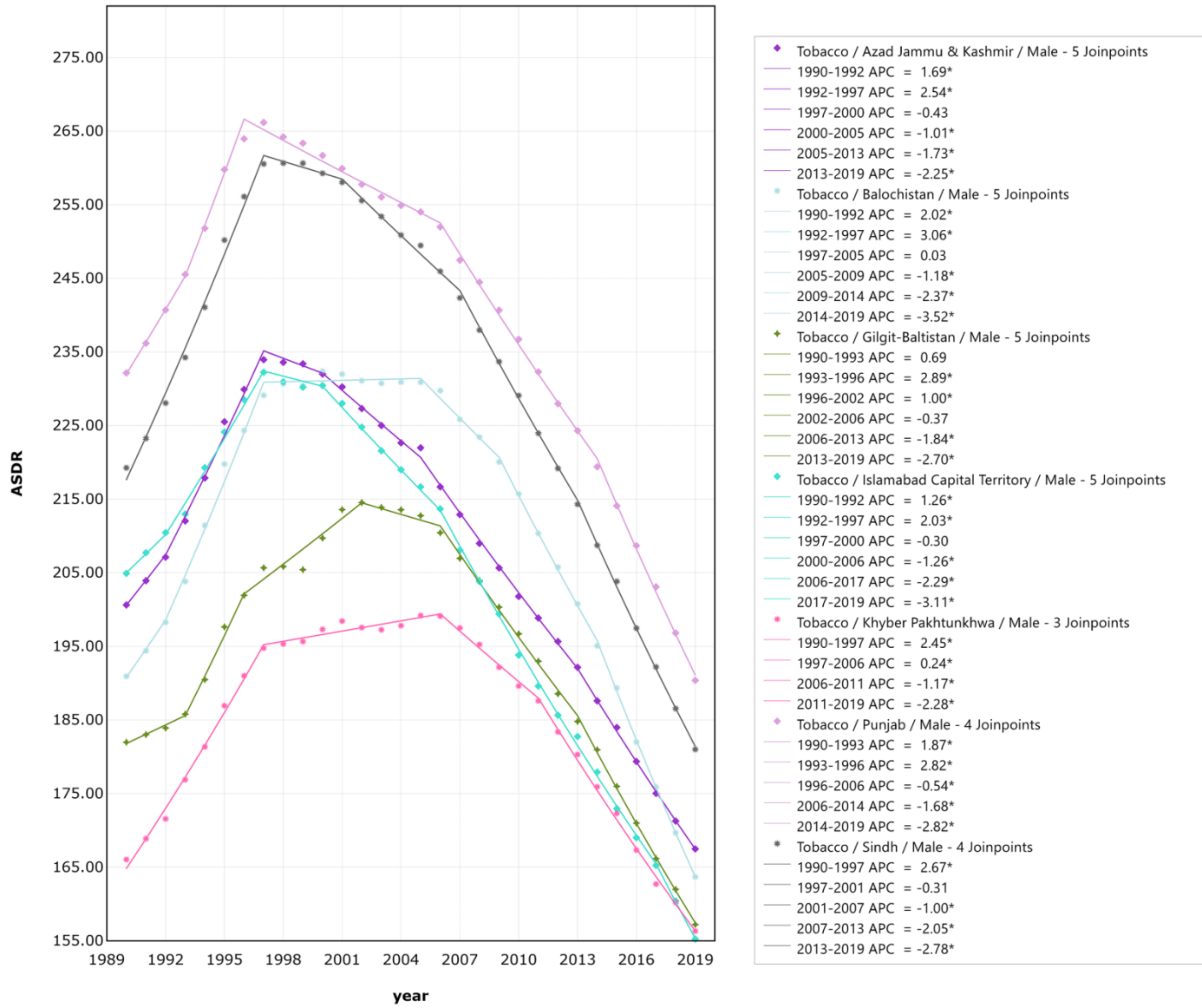
H. APC of ASMR in ischemic stroke caused by secondhand smoke among men in various regions of Pakistan from 1990 to 2019.

I. APC of ASMR in ischemic stroke caused by secondhand smoke among women in various regions of Pakistan from 1990 to 2019.

A

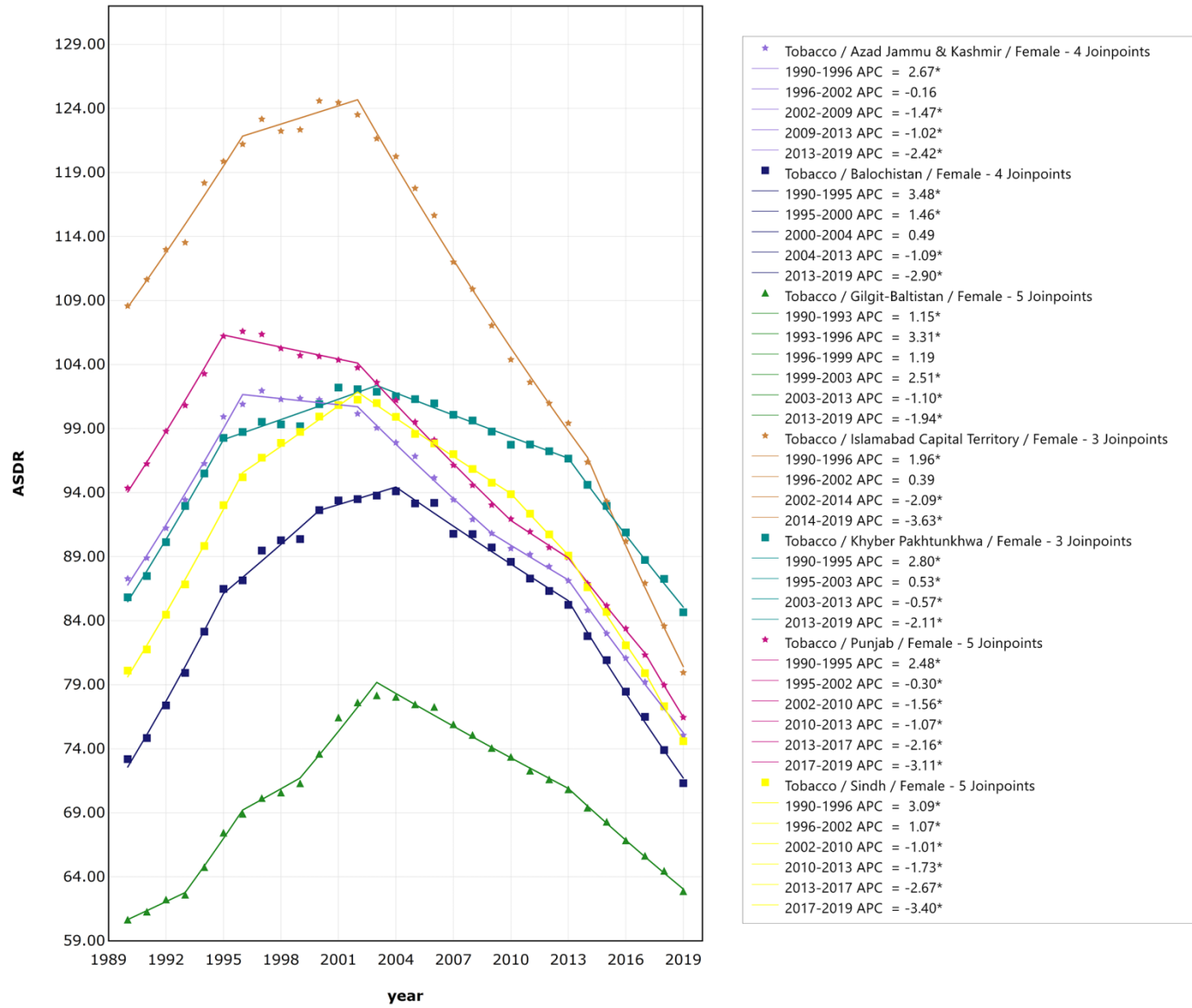
Multiple Joinpoint Models - Tobacco / Both



B**Multiple Joinpoint Models - Tobacco / Male**

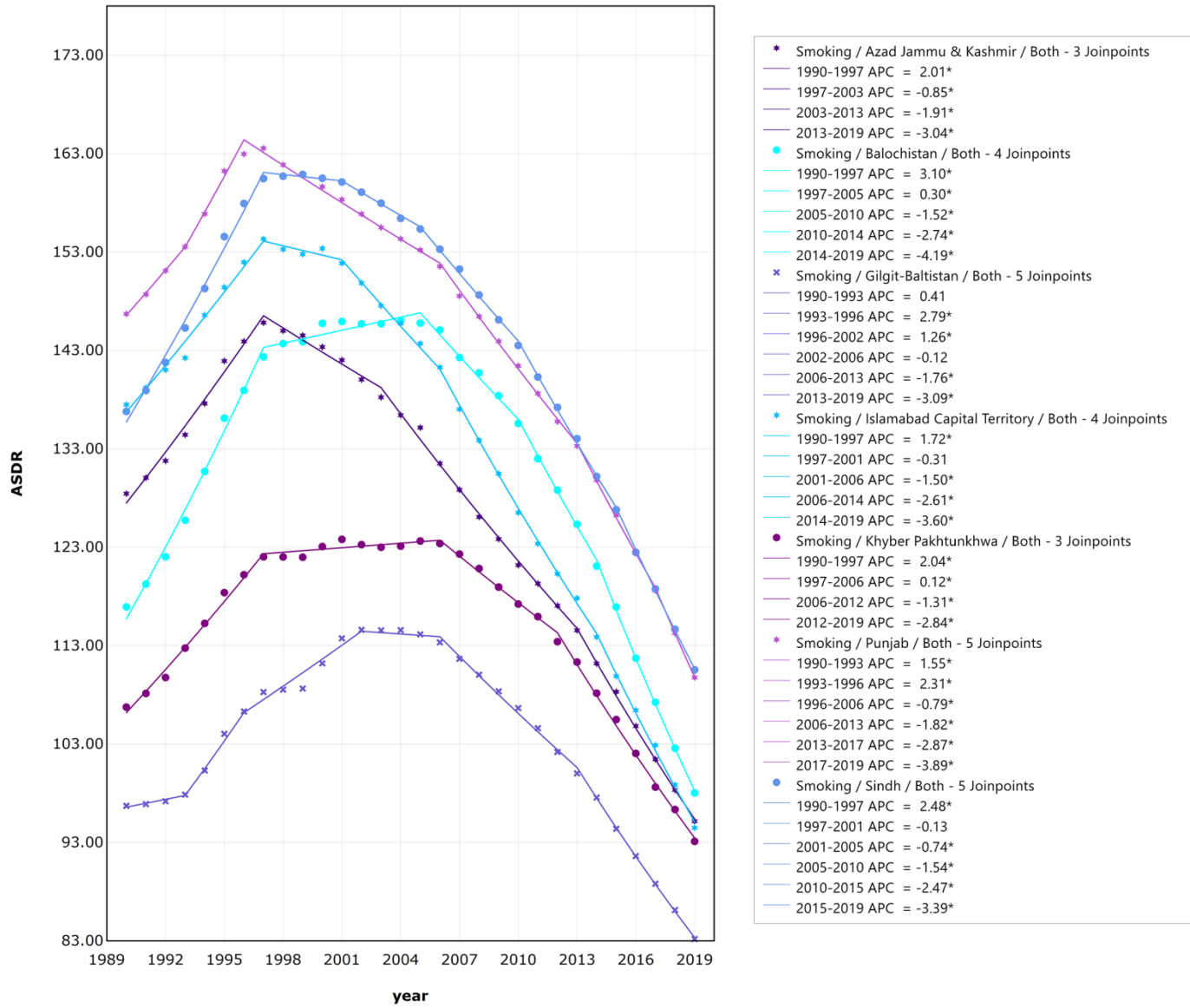
C

Multiple Joinpoint Models - Tobacco / Female



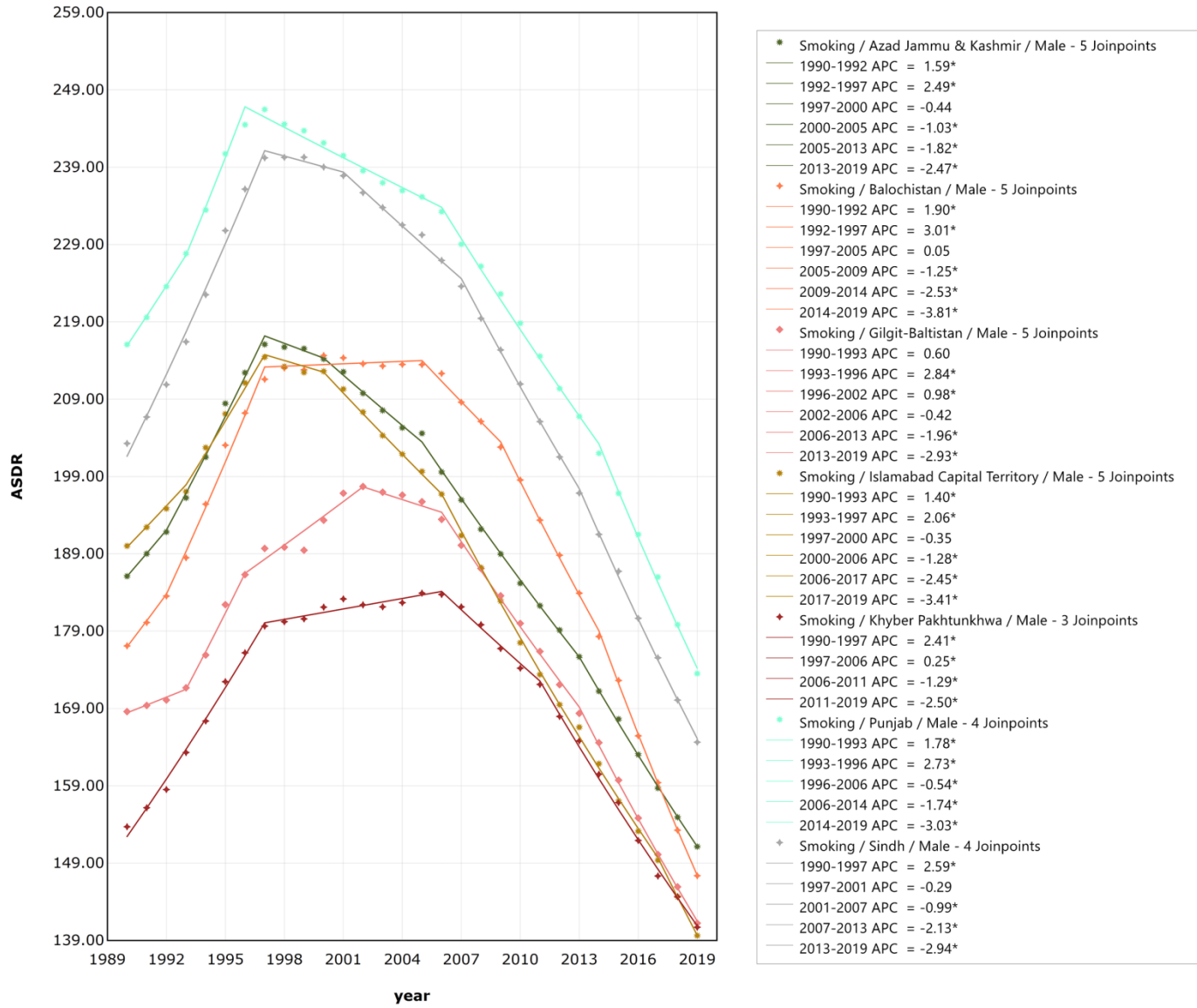
D

Multiple Joinpoint Models - Active smoking / Both



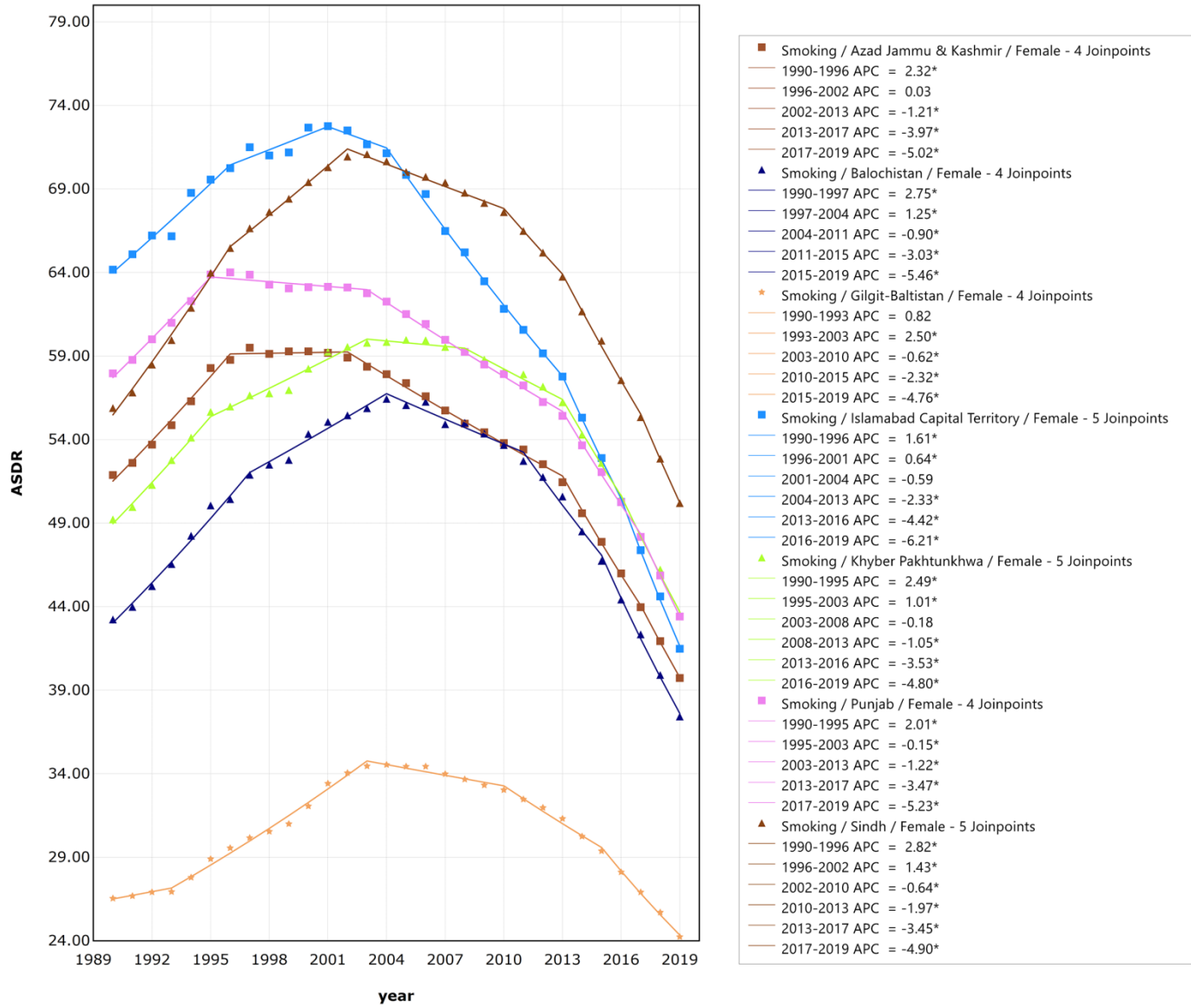
E

Multiple Joinpoint Models - Active smoking / Male



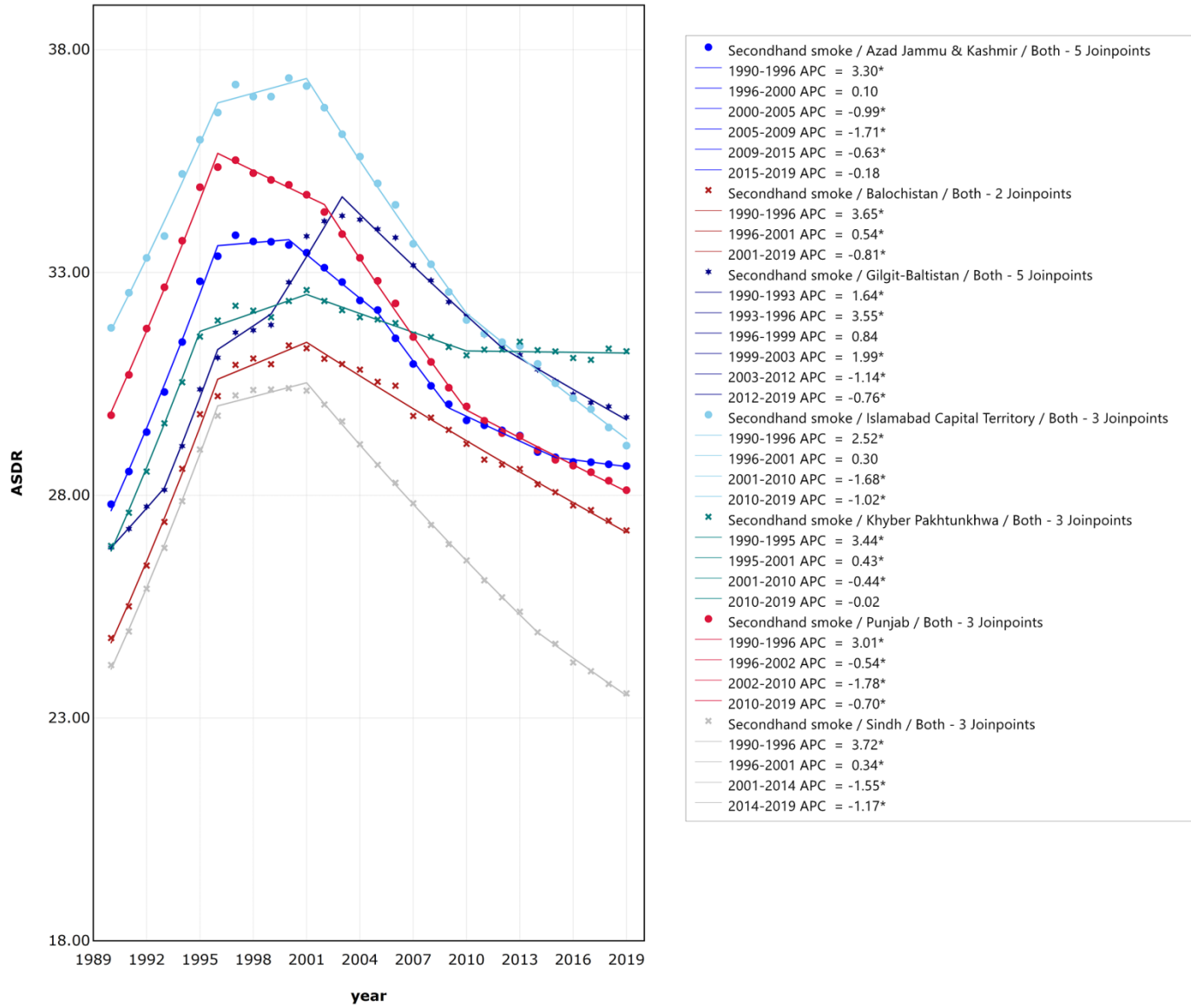
F

Multiple Joinpoint Models - Active smoking / Female



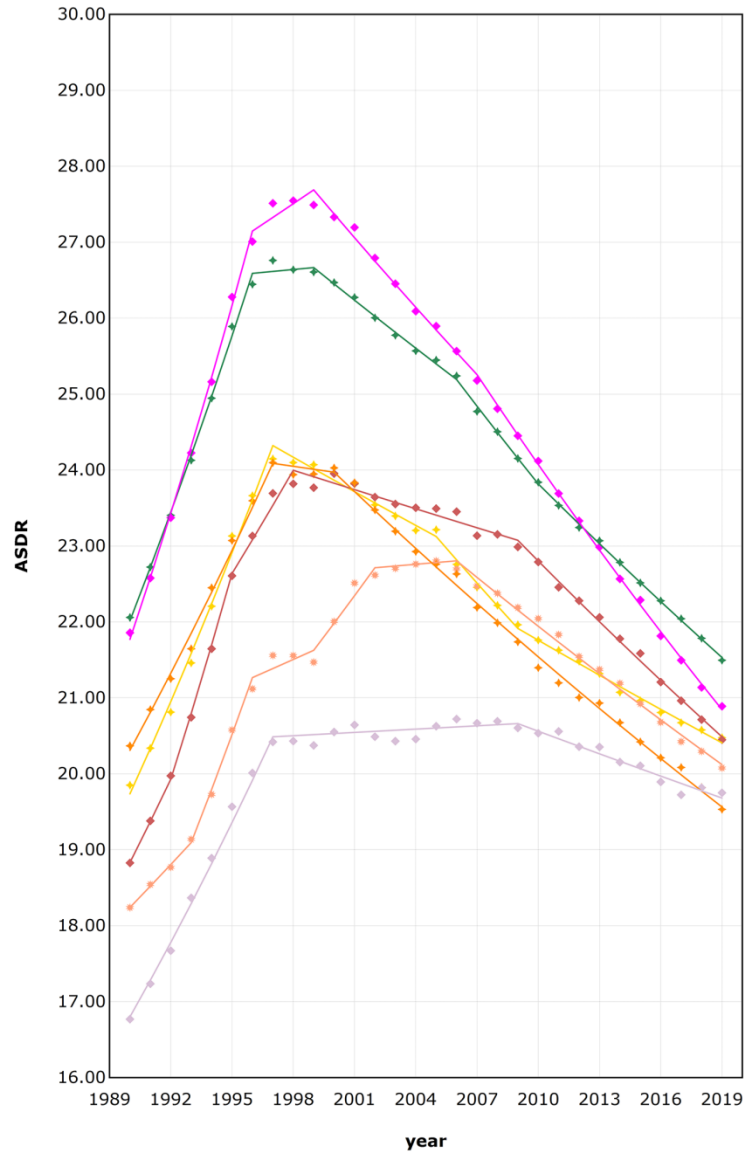
G

Multiple Joinpoint Models - Secondhand smoke / Both



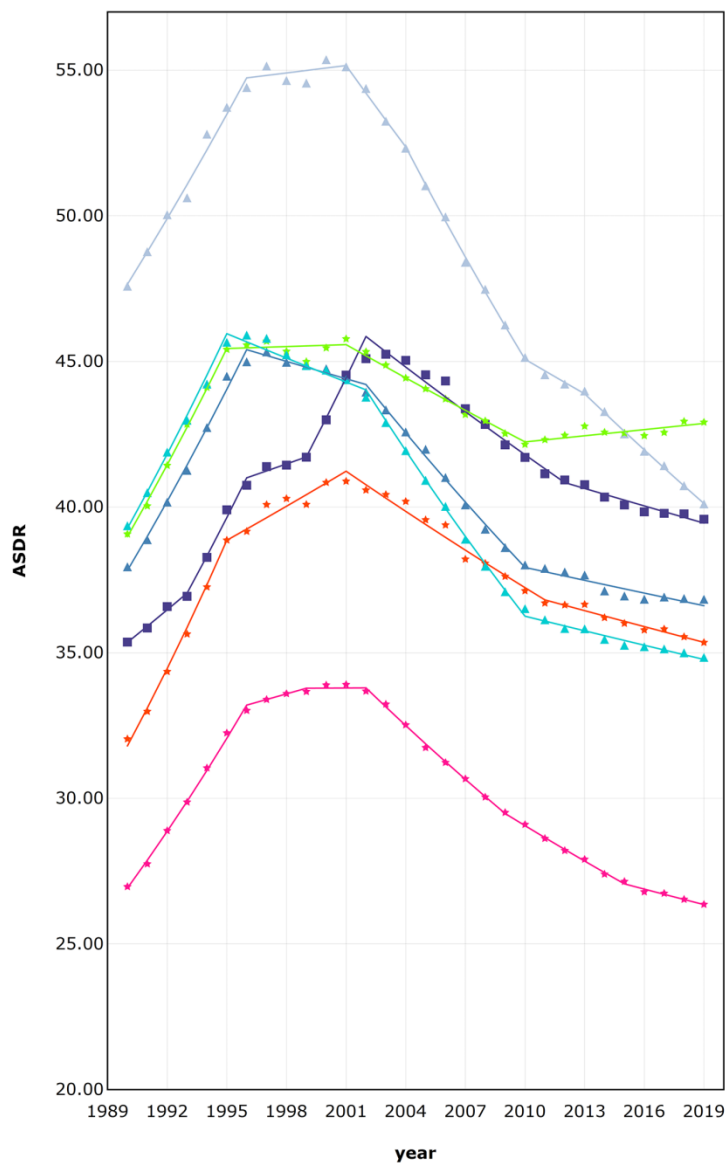
H

Multiple Joinpoint Models - Secondhand smoke / Male



- ◆ Secondhand smoke / Azad Jammu & Kashmir / Male - 3 Joinpoints
 - 1990-1997 APC = 3.03*
 - 1997-2005 APC = -0.63*
 - 2005-2009 APC = -1.34*
 - 2009-2019 APC = -0.71*
- ◆ Secondhand smoke / Balochistan / Male - 4 Joinpoints
 - 1990-1992 APC = 2.87*
 - 1992-1995 APC = 4.34*
 - 1995-1998 APC = 1.96*
 - 1998-2009 APC = -0.36*
 - 2009-2019 APC = -1.18*
- ◆ Secondhand smoke / Gilgit-Baltistan / Male - 5 Joinpoints
 - 1990-1993 APC = 1.54*
 - 1993-1996 APC = 3.66*
 - 1996-1999 APC = 0.56
 - 1999-2002 APC = 1.65*
 - 2002-2006 APC = 0.10
 - 2006-2019 APC = -0.96*
- ◆ Secondhand smoke / Islamabad Capital Territory / Male - 2 Joinpoints
 - 1990-1997 APC = 2.47*
 - 1997-2000 APC = -0.16
 - 2000-2019 APC = -1.06*
- ◆ Secondhand smoke / Khyber Pakhtunkhwa / Male - 2 Joinpoints
 - 1990-1997 APC = 2.88*
 - 1997-2009 APC = 0.07
 - 2009-2019 APC = -0.48*
- ◆ Secondhand smoke / Punjab / Male - 4 Joinpoints
 - 1990-1996 APC = 3.20*
 - 1996-1999 APC = 0.10
 - 1999-2006 APC = -0.81*
 - 2006-2010 APC = -1.39*
 - 2010-2019 APC = -1.11*
- ◆ Secondhand smoke / Sindh / Male - 3 Joinpoints
 - 1990-1996 APC = 3.75*
 - 1996-1999 APC = 0.66
 - 1999-2007 APC = -1.14*
 - 2007-2019 APC = -1.59*

Multiple Joinpoint Models - Secondhand smoke / Female



- ▲ Secondhand smoke / Azad Jammu & Kashmir / Female - 3 Joinpoints
 - 1990-1996 APC = 3.09*
 - 1996-2002 APC = -0.44*
 - 2002-2010 APC = -1.90*
 - 2010-2019 APC = -0.39*
- ★ Secondhand smoke / Balochistan / Female - 3 Joinpoints
 - 1990-1995 APC = 4.09*
 - 1995-2001 APC = 0.99*
 - 2001-2011 APC = -1.13*
 - 2011-2019 APC = -0.50*
- Secondhand smoke / Gilgit-Baltistan / Female - 5 Joinpoints
 - 1990-1993 APC = 1.57*
 - 1993-1996 APC = 3.44*
 - 1996-1999 APC = 0.58
 - 1999-2002 APC = 3.20*
 - 2002-2012 APC = -1.15*
 - 2012-2019 APC = -0.49*
- ▲ Secondhand smoke / Islamabad Capital Territory / Female - 5 Joinpoints
 - 1990-1996 APC = 2.34*
 - 1996-2001 APC = 0.15
 - 2001-2004 APC = -1.72*
 - 2004-2010 APC = -2.47*
 - 2010-2013 APC = -0.89
 - 2013-2019 APC = -1.48*
- ★ Secondhand smoke / Khyber Pakhtunkhwa / Female - 3 Joinpoints
 - 1990-1995 APC = 3.11*
 - 1995-2001 APC = 0.05
 - 2001-2010 APC = -0.84*
 - 2010-2019 APC = 0.17*
- ▲ Secondhand smoke / Punjab / Female - 3 Joinpoints
 - 1990-1995 APC = 3.19*
 - 1995-2002 APC = -0.61*
 - 2002-2010 APC = -2.40*
 - 2010-2019 APC = -0.46*
- ★ Secondhand smoke / Sindh / Female - 5 Joinpoints
 - 1990-1996 APC = 3.56*
 - 1996-1999 APC = 0.58
 - 1999-2002 APC = 0.01
 - 2002-2009 APC = -1.93*
 - 2009-2015 APC = -1.42*
 - 2015-2019 APC = -0.66*

Supplementary Figure 7. APC of ASDR in ischemic stroke due to tobacco use, active smoking and second-hand smoke by gender in various regions of Pakistan from 1990 to 2019.

A. APC of ASDR in ischemic stroke due to tobacco use in various regions of Pakistan from 1990 to 2019.

B. APC of ASDR in ischemic stroke caused by tobacco use among men in various regions of Pakistan from 1990 to 2019.

C. APC of ASDR in ischemic stroke caused by tobacco use among women in various regions of Pakistan from 1990 to 2019.

D. APC of ASDR in ischemic stroke due to active smoking in various regions of Pakistan from 1990 to 2019.

E. APC of ASDR in ischemic stroke caused by active smoking among men in various regions of Pakistan from 1990 to 2019.

F. APC of ASDR in ischemic stroke caused by active smoking among women in various regions of Pakistan from 1990 to 2019.

G. APC of ASDR in ischemic stroke due to secondhand smoke in various regions of Pakistan from 1990 to 2019.

H. APC of ASDR in ischemic stroke caused by secondhand smoke among men in various regions of Pakistan from 1990 to 2019.

I. APC of ASDR in ischemic stroke caused by secondhand smoke among women in various regions of Pakistan from 1990 to 2019.

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