

Supplementary Table: Effect Direction Plot

Ordered by PROGRESS Plus sub-group criteria, and then grouped by evidence quality

Key: ● = outcome reported, statistically significant difference found; ○ = outcome reported, no statistically significant difference found;

○ = outcome reported, no indication of any test for statistical significance; [blank box] = outcome not studied

Lead Author	Country	Evidence Quality	Sample	Aware	Ever use	Current Use	Key findings
PLACE OF RESIDENCE							
Pepper 2013 (1)	USA	H	421 male adolescents	○			
Adkison 2013 (2)	UK, USA, Canada, Australia	M	5,939 adult smokers	●	●	○	USA & UK > Australia & Canada (awareness); USA & UK > Canada (ever use); USA > Australia (ever use)
Gallus 2014 (3)	Italy	M	3,000 adults	●	○	●	Northern Italy & Central Italy > Southern Italy (awareness); Southern Italy > Central Italy (current use)
Giovenco 2014 (4)	USA	M	2,136 current/recent smokers		○	○	
Goniewicz 2012 (5)	Poland	M	20,240 high school/uni students		●	●	Urban > rural
King 2014 (6)	USA	M	14,758 adults	○	○	○	
Lee 2014 (7)	South Korea	M	75,643 high school students			●	City & metropolitan city > province
Tan 2014 (8)	USA	M	9,080 adults	○			
Vardavas 2014 (9)	EU member states	M	26,566 adults	●	●		Individual countries: various international differences (awareness & ever use); Large towns > rural (ever use); North & East Europe > West Europe (ever use)
Agaku 2014 (10)	EU member states	L	Adults in 25 countries			●	Individual countries: various international differences ^a
Agaku 2014 (11)	USA	L	60,192 adults			○	
Douptcheva 2013 (12)	Switzerland	L	5,081 men		●		German region > French region ^b
McMillen 2012 (13)	USA	L	3,240 adults		○		
Pepper 2014 (14)	USA	L	17,522 adults	○			
Popova 2013 (15)	USA	L	7,776 adult current/recent smokers		○		
Regan 2013 (16)	USA	L	41,240 adults	○	○	○	
RACE / ETHNICITY							
Kasza 2013 (17)	USA	H	6,110 adult smokers		○		
Pearson 2012 (18)	USA	H	19,026 adult smokers	●	●		White > African American
Pepper 2013 (1)	USA	H	421 male adolescents	●			Other races > Hispanic
Adkison 2013 (2)	UK, USA, Canada, Australia	M	5,939 adult smokers	●	○	○	White/English > Non-white/Non-English ^c

Lead Author	Country	Quality Evidence	Sample	Aware	Ever use	Current Use	Key findings
Amrock 2014 (19)	USA	M	24,658 high school students	●	●	●	White, Mixed/Multiple race > Black (awareness); Hispanic > Asian (ever & current use) ^d
Emery 2014 (20)	USA	M	17,522 adults	●			White > Hispanic, Other
Giovenco 2014 (4)	USA	M	2,136 adult current/recent smokers		●	○	White > Other races (ever use) ^e
King 2014 (6)	USA	M	14,758 adults	●	○	●	White > Black (awareness); White > Hispanic (current use) ^f
Lippert 2014 (21)	USA	M	15,264 adolescents		●		Other races > Black, Mexican-American
Richardson 2014 (22)	USA	M	1,487 adult current/former smokers		●		White > Hispanic
Tan 2014 (8)	USA	M	9,080 adults	●			White > Hispanic
Agaku 2014 (11)	USA	L	60,192 adults			●	'Other, Non-Hispanic', White > Other races ^{d,g}
Camenga 2014 (23)	Connecticut & NY, USA	L	3,102 high school students			○	
Camenga 2014 (24)	Connecticut & NY, USA	L	4,766 high school students			●	Mixed results
Choi 2013 (25)	Minnesota, USA	L	2,624 adults	○	○		
Czoli 2014 (26)	Canada	L	1,188 young adults		○	○	
Grana 2014 (27)	USA	L	1,549 adult smokers			○	
Hayes 2014 (28)	USA	L	2,376 adult smokers			○	
Hyland 2013 (29)	New York, USA	L	2 schools		○	○	
Li 2013 (30) ^h	New Zealand	L	840 adult current/recent smokers		○		
McMillen 2012 (13)	USA	L	3,240 adults		○		
Pokhrel 2014 (31)	Hawaii, USA	L	307 undergrad students		●	●	Filipino > White
Pokhrel 2013 (32)	Hawaii, USA	L	1,685 adult smokers		●		White > Native Hawaiian
Popova 2013 (15)	USA	L	7,776 adult current/recent smokers		●		Asian > White
Regan 2013 (16)	USA	L	41,240 adults	●	○	○	White > African, Hispanic
Sherratt 2014 (33)	Liverpool, England	L	256 adult smokers			○	
Sutfin 2013 (34)	North Carolina, USA	L	4,857 undergrad students		●		Hispanic, Other > White
Vickerman 2013 (35)	USA	L	7,966 adult smokers		●		White > Other races
OCCUPATION							
EU 2012 (36)	27 EU member states	L	26,751 adults	○			
GENDER							
CHETS 2014 (37)	Wales	H	1,601 children		○		
Kasza 2013 (17)	USA	H	6,110 adult smokers		○		
Pearson 2012 (18)	USA	H	19,026 adult smokers	●			Men > Women
Pepper 2013 (1)	USA	H	421 male adolescents	○			
Adkison 2013 (2)	UK, USA, Canada, Australia	M	5,939 adult smokers	●	○	○	Men > Women ^c
Amrock 2014 (19)	USA	M	24,658 high school students	○	●	●	Men > Women ^d
Emery 2014 (20)	USA	M	17,522 adults	●			Men > Women
Gallus 2014 (3)	Italy	M	3,000 adults	●	○	○	Men > Women
Giovenco 2014 (4)	USA	M	2,136 adult current/recent smokers		○	○	

Lead Author	Country	Quality Evidence	Sample	Aware	Ever use	Current Use	Key findings
Goniewicz 2012 (5)	Poland	M	20,240 high school/uni students		●	●	Males > Females
King 2014 (6)	USA	M	14,758 adults	○	●	●	Women > Men ^f
Lee 2014 (7)	South Korea	M	79,202 high school students			●	Males > Females
Lippert 2014 (21)	USA	M	15,264 adolescents		●		Men > Women
Richardson 2014 (22)	USA	M	1,487 adult current/former smokers		●		Men > Women
Tan 2014 (8)	USA	M	9,080 adults	○			
Vardavas 2014 (9)	EU member states	M	26,566 adults		○		
Agaku 2014 (11)	USA	L	60,192 adults			●	Men > Women ^{d,g}
Agaku 2014 (10)	Multiple countries	L	Adults in 25 countries			●	Mixed results in different countries ^a
ASH Wales 2014 (38)	Wales	L	740 adolescents	○	○	○	
Biener 2013 (39)	USA	L	5,150 adults		○	○	
Brown 2014 (40)	UK	L	4,117 adult smokers		○		
Camenga 2014 (23)	USA	L	3,102 high school students			○	
Cho 2011 (41)	Seoul, South Korea	L	4,341 middle/high school students		●		Males > Females
Choi 2013 (25)	Minnesota, USA	L	2,624 adults	●	●		Men > Women
Czoli 2014 (26)	Canada	L	1,188 young adults		○	○	
Dautzenberg 2013 (42)	Paris, France	L	3,409 high school students		○		
Dockrell 2013 (43)	UK	L	12,432 adults		○	○	
EU 2012 (36)	27 EU member states	L	26,751 adults	○			
Grana 2014 (27)	USA	L	1,549 current/recent smokers			●	Women > Men ⁱ
Hyland 2013 (29)	New York, USA	L	2 schools		○	○	
Kinnunen 2013 (44)	Finland	L	3,535 adolescents	○	○		
Kralikova 2013 (45)	Czech Republic	L	1,738 smokers		●	●	Men > Women
Krishnan-Sarin 2014 (46)	Connecticut, USA	L	4,780 middle/high school students		●		Males > Females
Kvaavik 2014 (47)	Norway	L	629 adult current/former smokers			●	Men > Women ^j
Li 2013 (30) ^h	New Zealand	L	840 adult current/recent smokers		○		
Martinez-Sanchez 2014 (48)	Barcelona, Spain	L	1,291 adults		○	○	
McMillen 2012 (13)	USA	L	3,240 adults		○		
Pearson 2011 (49)	USA	L	3,638 adults	●	●		Men > Women
Pokhrel 2014 (31)	Hawaii, USA	L	307 undergrad students		○		
Pokhrel 2013 (32)	Hawaii, USA	L	1,685 adult smokers		○		
Popova 2014 (15)	USA	L	7,776 adult current/recent smokers		●		Women > Men
Regan 2013 (16)	USA	L	41,240 adults	●	●	○	Men > Women (aware); Women > Men (ever use)
Sherratt 2014 (33)	Liverpool, England	L	256 adult smokers			●	Females > Men
Sochor 2014 (50)	Brno city, Czech Rep	L	966 adults			●	Men > Women
Stillman 2014 (51)	USA	L	723 flight attendants			●	Men > Women ^k

Lead Author	Country	Quality Evidence	Sample	Aware	Ever use	Current Use	Key findings
Sutfin 2013 (34)	North Carolina, USA	L	4,857 undergrad students		●		Men > Women
Vickerman 2013 (35)	6 states, USA	L	7,966 adult smokers		○		
WHO 2013 (52)	Qatar	L	8,398 adults	○	○	○	
EDUCATION LEVEL							
Kasza 2013 (17)	USA	H	6,110 adult smokers		●		Intermediate > lower education
Pearson 2012 (18)	USA	H	19,026 adult smokers		●		Higher > lower education
Pepper 2013 (1)	USA	H	421 male adolescents	○			
Gallus 2014 (3)	Italy	M	3,000 adults	●	●	○	Higher > lower education (aware); Intermediate > lower education (ever use)
Adkison 2013 (2)	UK, USA, Canada, Australia	M	5,939 adult smokers	●	○	●	Higher > lower education ^c
Emery 2014 (20)	USA	M	17,522 adults	●			Higher > lower education
Giovenco 2014 (4)	USA	M	2,136 adult current/recent smokers		○	○	
King 2014 (6)	USA	M	14,758 adults	○	○	●	Less than high school > High school ^f
Richardson 2014 (22)	USA	M	1487 adult current/former smokers		○		
Tan 2014 (8)	USA	M	9,080 adults	●			Higher > lower education
Agaku 2014 (11)	USA	L	60,192 adults			●	Lower > higher education ^{d,g}
Choi 2013 (25)	Minnesota, USA	L	2,624 adults	●	○		Higher > lower education
Czoli 2014 (26)	Canada	L	1,188 young adults		●	●	Lower > higher education (ever use); Higher > lower education (current use)
Douptcheva 2013 (12)	Switzerland	L	5,081 men		●		Secondary > tertiary or primary ^b
Grana 2014 (27)	USA	L	1,549 smokers			●	Lower > higher education
Li 2013 (30) ^h	New Zealand	L	840 adult current/recent smokers		○		
Martinez-Sanchez 2014 (48)	Barcelona, Spain	L	1,291 adults		○	○	
McMillen 2012 (13)	USA	L	3,240 adults		●		Intermediate > lower education
Pearson 2011 (49)	USA	L	3,638 adults	●	●		Higher > lower education
Pokhrel 2013 (32)	Hawaii, USA	L	1,685 adult smokers		○		
Popova 2013 (15)	USA	L	7,776 adult current/recent smokers		○	●	Intermediate > higher education
Regan 2013 (16)	USA	L	41,240 adults	●	●	●	Higher > lower education (aware); Lower > higher education (ever & current use)
Sherratt 2014 (33)	Liverpool, England	L	256 adult smokers			○	
Sochor 2014 (50)	Brno city, Czech Republic	L	966 adults			○	
Stillman 2014 (51)	USA	L	723 flight attendants			○	
Vickerman 2013 (35)	USA	L	7,966 adult smokers		●		Higher > lower education
SOCIOECONOMIC STATUS							
CHETS 2014 (37)	Wales	H	1,601 children		○		
Kasza 2013 (17)	USA	H	6,110 adult smokers		○		
Adkison 2013 (2)	UK, USA, Canada, Australia	M	5,939 adult smokers	●	●	○	Higher > lower income ^c
Emery 2014 (20)	USA	M	17,522 adults	○			
Lippert 2014 (21)	USA	M	15,264 adolescents		○		
Lee 2014 (7)	South Korea	M	79,202 high school students			●	Higher > lower weekly allowance

Lead Author	Country	Quality Evidence	Sample	Aware	Ever use	Current Use	Key findings
Richardson 2014 (22)	USA	M	1,487 adult current/former smokers		○		
Tan 2014 (8)	USA	M	9,080 adults	○			
Vardavas 2014 (9)	EU member states	M	26,566 adults		○		
Agaku 2014 (11)	USA	L	60,192 adults			●	Lower > higher income ^{d,g}
Brown 2014 (40)	UK	L	4,117 adult smokers		●		Higher > lower SES ⁱ
Dockrell 2013 (43)	UK	L	12,432 adults		○	○	
Douptcheva 2013 (12) ^b	Switzerland	L	5,081 men		○		
King 2013 (53)	USA	L	10,739 adults	○	○		
Kinnunen 2013 (44)	Finland	L	3,535 adolescents		●		Mixed results
Li 2013 (30)	New Zealand	L	840 adult current/recent smokers		●		Higher > lower income ^h
Pokhrel 2014 (31)	Hawaii, USA	L	307 adult current/former/never smokers		○		
Pokhrel 2013 (32)	Hawaii, USA	L	1,685 adult smokers		○		
Popova 2013 (15)	USA	L	7,776 adult current/recent smokers		○	●	Lower > higher income
Regan 2013 (16)	USA	L	41,240 adults	○	●	○	Mixed results
Sochor 2014 (50)	Brno city, Czech Republic	L	966 adults			○	
Sutfin 2013 (34)	North Carolina, USA	L	4,857 undergrad students		○		
Vickerman 2013 (35)	USA	L	7,966 adult smokers		●		Mixed results
DISABILITY OR HEALTH STATUS							
Pearson 2012 (18)	USA	H	19,026 adult smokers		●		Better > worse self-reported health status
Richardson 2014 (22)	USA	M	1,487 adult current/former smokers		○		
Tan 2014 (8)	USA	M	9,080 adults	○			
Hayes 2014 (28)	USA	L	2,376 adult smokers			●	Medical illnesses, depressed mood, alcohol use > absence of these
SEXUAL ORIENTATION							
Emery 2014 (20)	USA	M	17,522 adults	○			
Agaku 2014 (11)	USA	L	60,192 adults			●	Lesbian, gay or bisexual > heterosexual & unspecified ^{d,g}
AGE							
Kasza 2013 (17)	USA	H	6,110 adult smokers		●		18-24yo > 40yo+
Pearson 2012 (18)	USA	H	19,026 adult smokers	●	●		Younger > Older adults
Pepper 2013 (1)	USA	H	421 male adolescents	●			Older > Younger children
Adkison 2013 (2)	UK, USA, Canada, Australia	M	5,939 adult smokers	●	●	○	Younger > Older adults ^c
Amrock 2014 (19)	USA	M	24,658 high school students	●	●	●	Older > Younger children ^d
King 2014 (6)	USA	M	14,758 adults	○	●	○	Younger > Older adults ^f
Gallus 2014 (3)	Italy	M	3,000 adults	●	●	●	Younger > Older adults
Giovenco 2014 (4)	USA	M	2,136 adult current/recent smokers		●	○	Younger > Older adults
Goniewicz 2012 (5)	Poland	M	20,240 high school/uni students		●	●	High school students > Uni students
Lee 2014 (7)	Korea	M	79,202 high school students		○	●	Older > Younger children

Lead Author	Country	Quality Evidence	Sample	Aware	Ever use	Current Use	Key findings
Lippert 2014 (21)	USA	M	15,264 adolescents		○		
Richardson 2014 (22)	USA	M	1,487 adult current/former smokers		●		Younger > Older adults
Tan 2014 (8)	USA	M	9,080 adults	●			Younger > Older adults
Vardavas 2014 (9)	EU member states	M	26,566 adults		●		Younger > Older adults
Agaku 2014 (11)	USA	L	60,192 adults			●	Younger > Older adults ^{ds}
ASH 2014 (54)	Great Britain	L	53,719 adults & children	○	○	○	
ASH Wales 2014 (38)	Wales	L	740 adolescents	○	○	○	
Baeza-Loya 2014 (55)	USA	L	184 adults		○		
Biener 2014 (39)	USA	L	5,150 adults			○	
Brown 2014 (40)	UK	L	4,117 adult smokers		○		
Cho 2011 (41)	Seoul & province in Korea	L	4,341 middle/high school students		○		
Choi 2013 (25)	Minnesota, USA	L	2,624 adults	○	●		20-24year olds > 25-28year olds
Czoli 2014 (26)	Canada	L	1,188 young adults		○	○	
Dautzenberg 2013 (42)	Paris, France	L	3,409 high school students		○		
Dockrell 2013 (56)	UK	L	12,171 adolescents	○	○	○	
Dockrell 2013 (43)	UK	L	12,432 adults		●		Younger > Older adults
Douptcheva 2013 (12) ^b	Switzerland	L	5,081 men		○		
EU 2012 (36)	27 EU member states	L	26,751 adults	○			
Grana 2014 (27)	USA	L	1,549 adult smokers			●	Younger > Older adults
Johns 2014 (57)	USA	L	504 adolescents		●		Older > Younger children
King 2013 (53)	USA	L	10,739 adults	●	○		Younger > Older adults
Kinnunen 2013 (44)	Finland	L	3,535 adolescents	○	○		
Kralikova 2013 (45)	Czech Republic	L	1,738 smokers		●	●	Younger > Older adults (ever use); Older > Younger adults (current use)
Krishnan-Sarin 2014 (46)	USA	L	4,780 middle/high school students	○	○	○	
Li 2013 (30)	New Zealand	L	840 adult current/recent smokers		●		Younger > Older adults ^h
Martinez-Sanchez 2014 (48)	Barcelona, Spain	L	1,291 adults		●	○	Younger > Older adults
McMillen 2012 (13)	USA	L	3,240 adults		○		
Pepper 2014 (14)	USA	L	17,522 adults	●			Younger > Older adults
Pokhrel 2014 (31)	Hawaii, USA	L	307 undergrad students		●	●	Younger > Older adults
Pokhrel 2013 (32)	Hawaii, USA	L	1,685 adult smokers		●		Younger > Older adults
Popova 2013 (15)	USA	L	7,776 adult current/recent smokers		●		Younger > Older adults
Regan 2013 (16)	USA	L	41,240 adults	●	○	○	Younger > Older adults
Sherratt 2014 (33)	Liverpool, England	L	256 adult smokers			○	
Sochor 2014 (50)	Brno city, Czech Republic	L	966 adults			●	Older > Younger adults
Stillman 2014 (51)	USA	L	723 flight attendants			○	
Sutfin 2013 (34)	North Carolina, USA	L	4,857 undergrad students		○		

Lead Author	Country	Quality Evidence	Sample	Aware	Ever use	Current Use	Key findings
Vickerman 2013 (35)	6 states, USA	L	7,966 adult smokers		○		
Yong 2014 (58)	Australia	L	~13,500 current/former smokers ^l	○	○		

^a Current use defined as self-reported use 'regularly' or 'occasionally'.

^b Among smokers only. Ever use defined as any use in last 12 months.

^c Plot shows results for all 4 countries combined.

^d Statistical significance inferred by review authors from non-overlapping confidence intervals

^e Rates also higher among whites for 'established use' (used an e-cigarette at least once in the past 30 days and more than 50 times in their lifetime).

^f Study reports multiple years of data; for reporting purposes, plot reflects data from most recent year.

^g Current use defined as reporting smoking electronic cigarettes at least once during their lifetime and now smoking them 'every day' or 'some days'.

^h Ever purchase of an e-cigarette taken as proxy for ever use.

ⁱ Among smokers only.

^j Among both current and former smokers respectively.

^k Current use defined as 'do you use e-cigarettes?' (i.e. no 30-day timeframe given).

^l Estimated by review team due to sample size not being reported directly by authors.

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