

Supplemental Materials: Appendix A

The prevalence of dual tobacco use and its definition across two dimensions, tobacco products used and frequency of use.

Study/year/Country	Population	Survey	Prevalence %	Definition/ Terminology	Definition of Dual Tobacco Use across Two Dimensions	
					Substance	Frequency of dual use
*Skander/1989/ Algeria	Adult males ≥ 18 years old	Representative sample of men and women in Algeria	13.4	Use both	Cig + ST	Current use of Cig and ST
Lando/1999/US	Adults	Population of Air Force Basic Military Training (BMT) recruits	1.28	Poly use	Cig + ST	Current use of Cig and ST up to basic military training (BMT)
*Spangler/1999/US	Adults ≥ 18 years old	Telephone survey among Lumbee Indians in North Carolina	17.3	Dual use	Cig + ST	Ever use of Cig and ST
Horn/2000/US	Adolescents 9 th graders	The Year 2000 Youth Tobacco Assessment (Y2YTA) in rural West Virginia	10	Conjoint use	Cig + ST	<u>Current Cig use:</u> occasionally ^a or everyday <u>Current ST use:</u> occasionally ^a or everyday
Spangler/2001/US	Adults (Native American)	Telephone survey among Lumbee Indians in North Carolina	4.8	Dual use	Cig + ST	<u>Current Cig use:</u> ever smoke ^b + now <u>Current ST use:</u> used ST in past 30 days + now
Tomar/2002/US	Adult males ≥ 18 years old	The National Health Interview Survey	1.1	Concurrent use	Cig + ST	<u>Current Cig use:</u> ever smoke ^b + smoke every day or some days <u>Current ST use:</u> ever use ^c + use every day or some days
Wetter/2002/US	Adult males ≥ 18 years old	Employed adults residing in the southeastern US who participated in the Working Well Cancer Prevention trial	4	Concomitant use	Cig + ST	<u>Current Cig use:</u> ever smoke ^b + smoke in past 7 days <u>Current ST use:</u> (no more details)

Rodu/2002/SW	Adults 25-64 years old	The Northern Sweden MONICA Study	1986: 4/0 ^d 1990: 5/1 ^d 1994: 4/1 ^d 1999: 3/1 ^d	Combined use	Cig + ST	<u>Daily Cig use</u> : at least one cigarette per day <u>Daily ST use</u> : use any amount each day
Wickholm/2003/SW	Adolescent males 9 th grade	A census survey in the Stockholm region	13.8	Combined user	Cig + ST	<u>Current use of Cig and ST</u> : Daily/almost daily/only on weekend or parties
Post/2005/SW	Adolescents 11-18 years old	The BROMS (Children's Smoking and Environment in the Stockholm County) Study	14.2	Mixed user	Cig + ST	<u>Current monthly use of Cig and ST</u> : at least once per month
Mumford 2005/US	Adult males ≥ 25 years old	The 1992–2002 Tobacco Use Supplements (CPS-TUS) from 1992–2002	1992/93: 1.0 2001/02: 0.9	Concurrent use	Cig + ST	<u>Current Cig use</u> : ever smoke ^b + smoke every day or some days <u>Current ST use</u> : ever use + use in past 30 days
Mumford/2006/US	Adults ≥ 18 years old	The 1992–2002 Tobacco Use Supplements (CPS-TUS) from 1992–2002	1992/93: 0.49 1995/96: 0.45 1998: 0.36 1999: 0.40 2000: 0.32 2001/02: 0.28	Concurrent use	Cig + ST	<u>Current Cig use</u> : ever smoke ^b + smoke every day or some days <u>Current ST use</u> : used at least 10 days of the past 30 days
Croucher/2007/UK	Adult males ≥ 18 years old	A cross-sectional bilingual interview survey among resident Bangladeshi in UK	22	Concurrent use	Cig + ST	Daily use of Cig and ST in last 6 months
Galanti/2008/SW	Adolescents 11-18 years old	The BROMS (Children's Smoking and Environment in the Stockholm County) Study	19.3	Mixed user	Cig + ST	Weekly use for at least three months in a row for both Cig and ST

Rodu/2009/US	Adult males ≥ 18 years old	US National Health Interview Survey from 2000 and 2005	2000: 1.2 2005: 1.4	Dual use	Cig + ST	<u>Current cig use:</u> ever smoke ^b + smoke every day or some days <u>Current ST use:</u> ever use ^c + use every day or some days
Digard/2009/SW	Adults ≥ 18 years old	Telephone surveys of randomly selected numbers in all regions of Sweden in 2007/08.	9.8	Dual use	Cig + ST	Daily ST use + smoke cigarettes daily or occasionally
Post /2010/SW	Adolescents 11-18 years old	The BROMS (Children's Smoking and Environment in the Stockholm County) Study	28.2 ^e 6.9 ^f	Dual use	Cig + ST	<u>Current monthly use of Cig and ST:</u> at least once per month
Everett/2000/US	Adolescents High school student	1997 National Youth Risk Behavior Survey, CDC	19.5	Use more than one tobacco product	Cig/ST/Cigar	<u>Current use of more than one tobacco product:</u> use tobacco products in past 30 days (any number other than zero considered current use)
Rigotti/2000/US	Adult college students 18- 24 years old	The Harvard College Alcohol Survey	58.2 ^e 27.5 ^f	Combination of tobacco use	Cig/ST/Cigar/Pipe	<u>Current use more than one tobacco product :</u> use more than one tobacco product in past year
Chao/2002/US	Adult males ≥ 18 years old	Prospective Mortality Study in the USA	17	Use more than one type of tobacco	Cig/ST/Cigar/Pipe	<u>Current use of more than one tobacco product:</u> use at enrollment
^g Backinger/2008/US	Adults ≥ 18 years old	Tobacco Use Supplements to the Current Population Survey (TUS-CPS), 1995/96/98, 2000/01/02	1.21 ^h 0.89 ^j 0.32 ^k	Concurrent use	Cig/ST/Cigar/Pipe	<u>Current cig use:</u> ever smoke ^b + smoke every day or some days <u>Daily cig use:</u> every day <u>Intermittent cig use:</u> some days <u>Current use of other tobacco product:</u> use at the time of interview
Gilpin/2003/US	Adolescents 12-17 years	The 1999 California Tobacco Survey	14.5	Use more than one tobacco	Cig/ST/Cigar/Bidis	<u>Current use of more than one tobacco product:</u> smoke or use any tobacco products in the 30 days (any

	old			product		number other than zero considered current use)
Bombard/2007/US	Adults ≥ 18 years old	Behavioral Risk Factor Surveillance System (BRFSS) in 10 states	3.4	Poly tobacco use	Cig/ST/Cigar/Pipe/ Bidis	<u>Current Cig use:</u> ever smoke ^b + smoke every day or some days <u>Current other tobacco product use:</u> ever use + use every day or some days
Tercyak/2002/US	Adolescents 9 th graders	School-based self-report survey	18 ^l 13 ^m	Use more than one tobacco product	Cig/ST/Cigar/Pipe/ Bidis/Kreteks	<u>Current use of more than one tobacco product:</u> use tobacco products in past 30 days (any number other than zero considered current use)
Bombard/2008/US	Adolescents Grades 6- 12	National Youth Tobacco Surveys from 2002/04	6.9	Poly tobacco use	Cig/ST/Cigar/Pipe/ Bidis/Kretek	<u>Current cig use:</u> smoked during past 30 days <u>Current other tobacco product use:</u> use during past 30 days

(Cig) Cigarettes; (ST) Smokeless Tobacco; *Available only by abstract; (US) United State; (SW) Sweden; (UK) United Kingdom.

^aEverything other than every day; ^bEver cigarette smoking defined as smoked at least 100 cigs in lifetime; ^cEver ST use defined as used at least 20 times in lifetime; ^dFirst value is for males and second value is for females; ^eAmong males; ^fAmong females; ^gReport 3 values for dual use prevalence according to frequency of cig use; ^hCurrent cig use + use other tobacco product at the time of interview; ⁱDaily cig use + use other tobacco product at the time of interview; ^kIntermittently cig use + use other tobacco product at the time of interview; ^lUse 2 products; ^mUse 3 or more products.