

## Supplement 3: Prevalence of cigarette smokers

**Below is a brief summary of the policies referred in this supplement:**

**Status Quo (SQ):** including all existing tobacco control in Singapore as of 2017

**Minimum Legal Age (MLA):** raising the age at which smoking is legally allowed to 21 years old from 18 years old.

**Smoke Free Generation (SFG):** prohibiting those born after 2000 from ever smoking.

**E-cigarette Laissez-Faire (ELF):** legalizing e-cigarettes and allowing anyone aged 18 years or above to use e-cigarettes

**E-cigarette Prescription (EP):** only smokers are allowed to obtain e-cigarettes, under the prescriptions from medical doctors.

**E-cigarette 25 (E25):** only adults aged 25 years or above are allowed to buy and use e-cigarettes.

**TAX2 (TAX2):** raising tax on tobacco consumption once every 2 years for 10 times, by 10% each time.

**TAX5 (TAX5):** raising tax on tobacco consumption once every 5 years for 10 times, by 10% each time.

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**Note:**

*We ran the simulation 1000 times for each scenario. Each mean value presented in the tables below is calculated from the 1000 runs, and the corresponding 95% confidence interval (CI) is the CI for that mean value, i.e. representing uncertainty that could have been reduced with more simulations.*

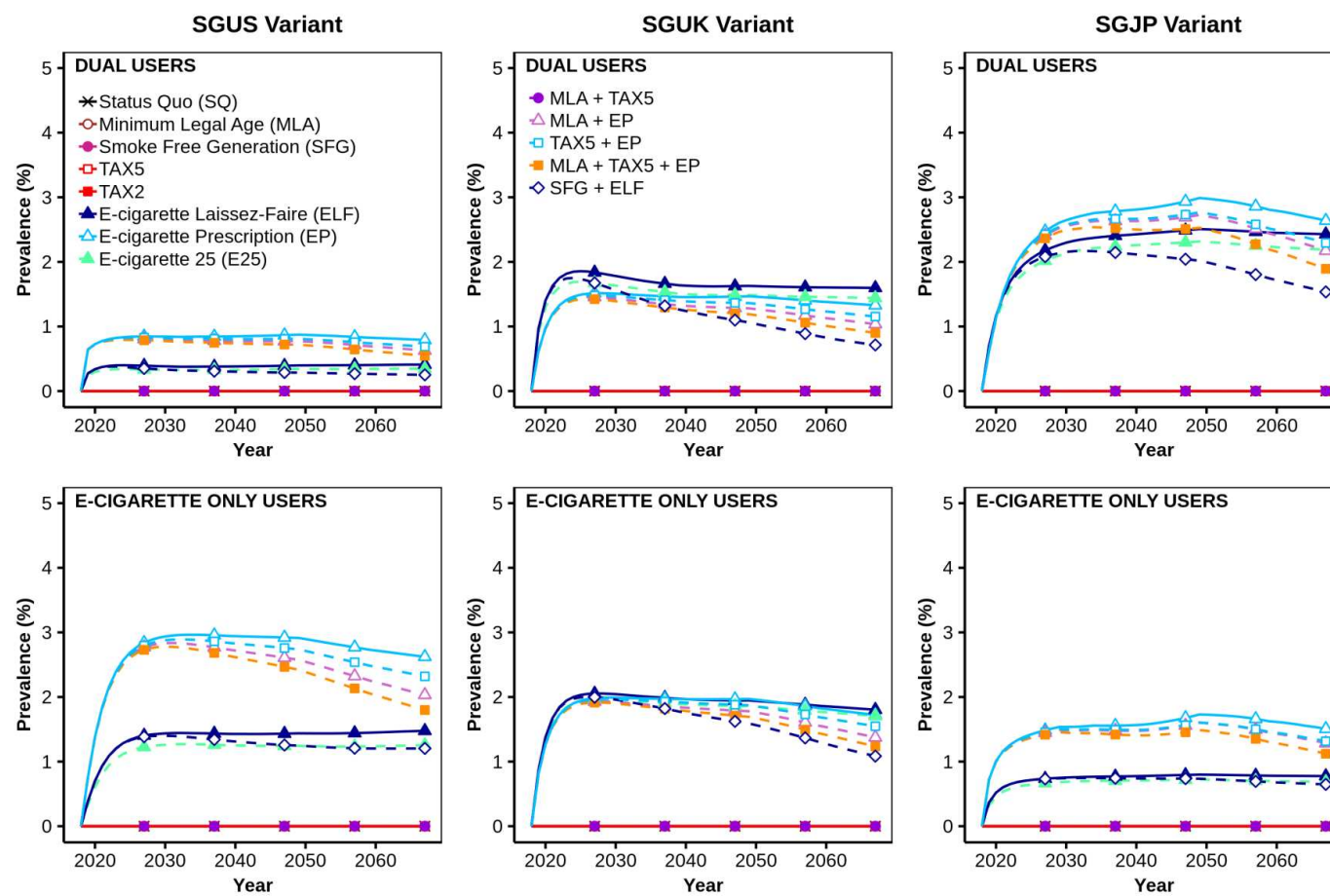


Figure S3 - 1: Prevalence of E-cigarette users and Dual users in the SGUS variant (left column), SGUK variant (middle column), and SGJP variant (right column)

**Table S3 - 1: Prevalence of cigarette users under the policies without e-cigarettes**

From the 2<sup>nd</sup> column, the numbers out of the bracket are the means, and the numbers inside the brackets are the corresponding 95% CI for the mean<sup>i</sup>

Year	Prevalence (%) of cigarette users under					
	SQ	MLA	SFG	TAX2	TAX5	MLA + TAX5
<b>2027</b>	14.4 (14.4, 14.5)	13.8 (13.8, 13.8)	13.3 (13.3, 13.3)	13.3 (13.2, 13.4)	14.0 (14.0, 14.0)	13.4 (13.4, 13.4)
<b>2037</b>	14.7 (14.7, 14.7)	13.5 (13.4, 13.5)	12.2 (12.2, 12.3)	11.6 (11.5, 11.7)	13.8 (13.7, 13.8)	12.6 (12.6, 12.7)
<b>2047</b>	15.0 (15.0, 15.0)	13.1 (13.1, 13.1)	10.9 (10.9, 10.9)	10.2 (10.0, 10.3)	13.4 (13.3, 13.5)	11.8 (11.7, 11.8)
<b>2057</b>	14.6 (14.6, 14.7)	12.0 (12.0, 12.1)	8.7 ( 8.7, 8.7)	8.9 ( 8.8, 9.1)	12.4 (12.3, 12.4)	10.2 (10.1, 10.3)
<b>2067</b>	14.2 (14.1, 14.2)	10.9 (10.8, 10.9)	6.2 ( 6.2, 6.2)	7.9 ( 7.7, 8.1)	11.2 (11.1, 11.3)	8.6 ( 8.5, 8.7)

**Table S3 - 2: Prevalence of Cigarette users including Dual users under the policies with e-cigarettes (SGUS variant)**

From the 2<sup>nd</sup> column, the numbers out of the bracket are the means, and the numbers inside the brackets are the corresponding 95% CI for the mean<sup>i</sup>

Year	Prevalence (%) of cigarette users under						
	ELF	EP	ELF25	MLA + EP	TAX5 + EP	MLA + TAX5 + EP	SFG + ELF
<b>2027</b>	14.0 (14.0, 14.1)	12.2 (12.2, 12.3)	14.0 (14.0, 14.0)	11.6 (11.6, 11.7)	12.0 (11.9, 12.0)	11.4 (11.3, 11.5)	13.0 (12.9, 13.0)
<b>2037</b>	14.2 (14.2, 14.3)	11.8 (11.7, 11.9)	14.2 (14.1, 14.2)	10.7 (10.6, 10.8)	11.3 (11.2, 11.4)	10.3 (10.2, 10.4)	12.1 (12.0, 12.1)
<b>2047</b>	14.7 (14.6, 14.7)	11.7 (11.6, 11.8)	14.5 (14.5, 14.6)	10.2 (10.1, 10.3)	10.9 (10.8, 11.0)	9.5 ( 9.4, 9.6)	11.3 (11.2, 11.4)
<b>2057</b>	14.5 (14.4, 14.6)	11.3 (11.2, 11.4)	14.3 (14.3, 14.4)	9.3 ( 9.2, 9.3)	10.1 (10.0, 10.2)	8.3 ( 8.2, 8.4)	9.8 ( 9.7, 9.8)
<b>2067</b>	14.4 (14.3, 14.5)	10.8 (10.7, 10.9)	14.1 (14.0, 14.2)	8.3 ( 8.2, 8.4)	9.3 ( 9.2, 9.4)	7.1 ( 7.0, 7.2)	8.1 ( 8.0, 8.2)

**Table S3 - 3: Prevalence of Cigarette users including Dual users under the policies with e-cigarettes (SGUK variant)**

From the 2<sup>nd</sup> column, the numbers out of the bracket are the means, and the numbers inside the brackets are the corresponding 95% CI for the mean<sup>i</sup>

Year	Prevalence (%) of cigarette users under						
	ELF	EP	ELF25	MLA + EP	TAX5 + EP	MLA + TAX5 + EP	SFG + ELF
<b>2027</b>	11.3 (11.2, 11.5)	12.2 (12.1, 12.3)	11.4 (11.3, 11.6)	11.6 (11.6, 11.7)	12.0 (11.9, 12.1)	11.4 (11.3, 11.5)	10.3 (10.2, 10.5)
<b>2037</b>	10.7 (10.6, 10.9)	11.6 (11.5, 11.8)	10.9 (10.7, 11.0)	10.6 (10.4, 10.7)	11.1 (11.0, 11.3)	10.1 (10.0, 10.3)	8.8 ( 8.7, 9.0)
<b>2047</b>	10.9 (10.7, 11.1)	11.5 (11.4, 11.7)	11.0 (10.9, 11.2)	10.0 ( 9.9, 10.2)	10.7 (10.6, 10.9)	9.3 ( 9.2, 9.5)	8.0 ( 7.9, 8.2)
<b>2057</b>	10.6 (10.5, 10.8)	11.1 (10.9, 11.2)	10.8 (10.6, 10.9)	9.1 ( 9.0, 9.2)	9.9 ( 9.8, 10.0)	8.1 ( 8.0, 8.3)	6.7 ( 6.6, 6.9)
<b>2067</b>	10.3 (10.2, 10.5)	10.6 (10.4, 10.7)	10.5 (10.3, 10.6)	8.1 ( 8.0, 8.2)	9.1 ( 8.9, 9.2)	7.0 ( 6.8, 7.1)	5.3 ( 5.2, 5.4)

**Table S3 - 4: Prevalence of Cigarette users including Dual users under the policies with e-cigarettes (SGJP variant)**

From the 2<sup>nd</sup> column, the numbers out of the bracket are the means, and the numbers inside the brackets are the corresponding 95% CI for the mean<sup>i</sup>

Year	Prevalence (%) of cigarette users under						
	ELF	EP	ELF25	MLA + EP	TAX5 + EP	MLA + TAX5 + EP	SFG + ELF
<b>2027</b>	13.4 (13.2, 13.6)	12.9 (12.6, 13.2)	13.4 (13.2, 13.6)	12.3 (12.0, 12.5)	12.5 (12.3, 12.8)	11.9 (11.7, 12.2)	12.4 (12.1, 12.6)
<b>2037</b>	13.2 (12.9, 13.6)	12.5 (12.1, 12.9)	13.2 (12.9, 13.5)	11.4 (11.0, 11.7)	11.8 (11.4, 12.1)	10.8 (10.4, 11.1)	11.2 (10.9, 11.5)
<b>2047</b>	13.6 (13.2, 14.0)	12.4 (12.0, 12.8)	13.5 (13.1, 13.8)	10.9 (10.5, 11.2)	11.4 (11.0, 11.8)	10.0 ( 9.6, 10.3)	10.4 (10.0, 10.8)
<b>2057</b>	13.5 (13.0, 13.9)	11.9 (11.5, 12.3)	13.3 (12.9, 13.6)	9.8 ( 9.5, 10.1)	10.5 (10.2, 10.9)	8.7 ( 8.4, 9.0)	9.0 ( 8.6, 9.4)
<b>2067</b>	13.3 (12.8, 13.7)	11.4 (11.0, 11.8)	13.0 (12.6, 13.4)	8.7 ( 8.4, 9.0)	9.6 ( 9.3, 10.0)	7.4 ( 7.1, 7.7)	7.5 ( 7.1, 7.9)

<sup>i</sup> We ran the simulation 1000 times for each scenario. Each mean value presented in the tables is calculated from the 1000 runs, and the corresponding 95% confidence interval (CI) is the CI for that mean value, i.e. representing uncertainty that could have been reduced with more simulations