

## Suppl. 2\_E1. Rationale for Changes to Youth Fourth Follow-up Instrument

Item Number	Description	Addition	Deletion	Edit	Rationale	Prior Approval Given by OMB
A1	Age			X	Added a response option for 19 year olds, because some respondents will be 19 at this data collection.	The base item was approved by OMB in all prior packages including 11/17/15
S2	Age check (used to correct age discrepancies)			X	Added a response option for 19 year olds, because some respondents will be 19 at this data collection.	The base item was approved by OMB in all prior packages including 11/17/15
B2	Age of initiation			X	Added response options for initiation at 17, 18 and 19 years, to accommodate older youth.	The base item was approved by OMB in all prior packages including 11/17/15
B7	Do you smoke alone?	X			We would like to assess change over time from baseline to 4 <sup>th</sup> FU.	This item was approved for the baseline instrument, on 10/21/13
C2_4	Could say no to a cigarette if a family member offers it?	X			Added to assess the influence of family on self-efficacy	This is similar to items approved on 11/17/15
C3_4	Could say no to smokeless tobacco if a family member offers it?	X			Added to assess the influence of family on self-efficacy	This is similar to items approved on 11/17/15
C4_4	Could say no to an e-cigarette if a family member offers it?	X			Added to assess the influence of family on self-efficacy	This is similar to items approved on 11/17/15
E3_23	Trouble breathing			X	Editing number of item only for clarification; No change in content.	This item was approved on 11/17/15
E3_24	Stunt lung growth			X	Editing number of item only for clarification; No change in content.	This item was approved on 11/17/15
E3_25	Stained teeth			X	Editing number of item only for clarification; No change in content.	This item was approved on 11/17/15
E3_26	Develop gum disease	X			Adding to measure a belief which is the focus of the new ad "gift."	This item has not been previously approved.
E17_11	Change my brain	X			Adding to measure a belief which is the focus of the new ad.	This item has not been previously approved.
E17_11	Be more likely to change my brain in the future	X			Adding to measure a belief which is the focus of the new ad.	This item has not been previously approved.
E5_12	Smoking as a teen can permanently stunt your lungs.	X			Adding to measure a belief which is the focus of the new ad "straw city."	This item has not been previously approved.
E5_13	Smoking cigarettes will make me have serious breathing problems	X			Adding to measure a belief which is the focus of the new ad "straw city."	This item has not been previously approved.
E5_14	If I smoke, the consequences will find me.	X			Adding to measure a belief which is the focus of the new ad "gift."	This item has not been previously approved.
E5_15	Nicotine can reprogram your brain	X			Adding to measure a belief which is the focus of the new ad "hacked."	This item has not been previously approved.
E5_16	If I smoke, it will be hard to think about anything but my next cigarette	X			Adding to measure a belief which is the focus of the new ad "hacked."	This item has not been previously approved.
E5_17	The nicotine in cigarettes may hack your	X			Adding to measure a belief which is the focus of the new ad.	This item has not been previously approved.

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	brain					
E5_18	If I smoke, nicotine will reach my brain in just 10 seconds	X			Adding to measure a belief which is the focus of the new ad.	This item has not been previously approved.
E7_13	Gum disease	X			Adding to measure a belief which is the focus of the new ad "gift."	This item has not been previously approved.
E15_5	Vaping may result in addiction			X	Minor edit for clarity	Base item approved previously including 11/17/15
E15_9	e-cigs can hack your brain	X			Adding to measure a belief which is the focus of the new ad "gift."	This item has not been previously approved.
E9_1	Does cig smoke contain ammonia?		X		Not needed any longer.	NA
E9_2	Does cig smoke contain arsenic?		X		Not needed any longer.	NA
E9_4	Does cig smoke contain beryllium?		X		Not needed any longer.	NA
E9_6	Does cig smoke contain carbon dioxide?		X		Not needed any longer.	NA
E9_8	Does cig smoke contain hydrogen cyanide?		X		Not needed any longer.	NA
E9_9	Does cig smoke contain lead?		X		Not needed any longer.	NA
E9_10	Does cig smoke contain naphthalene?		X		Not needed any longer.	NA
E9_11	Does cig smoke contain nitropropane?		X		Not needed any longer.	NA
E9_12	Does cig smoke contain polonium 210?		X		Not needed any longer.	NA
E9_13	Does cig smoke contain uranium?		X		Not needed any longer.	NA
E9_14	Does cig smoke contain nitromethane?		X		Not needed any longer.	NA
E16_1	Does e-cig smoke contain nicotine?		X		Not needed any longer.	NA
E16_2	Does e-cig smoke contain formaldehyde?		X		Not needed any longer.	NA
E16_3	Does e-cig smoke contain acrolein?		X		Not needed any longer.	NA
E16_4	Does e-cig smoke contain metal particles?		X		Not needed any longer.	NA
E16_5	Does e-cig smoke contain diacetyl?		X		Not needed any longer.	NA
F2_4	Use computer for browsing			X	Minor edits to update popular products	Base item approved previously including 11/17/15
F2_5	Use computer for chatting			X	Minor edits to update popular products	Base item approved previously including 11/17/15
F2_7	Cell phone for video			X	Minor edits to update popular products	Base item approved previously including 11/17/15
F2_8	Cell phone for social networking			X	Minor edits to update popular products	Base item approved previously including 11/17/15
F2_34	Added Soundcloud			X	Minor edits to update popular products	Base item approved previously including 11/17/15
F2_38	How frequently do you	X			Added to update popular products	This item has not been

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	use Snapchat?					previously approved.
F2_39	How frequently do you use Kik?	X			Added to update popular products	This item has not been previously approved.
F6	Adding SoundCloud, Snapchat, and Kik			X	Minor edits to update popular products	Base item approved previously including 11/17/15
F19_x	Main message of the ad			X	Adding three new response options corresponding to the new advertising. Dropping three older response options so burden will remain the same.	The base item was approved by OMB in prior packages including 11/17/15
F11_13	This ad is intense	X			Adding to assess whether this key term from the literature on stylistic elements of ads may be operationalized.	This item is similar to others that have been previously approved, including on 11/17/15.
G3	Rules about smoking in your home	X			We would like to assess change over time from baseline to 4 <sup>th</sup> FU.	This item was approved for the baseline instrument, on 10/21/13
G10	Attend church-religion				We would like to assess change over time from baseline to 4 <sup>th</sup> FU.	This item was approved for the baseline instrument, on 10/21/13
G21	Parents talked with you about e-cig use?	X			Added to update popular products	This item has not been previously approved.