Table S1. Example of cohort-specific information collected, harmonization potential, and processing algorithms for the variable 'Number of estimated pack years of the participant'. Note that harmonization processing accounted for longitudinal cross-checks for consistency among data collection events. For example, if a participant responded "Yes" to "Ever smoked cigarettes" at baseline or preceding data collection events, then they would be considered as "Yes" in later follow-ups.

DataSchema variable: Number of estimated pack-years of the participant. Format: Continuous (decimal) Unit: pack-years

	Cohort-specific variables	Cohort-specific variable format	Harmonization potential	Processing Algorithm
3	1. Smoking pack-years	1. Continuous	Complete	Direct mapping from [Smoking pack years]
	 Ever smoked cigarettes Avg #cig/day Total years smoked cigarettes 	 Yes No Continuous Continuous 	Complete	Values are coded to 0 if [Ever smoked cigarettes] = No ELSE ([Avg #cig/day]/20)*[Total years smoked cigarettes]
	 Ever smoked cigarettes Pack-years 	 Yes No Continuous 	Complete	Values are coded to 0 if [Ever smoked cigarettes] = No ELSE Direct mapping from [pack years]
	 Ever smoked cigarettes Cigarettes-year, former smoker Cigarettes-year, current smoker 	 Yes No Continuous Continuous 	Complete	Values are coded to 0 if [Ever smoked cigarettes] = No ELSE If [Cigarettes-year, former smoker] = Missing • [Cigarettes-year, current smoker]/(20*365) ELSE If [Cigarettes-year, former smoker] ≠ Missing • [Cigarettes-year, former smoker]/(20*365)
	 Age of participant Current cigarette smoker Past cigarette smoker Cigarette smoking start age Cigarette smoking stop age Avg # cig/day past smoker Avg # cig/day current smoker 	 Continuous Yes No Yes No Continuous Continuous Continuous Continuous Continuous 	Complete	Values are coded to 0 if [Current cigarette smoker] = No & [Past cigarette smoker] = No ELSE If [Current cigarette smoker] = No & [Past cigarette smoker] = Yes ([Cigarette smoking stop age] - [Cigarette smoking start age])*([Avg # cig/day past smoker]/20) ELSE If [Current cigarette smoker] = Yes ([Age of participant] - [Cigarette smoking start age]) * ([Avg # cig/day current smoker]/20)]
	 Qty cig smoked, when daily Total yrs daily smoker 	 Categorical Continuous 	Impossible	N/A
1	Information not available	N/A	Impossible	N/A