

Supplementary File

Table S1. Electronic search strategies

Database	Search strategy
MEDLINE (1946 to Present)	<p>#1. smoking/ or cigarette smoking/ or "tobacco use"/ or tobacco smoking/ or "tobacco use disorder"/ or tobacco/ or nicotine/</p> <p>#2. (tobacco or cigarette* or nicotine).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]</p> <p>#3. 1 or 2</p> <p>#4. Water Pipe Smoking/ or Tobacco, Waterpipe/ or pipe smoking/ or Smoking Water Pipes/</p> <p>#5. (waterpipe* or (water adj pipe*) or "arg??ile?" or "narg??ile?" or "sh??sh??" or "okra pipe" or goza or nargile? or narkeela or narg?eela or arg?eela or galyan or hookah or huqqa or hukka or "hubbl* bubbl*").mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]</p> <p>#6. 4 or 5</p> <p>#7. 3 and 6</p>
EMBASE (1988 onward)	<p>#1. 'smoking'/exp OR 'cigarette smoking'/exp OR 'tobacco consumption'/exp OR 'tobacco'/exp OR 'tobacco use'/exp OR 'tobacco dependence'/exp OR 'bidi smoking'/exp</p> <p>#2. cigarette* OR 'tobacco product*' OR 'tobacco use'</p>

Database	Search strategy
	<p>OR 'tobacco dependence' OR 'tobacco abuse' OR 'tobacco consumption' OR smoking OR smoker* OR tobacco OR bidi</p> <p>#3. 'waterpipe smoking'/exp OR 'waterpipe tobacco smoking'/exp OR 'waterpipe tobacco'/exp OR 'waterpipe'/exp OR 'hookah'/exp OR 'pipe smoking'/exp OR 'narghile smoking'/exp OR 'hookah smoking'/exp OR 'shisha smoking'/exp</p> <p>#4. waterpipe* OR arghile OR shisha OR 'shisha smoking' OR nargile OR narg?ile OR narg?ile? OR sheesha OR hookah OR huqqa OR 'hubble bubble'</p> <p>#5. #1 OR #2</p> <p>#6. #3 OR #4</p> <p>#7. #5 AND #6</p>
ISI the Web of Science	<p>#1. TS= (cigarette OR cigarettes OR "tobacco product" OR "tobacco products" OR tobacco OR smoking OR smoker OR smokers OR bidi)</p> <p>#2. TS= (waterpipe OR waterpipes OR arghile OR shisha OR nargile OR narghile OR narghileh OR argeela OR nargheela OR argheela OR nargeela OR narkeela OR sheesha OR hookah OR huqqa OR hukka OR galyan OR "hubble bubble" OR "waterpipe tobacco" OR "pipe smoking")</p> <p>#3. #1 AND #2</p>

Table S2. Excluded Studies

STUDY	REASON FOR EXCLUSION
AKRE 2018	Conference abstract
ALOMARI 2018	Design not longitudinal
BARNETT 2014	Design not longitudinal
BARNETT 2017	Design not longitudinal
BARRINGTON 2016	Exposure is not WP
BERG 2016	Exposure is not WP
BERG 2018	Outcome is not cigarette use
BUNNELL 2015	Design not longitudinal
CASE 2018	Inability to obtain the needed statistical information (Cigarette smoking not differentiated from other products)
COLEMAN 2015	Design not longitudinal
CROOKE 2016	Exposure is not WP
DUGAS 2014	Design not longitudinal
FAKHARI 2015	Outcome is not cigarette use
FIELDER 2012(2)	Outcome is not cigarette use
FIELDER 2012	Outcome is not cigarette use
HAIR 2017	Outcome is not cigarette use
HAIR 2018	Exposure is not WP
HAMPSON 2013	Exposure is not WP
HAMPSON 2015	Outcome is not cigarette use
HUH 2016	WP not differentiated from other products
JABER 2015	Outcome is not cigarette use
JABER 2016	Outcome is not cigarette use
JENSEN 2010	Baseline participants: cigarette smokers
KINNUNEN 2016	Outcome is not cigarette use
LEVANTHAL 2017	Exposure is not WP
MANDERSKI 2012	Design not longitudinal
MCKELVEY 2013	Interaction between cigarettes and WP not tested
MCKELVEY 2014	Outcome is not cigarette use
MEHBOUDI 2017	Design not longitudinal
MZAYEK 2011	Design not longitudinal
PENZES 2018	Inability to obtain the needed statistical information (Analysis was not based on non-cigarette smokers at baseline)
SIDANI 2017	Outcome is not cigarette use
STERLING 2011	Outcome is not cigarette use