Common Cold Project

British Cold Study
1986-1989

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Code Book

CONTENTS

CONTENTS - *continued*

Introduction

The British Cold Study (BCS) was a prospective viral challenge study conducted from 1986-1989 among healthy volunteers ages 18-54 (mean 33.6 years; SD 10.6). This study primarily focused on psychological stress and its association with common cold susceptibility. Measures of psychological stress included major stressful life events, perceived stress, and negative affect. However, the study included measures of other variables (administered before viral-exposure) as well, including medical history, common cold history, mental health, extraversion, self-esteem, locus of control, social networks and supports, white blood cell counts, etc.

Participants were 153 men and 246 women who were residents of Great Britain and who volunteered to participate in trials at the Medical Research Council's Common Cold Unit (CCU) in Salisbury, England. All were judged to be in good health after clinical and laboratory examination on their arrival at the unit. Participants were reimbursed for their travel expenses and were provided with meals and accommodations during the study. At baseline, participants completed an in-person health evaluation to assess study eligibility. After completing baseline psychosocial questionnaires and biological assessments (immune assessments and measurement of cotinine [a biochemical indicator of smoking] in serum) participants were administered nasal drops containing one of 5 respiratory viruses: rhinovirus (RV) type 2 (n=86), RV9 (n=126), RV14 (n=92), respiratory syncytial virus (RSV, n=40), or coronavirus type 229E (n=55). Starting 2 days before viral challenge and continuing through 6 days after challenge, each participant was examined in quarantine daily by a clinician using a standard checklist of respiratory signs and symptoms. Approximately 28 days after challenge, participants' own physicians collected a second serum sample, which was sent to the CCU for serological testing. The definition of a clinical illness in this study was based on the combination of infection (based on viral shedding and/or 4X increase in antibody titers to the challenge virus) and physician diagnosis based on daily cold symptom protocols.

How to Use this Document

The present document is divided into eight sections, with each representing a category of variable. These are the same measurement categories that appear on the Common Cold Project (CCP) website (www.cmu.edu/common-cold-project). To find descriptive information for a given set of variables, move your cursor over the page number corresponding to the variable category of interest, and click when the pointer appears. Doing so will bring you to a table that includes the following information for all variables comprising that category:

- Variable name (or Var Name)
- Variable label
- Value labels (or Values)
- Formula

Identical information is included in the SPSS data files, when opened to variable view.

With limited exception, most variables are numeric. String variables can be identified by the suffix "_str" which appears at the end of the variable name. All missing data are represented by empty cells.

Value labels are provided for categorical and dichotomous variables. Variables with labeled values are indicated by blue shading of the cells in the Value Labels column, with the values themselves appearing in a separate table. The table can be accessed by clicking on the value label code corresponding to the variable of interest.

Formulas are provided for created variables. All variables were created in SPSS, thus any function terms appearing in the formula are consistent with SPSS analysis language. Most functions are self-explanatory, but the following information may be helpful for individuals who are unfamiliar with SPSS.

Function Term	Explanation
mean.x	Used when an average of several variables is being computed, but only X (where X is less than the total number of variables included in the computation) need be non-missing.
sum.x	Same as above, but with component variables being summed rather than averaged.
count	Used to count the number of time a specified value appears within a set of variables. The value to be counted is identified in parenthesis at the end of the list of variables. The value can be eigher a single number (1) or a range (1 thru highest).
nmiss	Used to count the number of missing values included among a set of variables
lt, le, gt, ge	Less than; less than or equal to; greater than; greater than or equal to
datediff	Used to compute the temporal difference between two date or time variables. Arguments are listed in parenthesis, with the earlier of the two times appearing first; desired time increment (hours, months, days, etc.) is listed after the arguments.
datesum	Used to compute the date resulting from adding (or subtracting) a temporal quantity. Arguments are listed in parenthesis: original date variable, quantity to be added or subtracted, units in which the quantity is expressed.

If a formula for a given variable includes reference to another variable from another category, a link is provided, which can be accessed by clicking on the indicated variable.

INFECTION AND COLDS

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
subj_id	subject ID		
study.id	Cold Study ID	STUDYID	
INFCOLD	*****BEGIN ASSESSMENT OF INFECTION & COLDS DATA*****		
inocday	day of week inoculated	INOC	
bcs.virus	Challenge virus	VIRUS0	
attenvir	attenuation (i.e., is viral strain wild or modified/attenuated?)	ATTEN	
virol	*****VIROLOGY*****		
pre_ab	pre-challenge serum viral-specific Ab titer (RV strains only)		
post_ab	post-challenge serum viral-specific Ab titer (RV strains only)		
ab_4x	4-fold increase in serum neutralizing Ab titer to challenge virus (*RV strains only*)	YES/NO	if ((post_ab/pre_ab) ge 4) ab_4x = 1; if ((post_ab/pre_ab) lt 4) ab_4x = 0;
pre_igg	pre-challenge serum specific IgG - units (log10-transformed titre)		
post_igg	post-challenge serum specifc IgG - units (log10-transformed titre)		
igg_chng	Pre- to post-challenge change in serum specific IgG		igg_chng = post_igg - pre_igg
pre_iga	pre-challenge serum specific IgA - units (log10-transformed titre)		
post_iga	post-challenge serum specific IgA - units (log10-transformed titre)		
iga_chng	Pre- to post-challenge change in serum specific IgA		iga_chng = post_iga - pre_iga

seropos	seropositivity for any of the 5 challenge viruses	SEROPOS	do if (bcs.virus = 1 or bcs.virus = 2 or bcs.virus = 3);
			 if (pre_ab le 2) seropos = 0; if (pre_ab gt 2) seropos = 1;
			 end if.
			 do if (bcs.virus = 4).
			 seropos = 0; if (pre_igg gt 2.735) seropos = 1;
			 end if.
			 do if (bcs.virus = 5).
			 seropos = 0; if (pre_igg gt 3.120) seropos = 1;
			 end if.

INFECTION AND COLDS

VAR NAME	VARIABLE LABEL	VALUES	FORMULA

igg_incr	Significant increase in serum specific IgG (pre- to post-challenge)	YES/NO	do if (bcs.virus = 1);
			if (igg_chng ge 0.26) igg_incr = 1; if (igg_chng lt 0.26) igg_incr = 0;
			end if.
			do if (bcs.virus = 2);
			if (igg_chng ge 0.18) igg_incr = 1; if (igg_chng lt 0.18) igg_incr = 0;
			end if.
			do if (bcs.virus = 3);
			if (igg_chng ge 0.28) igg_incr = 1; if (igg_chng lt 0.28) igg_incr = 0;
			end if.
			do if (bcs.virus = 4);
			if (igg_chng ge 0.16) igg_incr = 1; if (igg_chng lt 0.16) igg_incr = 0;
			end if.
			do if (bcs.virus = 5);
			if (igg_chng ge 0.14) igg_incr = 1; if (igg_chng lt 0.14) igg_incr = 0;
			end if.

iga_incr	Significant increase in serum specific IgA (pre- to post-challenge)	YES/NO	do if (bcs.virus = 1);
			if (iga_chng ge 0.15) iga_incr = 1; if (iga_chng lt 0.15) iga_incr = 0;
			end if.
			do if (bcs.virus = 2);
			if (iga_chng ge 0.44) iga_incr = 1; if (iga_chng lt 0.44) iga_incr = 0;
			end if.
			do if (bcs.virus = 3);
			if (iga_chng ge 0.30) iga_incr = 1; if (iga_chng lt 0.30) iga_incr = 0;
			end if.
			do if (bcs.virus = 4);
			if (iga_chng ge 0.19) iga_incr = 1; if (iga_chng lt 0.19) iga_incr = 0;
			end if.
			do if (bcs.virus = 5);
			if (iga_chng ge 0.21) iga_incr = 1; if (iga_chng lt 0.21) iga_incr = 0;
			end if.

INFECTION AND COLDS

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
seroconv	Seroconversion based on ab_4x = 1 or iga_incr = 1 or igg_incr =1	YES/NO	do if bcs.virus ge 1 and bcs.virus le 3;
			if igg_incr = 1 or iga_incr = 1 or ab_4x = 1 seroconv = 1;
			if igg_incr = 0 and iga_incr = 0 and ab_4x = 0 seroconv = 0;
			end if.
			do if bcs.virus = 4 or bcs.virus = 5;
			if igg_incr = 1 or iga_incr = 1 seroconv = 1;
			if igg_incr = 0 and iga_incr = 0 seroconv = 0;
			end if.
pre_totiga	pre-challenge serum total IgA (ug/ml)		
lpre_totiga	log10(pre-challenge serum total IgA)		lpre_totiga = log10(pre_totiga)
pre_totige	pre-challenge serum total IgE (IU/ml)		
lpre_totige	log10(pre-challenge serum total IgE + 1)		lpre_totige = log10(pre_totige + 1)
pre_iga_nas1	pre-challenge local specific IgA (ug/ml) - nasal wash 1		
pre_totiga_nas1	pre-challenge local total IgA (ug/ml) - nasal wash 1		
lpre_totiga_nas1	log10(pre-challenge total local IgA + 1) - nasal wash 1		lpre_totiga_nas1 = log10(pre_totiga_nas1 + 1)
pre_totige_nas1	pre-challenge total local IgE (IU/ml) - nasal wash 1		
lpre_totige_nas1	log10(pre-challenge total local IgE + 1) - nasal wash 1		lpre_totige_nas1 = log10(pre_totige_nas1 + 1)
pre_prot_nas1	pre-challenge local protein (ug/ml) - nasal wash 1		
lpre_prot_nas1	log10(pre-challenge local protein) - nasal wash 1		lpre_prot_nas1 = log10(pre_prot_nas1)
iga_totiga_nas	ratio of local specific IgA to total IgA - nasal wash 1		iga_totiga_nas = pre_iga_nas1/pre_totiga_nas1
iga_prot_nas	ratio of local specific IgA to total protein - nasal wash 1		iga_prot_nas = pre_iga_nas1/pre_prot_nas1
pre_iga_nas2	pre-challenge local IgA specific (ug/ml) - nasal wash 2		
pre_totiga_nas2	pre-challenge total local IgA (ug/ml) - nasal wash 2		
pre_totige_nas2	pre-challenge total local IgE (IU/ml) - nasal wash 2		
pre_prot_nas2	pre-challenge local protein (ug/ml) - nasal wash 2		

INFECTION AND COLDS

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
pre_shed	Pre-challenge (Day -2, Day -1, or Day 0) virus shedding	YES/NO	
q2.shed	Post-challenge Day 2 virus shedding		
q3.shed	Post-challenge Day 3 virus shedding		
q4.shed	Post-challenge Day 4 virus shedding		
q5.shed	Post-challenge Day 5 virus shedding		
q6.shed	Post-challenge Day 6 virus shedding		
q7.shed	Post-challenge Day 7 virus shedding		
post.sheddays	Total post-challenge days shed virus		post.sheddays = sum(q2.shed, q3.shed, q4.shed, q5.shed, q6.shed)
post.shedany	Any post-challenge virus shedding?	YES/NO	if (post.sheddays $\geq$1) post.shedany=1; if (post.sheddays=0) post.shedany =0

post.infected	Meets criteria for infection?	YES/NO	do if (bcs.virus = 1 or bcs.virus = 2 or bcs.virus = 3) and (nmiss(iga_incr, igg_incr, ab_4x, post.shedany) lt 4);
			
			 if (iga_incr=1 or igg_incr=1 or ab_4x=1 or post.shedany=1) post.infected=1;
			 if (iga_incr ne 1 and igg_incr ne 1 and ab_4x ne 1 and post.shedany ne 1) post.infected = 0;
			 end if.
			 do if (bcs.virus=4 or bcs.virus=5) and (nmiss(iga_incr, igg_incr, post.shedany)<3);
			 if (iga_incr = 1 or igg_incr = 1 or post.shedany = 1) post.infected = 1;
			 if (iga_incr ne 1 and igg_incr ne 1 and post.shedany ne 1) post.infected = 0;
			 end if.

obsign	*****OBSERVED COLD SIGNS/SYMPTOMS*****		
q_2.mucpr_cln	Pre-challenge (Day -2) mucopurulent discharge (clinician)	SYMPRAT	
q_1.mucpr_cln	Pre-challenge (Day -1) mucopurulent discharge (clinician)		
q0.mucpr_cln	Pre-challenge (Day 0) mucopurulent discharge (clinician)		
q1.mucpr_cln	Post-challenge Day 1 mucopurulent discharge (clinician)		
q2.mucpr_cln	Post-challenge Day 2 mucopurulent discharge (clinician)		
q3.mucpr_cln	Post-challenge Day 3 mucopurulent discharge (clinician)		
q4.mucpr_cln	Post-challenge Day 4 mucopurulent discharge (clinician)		
q5.mucpr_cln	Post-challenge Day 5 mucopurulent discharge (clinician)		
q6.mucpr_cln	Post-challenge Day 6 mucopurulent discharge (clinician)		

INFECTION AND COLDS

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
q7.mucpr_cln	Post-challenge Day 7 mucopurulent discharge (clinician)		
q8.mucpr_cln	Post-challenge Day 8 mucopurulent discharge (clinician)		
q_2.sneez_sub	Pre-challenge (Day -2) sneezing, >normal (subjective)	SYMPRAT	
q_1.sneez_sub	Pre-challenge (Day -1) sneezing, >normal (subjective)		
q0.sneez_sub	Pre-challenge (Day 0) sneezing, >normal (subjective)		
q1.sneez_sub	Post-challenge Day 1 sneezing, >normal (subjective)		
q2.sneez_sub	Post-challenge Day 2 sneezing, >normal (subjective)		
q3.sneez_sub	Post-challenge Day 3 sneezing, >normal (subjective)		
q4.sneez_sub	Post-challenge Day 4 sneezing, >normal (subjective)		
q5.sneez_sub	Post-challenge Day 5 sneezing, >normal (subjective)		
q6.sneez_sub	Post-challenge Day 6 sneezing, >normal (subjective)		
q7.sneez_sub	Post-challenge Day 7 sneezing, >normal (subjective)		
q8.sneez_sub	Post-challenge Day 8 sneezing, >normal (subjective)		
q_2.eyes_sub	Pre-challenge (Day -2) watery eyes (subjective)	SYMPRAT	
q_1.eyes_sub	Pre-challenge (Day -1) watery eyes (subjective)		
q0.eyes_sub	Pre-challenge (Day 0) watery eyes (subjective)		
q1.eyes_sub	Post-challenge Day 1 watery eyes (subjective)		
q2.eyes_sub	Post-challenge Day 2 watery eyes (subjective)		
q3.eyes_sub	Post-challenge Day 3 watery eyes (subjective)		
q4.eyes_sub	Post-challenge Day 4 watery eyes (subjective)		
q5.eyes_sub	Post-challenge Day 5 watery eyes (subjective)		
q6.eyes_sub	Post-challenge Day 6 watery eyes (subjective)		
q7.eyes_sub	Post-challenge Day 7 watery eyes (subjective)		
q8.eyes_sub	Post-challenge Day 8 watery eyes (subjective)		
q_2.stuff_sub	Pre-challenge (Day -2) nasal stuffiness (subjective)	SYMPRAT	
q_1.stuff_sub	Pre-challenge (Day -1) nasal stuffiness (subjective)		
q0.stuff_sub	Pre-challenge (Day 0) nasal stuffiness (subjective)		
q1.stuff_sub	Post-challenge Day 1 nasal stuffiness (subjective)		

INFECTION AND COLDS

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
q2.stuff_sub	Post-challenge Day 2 nasal stuffiness (subjective)		
q3.stuff_sub	Post-challenge Day 3 nasal stuffiness (subjective)		
q4.stuff_sub	Post-challenge Day 4 nasal stuffiness (subjective)		
q5.stuff_sub	Post-challenge Day 5 nasal stuffiness (subjective)		
q6.stuff_sub	Post-challenge Day 6 nasal stuffiness (subjective)		
q7.stuff_sub	Post-challenge Day 7 nasal stuffiness (subjective)		
q8.stuff_sub	Post-challenge Day 8 nasal stuffiness (subjective)		
q_2.nasob_cln	Pre-challenge (Day -2) nasal obstruction (clinician)	SYMPRAT	
q_1.nasob_cln	Pre-challenge (Day -1) nasal obstruction (clinician)		
q0.nasob_cln	Pre-challenge (Day 0) nasal obstruction (clinician)		
q1.nasob_cln	Post-challenge Day 1 nasal obstruction (clinician)		
q2.nasob_cln	Post-challenge Day 2 nasal obstruction (clinician)		
q3.nasob_cln	Post-challenge Day 3 nasal obstruction (clinician)		
q4.nasob_cln	Post-challenge Day 4 nasal obstruction (clinician)		
q5.nasob_cln	Post-challenge Day 5 nasal obstruction (clinician)		
q6.nasob_cln	Post-challenge Day 6 nasal obstruction (clinician)		
q7.nasob_cln	Post-challenge Day 7 nasal obstruction (clinician)		
q8.nasob_cln	Post-challenge Day 8 nasal obstruction (clinician)		
q_2.pstnsl_cln	Pre-challenge (Day -2) post-nasal discharge (clinician)	SYMPRAT	
q_1.pstnsl_cln	Pre-challenge (Day -1) post-nasal discharge (clinician)		
q0.pstnsl_cln	Pre-challenge (Day 0) post-nasal discharge (clinician)		
q1.pstnsl_cln	Post-challenge Day 1 post-nasal discharge (clinician)		
q2.pstnsl_cln	Post-challenge Day 2 post-nasal discharge (clinician)		
q3.pstnsl_cln	Post-challenge Day 3 post-nasal discharge (clinician)		
q4.pstnsl_cln	Post-challenge Day 4 post-nasal discharge (clinician)		
q5.pstnsl_cln	Post-challenge Day 5 post-nasal discharge (clinician)		
q6.pstnsl_cln	Post-challenge Day 6 post-nasal discharge (clinician)		
q7.pstnsl_cln	Post-challenge Day 7 post-nasal discharge (clinician)		

INFECTION & COLDS	BIOLOGICAL PATHWAYS	DEMOGRAPHICS	HEALTH PRACTICES	PSYCHOLOGICAL & SOCIAL	SELF-REPORTED HEALTH	TRIAL

6

INFECTION AND COLDS

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
q8.pstnsl_cln	Post-challenge Day 8 post-nasal discharge (clinician)		
q_2.facear_sub	Pre-challenge (Day -2) face/ear pain (subjective)	SYMPRAT	
q_1.facear_sub	Pre-challenge (Day -1) face/ear pain (subjective)		
q0.facear_sub	Pre-challenge (Day 0) face/ear pain (subjective)		
q1.facear_sub	Post-challenge Day 1 face/ear pain (subjective)		
q2.facear_sub	Post-challenge Day 2 face/ear pain (subjective)		
q3.facear_sub	Post-challenge Day 3 face/ear pain (subjective)		
q4.facear_sub	Post-challenge Day 4 face/ear pain (subjective)		
q5.facear_sub	Post-challenge Day 5 face/ear pain (subjective)		
q6.facear_sub	Post-challenge Day 6 face/ear pain (subjective)		
q7.facear_sub	Post-challenge Day 7 face/ear pain (subjective)		
q8.facear_sub	Post-challenge Day 8 face/ear pain (subjective)		
q_2.srthr_sub	Pre-challenge (Day -2) sore throat (subjective)	SYMPRAT	
q_1.srthr_sub	Pre-challenge (Day -1) sore throat (subjective)		
q0.srthr_sub	Pre-challenge (Day 0) sore throat (subjective)		
q1.srthr_sub	Post-challenge Day 1 sore throat (subjective)		
q2.srthr_sub	Post-challenge Day 2 sore throat (subjective)		
q3.srthr_sub	Post-challenge Day 3 sore throat (subjective)		
q4.srthr_sub	Post-challenge Day 4 sore throat (subjective)		
q5.srthr_sub	Post-challenge Day 5 sore throat (subjective)		
q6.srthr_sub	Post-challenge Day 6 sore throat (subjective)		
q7.srthr_sub	Post-challenge Day 7 sore throat (subjective)		
q8.srthr_sub	Post-challenge Day 8 sore throat (subjective)		
q_2.crvadn_cln	Pre-challenge (Day -2) cervical adenitis (clinician)	SYMPRAT	
q_1.crvadn_cln	Pre-challenge (Day -1) cervical adenitis (clinician)		
q0.crvadn_cln	Pre-challenge (Day 0) cervical adenitis (clinician)		
q1.crvadn_cln	Post-challenge Day 1 cervical adenitis (clinician)		
q2.crvadn_cln	Post-challenge Day 2 cervical adenitis (clinician)		

[INFECTION & COLDS](#)   [BIOLOGICAL PATHWAYS](#)   [DEMOGRAPHICS](#)   [HEALTH PRACTICES](#)   [PSYCHOLOGICAL & SOCIAL](#)   [SELF-REPORTED HEALTH](#)   [TRIAL](#)

7

INFECTION AND COLDS

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
q3.crvadn_cln	Post-challenge Day 3 cervical adenitis (clinician)		
q4.crvadn_cln	Post-challenge Day 4 cervical adenitis (clinician)		
q5.crvadn_cln	Post-challenge Day 5 cervical adenitis (clinician)		
q6.crvadn_cln	Post-challenge Day 6 cervical adenitis (clinician)		
q7.crvadn_cln	Post-challenge Day 7 cervical adenitis (clinician)		
q8.crvadn_cln	Post-challenge Day 8 cervical adenitis (clinician)		
q_2.hoars_cln	Pre-challenge (Day -2) hoarseness (clinician)	SYMPRAT	
q_1.hoars_cln	Pre-challenge (Day -1) hoarseness (clinician)		
q0.hoars_cln	Pre-challenge (Day 0) hoarseness (clinician)		
q1.hoars_cln	Post-challenge Day 1 hoarseness (clinician)		
q2.hoars_cln	Post-challenge Day 2 hoarseness (clinician)		
q3.hoars_cln	Post-challenge Day 3 hoarseness (clinician)		
q4.hoars_cln	Post-challenge Day 4 hoarseness (clinician)		
q5.hoars_cln	Post-challenge Day 5 hoarseness (clinician)		
q6.hoars_cln	Post-challenge Day 6 hoarseness (clinician)		
q7.hoars_cln	Post-challenge Day 7 hoarseness (clinician)		
q8.hoars_cln	Post-challenge Day 8 hoarseness (clinician)		
q_2.cough_cln	Pre-challenge (Day -2) cough (clinician)	SYMPRAT	
q_1.cough_cln	Pre-challenge (Day -1) cough (clinician)		
q0.cough_cln	Pre-challenge (Day 0) cough (clinician)		
q1.cough_cln	Post-challenge Day 1 cough (clinician)		
q2.cough_cln	Post-challenge Day 2 cough (clinician)		
q3.cough_cln	Post-challenge Day 3 cough (clinician)		
q4.cough_cln	Post-challenge Day 4 cough (clinician)		
q5.cough_cln	Post-challenge Day 5 cough (clinician)		
q6.cough_cln	Post-challenge Day 6 cough (clinician)		
q7.cough_cln	Post-challenge Day 7 cough (clinician)		
q8.cough_cln	Post-challenge Day 8 cough (clinician)		

| INFECTION & COLDS | BIOLOGICAL PATHWAYS | DEMOGRAPHICS | HEALTH PRACTICES | PSYCHOLOGICAL & SOCIAL | SELF-REPORTED HEALTH | TRIAL |

8

INFECTION AND COLDS

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
q_2.sputm_cln	Pre-challenge (Day -2) sputum (clinician)	SYMPRAT	
q_1.sputm_cln	Pre-challenge (Day -1) sputum (clinician)		
q0.sputm_cln	Pre-challenge (Day 0) sputum (clinician)		
q1.sputm_cln	Post-challenge Day 1 sputum (clinician)		
q2.sputm_cln	Post-challenge Day 2 sputum (clinician)		
q3.sputm_cln	Post-challenge Day 3 sputum (clinician)		
q4.sputm_cln	Post-challenge Day 4 sputum (clinician)		
q5.sputm_cln	Post-challenge Day 5 sputum (clinician)		
q6.sputm_cln	Post-challenge Day 6 sputum (clinician)		
q7.sputm_cln	Post-challenge Day 7 sputum (clinician)		
q8.sputm_cln	Post-challenge Day 8 sputum (clinician)		
q_2.hdach_sub	Pre-challenge (Day -2) headache (subjective)	SYMPRAT	
q_1.hdach_sub	Pre-challenge (Day -1) headache (subjective)		
q0.hdach_sub	Pre-challenge (Day 0) headache (subjective)		
q1.hdach_sub	Post-challenge Day 1 headache (subjective)		
q2.hdach_sub	Post-challenge Day 2 headache (subjective)		
q3.hdach_sub	Post-challenge Day 3 headache (subjective)		
q4.hdach_sub	Post-challenge Day 4 headache (subjective)		
q5.hdach_sub	Post-challenge Day 5 headache (subjective)		
q6.hdach_sub	Post-challenge Day 6 headache (subjective)		
q7.hdach_sub	Post-challenge Day 7 headache (subjective)		
q8.hdach_sub	Post-challenge Day 8 headache (subjective)		
q_2.malais_sub	Pre-challenge (Day -2) malaise (subjective)	SYMPRAT	
q_1.malais_sub	Pre-challenge (Day -1) malaise (subjective)		
q0.malais_sub	Pre-challenge (Day 0) malaise (subjective)		
q1.malais_sub	Post-challenge Day 1 malaise (subjective)		
q2.malais_sub	Post-challenge Day 2 malaise (subjective)		
q3.malais_sub	Post-challenge Day 3 malaise (subjective)		

INFECTION AND COLDS

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
q4.malais_sub	Post-challenge Day 4 malaise (subjective)		
q5.malais_sub	Post-challenge Day 5 malaise (subjective)		
q6.malais_sub	Post-challenge Day 6 malaise (subjective)		
q7.malais_sub	Post-challenge Day 7 malaise (subjective)		
q8.malais_sub	Post-challenge Day 8 malaise (subjective)		
q_2.myalg_sub	Pre-challenge (Day -2) myalgia (subjective)	SYMPRAT	
q_1.myalg_sub	Pre-challenge (Day -1) myalgia (subjective)		
q0.myalg_sub	Pre-challenge (Day 0) myalgia (subjective)		
q1.myalg_sub	Post-challenge Day 1 myalgia (subjective)		
q2.myalg_sub	Post-challenge Day 2 myalgia (subjective)		
q3.myalg_sub	Post-challenge Day 3 myalgia (subjective)		
q4.myalg_sub	Post-challenge Day 4 myalgia (subjective)		
q5.myalg_sub	Post-challenge Day 5 myalgia (subjective)		
q6.myalg_sub	Post-challenge Day 6 myalgia (subjective)		
q7.myalg_sub	Post-challenge Day 7 myalgia (subjective)		
q8.myalg_sub	Post-challenge Day 8 myalgia (subjective)		
q_2.chill_sub	Pre-challenge (Day -2) chills (subjective)	SYMPRAT	
q_1.chill_sub	Pre-challenge (Day -1) chills (subjective)		
q0.chill_sub	Pre-challenge (Day 0) chills (subjective)		
q1.chill_sub	Post-challenge Day 1 chills (subjective)		
q2.chill_sub	Post-challenge Day 2 chills (subjective)		
q3.chill_sub	Post-challenge Day 3 chills (subjective)		
q4.chill_sub	Post-challenge Day 4 chills (subjective)		
q5.chill_sub	Post-challenge Day 5 chills (subjective)		
q6.chill_sub	Post-challenge Day 6 chills (subjective)		
q7.chill_sub	Post-challenge Day 7 chills (subjective)		
q8.chill_sub	Post-challenge Day 8 chills (subjective)		

INFECTION AND COLDS

VAR NAME	VARIABLE LABELS	VALUES	FORMULA
q_2.bedhrs_sub	Pre-challenge (Day -2) extra hours in bed (subjective)		
q_1.bedhrs_sub	Pre-challenge (Day -1) extra hours in bed (subjective)		
q0.bedhrs_sub	Pre-challenge (Day 0) extra hours in bed (subjective)		
q1.bedhrs_sub	Post-challenge Day 1 extra hours in bed (subjective)		
q2.bedhrs_sub	Post-challenge Day 2 extra hours in bed (subjective)		
q3.bedhrs_sub	Post-challenge Day 3 extra hours in bed (subjective)		
q4.bedhrs_sub	Post-challenge Day 4 extra hours in bed (subjective)		
q5.bedhrs_sub	Post-challenge Day 5 extra hours in bed (subjective)		
q6.bedhrs_sub	Post-challenge Day 6 extra hours in bed (subjective)		
q7.bedhrs_sub	Post-challenge Day 7 extra hours in bed (subjective)		
q8.bedhrs_sub	Post-challenge Day 8 extra hours in bed (subjective)		
q_2.tissue	Pre-challenge (Day -2) tissue count		
q_1.tissue	Pre-challenge (Day -1) tissue count		
q0.tissue	Pre-challenge (Day 0) tissue count		
q1.tissue	Post-challenge Day 1 tissue count		
q2.tissue	Post-challenge Day 2 tissue count		
q3.tissue	Post-challenge Day 3 tissue count		
q4.tissue	Post-challenge Day 4 tissue count		
q5.tissue	Post-challenge Day 5 tissue count		
q6.tissue	Post-challenge Day 6 tissue count		
q7.tissue	Post-challenge Day 7 tissue count		
q8.tissue	Post-challenge Day 8 tissue count		
pre.tissue	Average pre-challenge (baseline) tissue count		pre.tissue = mean(q_2.tissue, q_1.tissue, q0.tissue)
q1.tiss_adj	Post-challenge Day 1 tissue count, adjusted for baseline		q1.tiss_adj = q1.tissue - pre.tissue
q2.tiss_adj	Post-challenge Day 2 tissue count, adjusted for baseline		q2.tiss_adj = q2.tissue - pre.tissue
q3.tiss_adj	Post-challenge Day 3 tissue count, adjusted for baseline		q3.tiss_adj = q3.tissue - pre.tissue
q4.tiss_adj	Post-challenge Day 4 tissue count, adjusted for baseline		q4.tiss_adj = q4.tissue - pre.tissue
q5.tiss_adj	Post-challenge Day 5 tissue count, adjusted for baseline		q5.tiss_adj = q5.tissue - pre.tissue
q6.tiss_adj	Post-challenge Day 6 tissue count, adjusted for baseline		q6.tiss_adj = q6.tissue - pre.tissue
q7.tiss_adj	Post-challenge Day 7 tissue count, adjusted for baseline		q7.tiss_adj = q7.tissue - pre.tissue
q8.tiss_adj	Post-challenge Day 8 tissue count, adjusted for baseline		q8.tiss_adj = q8.tissue - pre.tissue

INFECTION AND COLDS

VAR NAME	VARIABLE LABELS	VALUES	FORMULA
scores	*****SIGN/SYMPTOM SCORES*****		
q1.tiss_scr	Post-challenge Day 1 tissue use score	TISSUE	
q2.tiss_scr	Post-challenge Day 2 tissue use score		
q3.tiss_scr	Post-challenge Day 3 tissue use score		
q4.tiss_scr	Post-challenge Day 4 tissue use score		
q5.tiss_scr	Post-challenge Day 5 tissue use score		
q6.tiss_scr	Post-challenge Day 6 tissue use score		
q7.tiss_scr	Post-challenge Day 7 tissue use score		
q8.tiss_scr	Post-challenge Day 8 tissue use score		
q_2.tmpscr_pm	Pre-challenge (Day -2) afternoon diff from 37 ºC	TMPSCR	if (q_2.pmdiff <0.5) q_2.tmpscr_pm = 0.
q_2.tmpscr_am	Pre-challenge (Day -2) morning diff from 37 ºC		if (q_2.pmdiff ≥0.5 and q_2.pmdiff <1.0) q_2.tmpscr_pm = 1.
q_1.tmpscr_pm	Pre-challenge (Day -1) afternoon diff from 37 ºC		if (q_2.pmdiff ≥1.0 and q_2.pmdiff <1.5) q_2.tmpscr_pm = 2.
q_1.tmpscr_am	Pre-challenge (Day -1) morning diff from 37 ºC		if (q_2.pmdiff ≥1.5) q_2.tmpscr_pm = 3.
q0.tmpscr_pm	Pre-challenge (Day 0) afternoon diff from 37 ºC		
q0.tmpscr_am	Pre-challenge (Day 0) morning diff from 37 ºC		(repeated for each temperature measurement on each quarantine day)
q1.tmpscr_pm	Post-challenge Day 1 afternoon diff from 37 ºC		
q1.tmpscr_am	Post-challenge Day 1 morning diff from 37 ºC		
q2.tmpscr_pm	Post-challenge Day 2 afternoon diff from 37 ºC		
q2.tmpscr_am	Post-challenge Day 2 morning diff from 37 ºC		
q3.tmpscr_pm	Post-challenge Day 3 afternoon diff from 37 ºC		
q3.tmpscr_am	Post-challenge Day 3 morning diff from 37 ºC		
q4.tmpscr_pm	Post-challenge Day 4 afternoon diff from 37 ºC		
q4.tmpscr_am	Post-challenge Day 4 morning diff from 37 ºC		
q5.tmpscr_pm	Post-challenge Day 5 afternoon diff from 37 ºC		
q5.tmpscr_am	Post-challenge Day 5 morning diff from 37 ºC		
q6.tmpscr_pm	Post-challenge Day 6 afternoon diff from 37 ºC		
q6.tmpscr_am	Post-challenge Day 6 morning diff from 37 ºC		
q7.tmpscr_pm	Post-challenge Day 7 afternoon diff from 37 ºC		
q7.tmpscr_am	Post-challenge Day 7 morning diff from 37 ºC		
q8.tmpscr_pm	Post-challenge Day 8 afternoon diff from 37 ºC		
q8.tmpscr_am	Post-challenge Day 8 morning diff from 37 ºC		

INFECTION AND COLDS

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
q1.score	Post-challenge Day 1 total sign/symp score (original)		q1.score = sum.16(q1.tiss_scr, q1.mucpr_cln, q1.nasob_cln, q1.pstnsl_cln, q1.facear_sub, q1.crvadn_cln, q1.hoars_cln, q1.cough_cln, q1.sputm_cln, q1.hdach_sub, q1.malais_sub, q1.myalg_sub, q1.chill_sub, q1.sneez_sub, q1.eyes_sub, q1.stuff_sub, q1.srthr_sub, q1.tmpscr_pm, q1.tmpscr_am, q1.bedhrs_sub). (repeated for each post-challenge day)
q2.score	Post-challenge Day 2 total sign/symp score (original)		
q3.score	Post-challenge Day 3 total sign/symp score (original)		
q4.score	Post-challenge Day 4 total sign/symp score (original)		
q5.score	Post-challenge Day 5 total sign/symp score (original)		
q6.score	Post-challenge Day 6 total sign/symp score (original)		
q7.score	Post-challenge Day 7 total sign/symp score (original)		
q8.score	Post-challenge Day 8 total sign/symp score (original)		
post.score_tot	Total Post-challenge Sign/Symp Score (original, Day 2 thru Day 6)		post.score_tot = sum.4(q2.score, q3.score, q4.score, q5.score, q6.score).
q1.signsymp	Post-challenge Day 1 total sign/symptom score		q1.signsymp = mean.16(q1.tiss_scr, q1.mucpr_cln, q1.nasob_cln, q1.pstnsl_cln, q1.facear_sub, q1.crvadn_cln, q1.hoars_cln, q1.cough_cln, q1.sputm_cln, q1.hdach_sub, q1.malais_sub, q1.myalg_sub, q1.chill_sub, q1.sneez_sub, q1.eyes_sub, q1.stuff_sub, q1.srthr_sub, q1.tmpscr_pm, q1.tmpscr_am, q1.bedhrs_sub)*20. (repeated for each post-challenge day)
q2.signsymp	Post-challenge Day 2 total sign/symptom score		
q3.signsymp	Post-challenge Day 3 total sign/symptom score		
q4.signsymp	Post-challenge Day 4 total sign/symptom score		
q5.signsymp	Post-challenge Day 5 total sign/symptom score		
q6.signsymp	Post-challenge Day 6 total sign/symptom score		
post.signsymp_tot	Total Post-challenge Sign/Symptom Score (Day 1 thru Day 6)		post.signsymp_tot = mean.4(q1.score, q2.score, q3.score, q4.score, q5.score, q6.score)*6.

INFECTION AND COLDS

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
post.clingrade	Clinical classification of cold	CLNGRD	
post.sig_cln	Clinician assessment: significance of cold	CLNSIG	
post.sev_cln	Clinician assessment: severity of cold	CLNSEV	
post.react_cln	Clinician assessment: participant's reaction to cold	CLNSEV	
post.sev_sub	Participant self-assessment: severity of cold	SUBSEV	
post.sev100_sub	Participant self-assessment: severity of cold on 0-100 scale		
post.clincold	Meets clinician criteria for cold?	YES/NO	if (post.infected = 0) post.clincold = 0.
			do if (post.infected = 1);
			if (post.sev_cln lt 2) or (post.score_tot = 0) post.clincold = 0.
			if (post.sev_cln ge 2 and post.score_tot gt 0) post.clincold = 1.
			end if.
mucwt	**MUCUS WEIGHTS (NOT USED IN CLINICAL SCORE)**		
q_2.mucwt	Pre-challenge (Day -2) mucus weight (g)		
q_1.mucwt	Pre-challenge (Day -1) mucus weight (g)		
q0.mucwt	Pre-challenge (Day 0) mucus weight (g)		
q1.mucwt	Post-challenge Day 1 mucus weight (g)		
q2.mucwt	Post-challenge Day 2 mucus weight (g)		
q3.mucwt	Post-challenge Day 3 mucus weight (g)		
q4.mucwt	Post-challenge Day 4 mucus weight (g)		
q5.mucwt	Post-challenge Day 5 mucus weight (g)		
q6.mucwt	Post-challenge Day 6 mucus weight (g)		
q7.mucwt	Post-challenge Day 7 mucus weight (g)		
q8.mucwt	Post-challenge Day 8 mucus weight (g)		
pre.mucwt	Average pre-challenge (baseline) mucus weight (g)		pre.mucwt = mean(q_2.mucwt, q_1.mucwt, q0.mucwt).
q1.mucwt_adj	Post-challenge Day 1 mucus weight (g), adj for baseline		q1.mucwt_adj = q1.mucwt - pre.mucwt; if (q1.mucwt_adj lt 0) q1.mucwt_adj = 0.
q2.mucwt_adj	Post-challenge Day 2 mucus weight (g), adj for baseline		q2.mucwt_adj = q2.mucwt - pre.mucwt; if (q2.mucwt_adj lt 0) q2.mucwt_adj = 0.
q3.mucwt_adj	Post-challenge Day 3 mucus weight (g), adj for baseline		q3.mucwt_adj = q3.mucwt - pre.mucwt; if (q3.mucwt_adj lt 0) q3.mucwt_adj = 0.
q4.mucwt_adj	Post-challenge Day 4 mucus weight (g), adj for baseline		q4.mucwt_adj = q4.mucwt - pre.mucwt; if (q4.mucwt_adj lt 0) q4.mucwt_adj = 0.

| INFECTION & COLDS | BIOLOGICAL PATHWAYS | DEMOGRAPHICS | HEALTH PRACTICES | PSYCHOLOGICAL & SOCIAL | SELF-REPORTED HEALTH | TRIAL |

14

INFECTION AND COLDS

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
q5.mucwt_adj	Post-challenge Day 5 mucus weight (g), adj for baseline		q5.mucwt_adj = q5.mucwt - pre.mucwt; if (q5.mucwt_adj lt 0) q5.mucwt_adj = 0.
q6.mucwt_adj	Post-challenge Day 6 mucus weight (g), adj for baseline		q6.mucwt_adj = q6.mucwt - pre.mucwt; if (q6.mucwt_adj lt 0) q6.mucwt_adj = 0.
post.mucwt_adj	Total Adjusted Post-challenge Mucus Weight (g)		post.mucwt_adj = sum.6(q1.mucwt_adj, q2.mucwt_adj, q3.mucwt_adj, q4.mucwt_adj, q5.mucwt_adj, q6.mucwt_adj).
q1.mucscrtn	Post-challenge Day 1 any mucus secretion?	YES/NO	q1.mucscrtn = 0; if (q1.mucwt_adj gt 0) q1.mucscrtn = 1.
q2.mucscrtn	Post-challenge Day 2 any mucus secretion?		q2.mucscrtn = 0; if (q2.mucwt_adj gt 0) q2.mucscrtn = 1.
q3.mucscrtn	Post-challenge Day 3 any mucus secretion?		q3.mucscrtn = 0; if (q3.mucwt_adj gt 0) q3.mucscrtn = 1.
q4.mucscrtn	Post-challenge Day 4 any mucus secretion?		q4.mucscrtn = 0; if (q4.mucwt_adj gt 0) q4.mucscrtn = 1.
q5.mucscrtn	Post-challenge Day 5 any mucus secretion?		q5.mucscrtn = 0; if (q5.mucwt_adj gt 0) q5.mucscrtn = 1.
q6.mucscrtn	Post-challenge Day 6 any mucus secretion?		q6.mucscrtn = 0; if (q6.mucwt_adj gt 0) q6.mucscrtn = 1.
post.mucdays	Total post-challenge days with adjusted mucus weight > 0		post.mucdays = sum.6(q1.mucscrtn, q2.mucscrtn, q3.mucscrtn, q4.mucscrtn, q5.mucscrtn, q6.mucscrtn).

INFECTION & COLDS **Value Labels for Categorical and Dichotomous Variables**

CODE	VALUE LABELS	CODE	VALUE LABELS	CODE	VALUE LABELS
STUDYID	0=BCS	ATTEN	0=not attenuated	TMPSCR	0= lt 0.5^{o}C
	1=PCS1		1=attenuated		1=ge 0.5^{o}C and lt 1.0^{o}C
	2=PCS2				2=ge 1.0^{o}C and lt 1.5^{o}C
	3=PCS3	SYMPRAT	0 = absent		3=ge 1.5^{o}C and lt 2.0^{o}C
	4=PMBC		0.5-1.0 = slight		
			1.5-2.0 = moderate	CLNGRD	0=uninfected
VIRUS0	1=RV2		2.5-3.0 = severe		1=subclinical
	2=RV9				2=clinical cold
	3=RV14	TISSUE	0=adj. tissue count = 2		
	4=RSV		1=adj. tissue count = 4	CLNSIG	1=not significant
	5=coronavirus 229E		2=adj. tissue count = 8		2=significant
			3=adj. tissue count = 12		
SEROPOS	0=not seropositive		4=adj. tissue count = 16	CLNSEV	0=nil
	1=seropositive		5=adj. tissue count = 20		1=doubtful
			6=adj. tissue count = 25		2=mild
YES/NO	0=no		7=adj. tissue count = 30		3=moderate
	1=yes		8=adj. tissue count = 35		4=severe
			9=adj. tissue count = 40		
INOC	0=Wednesday		10=adj. tissue count = 50	SUBSEV	0=no cold
	1=Thursday		11=adj. tissue count = 60		1=very mild
	2=Friday		12=adj. tissue count = 70		2=mild
					3=moderate
					4=severe

INFECTION & COLDS	BIOLOGICAL PATHWAYS	DEMOGRAPHICS	HEALTH PRACTICES	PSYCHOLOGICAL & SOCIAL	SELF-REPORTED HEALTH	TRIAL

16

BIOLOGICAL PATHWAYS

VARIABLE NAME	VARIABLE LABEL	VALUE LABELS	FORMULA
BIOPATH	*****BEGIN BIOLOGICAL PATHWAYS DATA*****		
anthr	*****ANTHROPOMORPHICS*****		
height_cm	Height (cm)		
weight_kg	Weight (kg)		
bodymass	Body mass index (kg/m**2)		bodymass = (weight_kg)/[(height_cm/100)]^2
ponderosity	Ponderal index [kg/(m)**3]		ponderosity = (weight_kg)/[(height_cm/100)]^3
immq	*****QUANTITATIVE IMMUNE DATA*****		
cd19pct	% lymphocytes that are B cells (range: 0-99)		
cd3pct	% lymphocytes that are T cells (range: 0-99)		
cd4pctt	% T cells that are T helper cells (range: 0-99)		
cd8pctt	% T cells that are T suppressor cells (range: 0-99)		
cd4cd8	T-helper/T-suppressor ratio		cd4cd8 = cd4abs/cd8abs
cd19abs	B-cell count (computed)		cd19abs = (cd19pct/100)*cbc.abslym
cd3abs	T-cell count (computed)		cd3abs = (cd3pct/100)*cbc.abslym
cd4abs	T-helper count (computed)		cd4abs = (cd4pctt/100)*cd3abs
cd8abs	T-suppressor count (computed)		cd8abs = (cd8pctt/100)*cd3abs
cd3pctwc	% WBCs that are T-cells (range: 0-99)		cd3pctwc = (cd3abs/cdc.wbc)*100
cd19pctwc	% WBCs that are B-cells (range: 0-99)		cd19pctwc = (cd19abs/cdc.wbc)*100
cd4pctwc	% WBCs that are T-helper cells (range: 0-99)		cd4pctwc = (cd4abs/cdc.wbc)*100
cd8pctwc	% WBCs that are T-suppressor cells (range: 0-99)		cd8pctwc = (cd8abs/cdc.wbc)*100
rst	*****RESTING BIOLOGICAL MEASURES*****		
q_2.temp_aft	Pre-challenge (Day -2) afternoon temperature (Fahrenheit)		q_2.temp_aft = (q_2.temp_pmc*1.8) + 32
q_2.temp_mrn	Pre-challenge (Day -2) morning temperature (Fahrenheit)		q_2.temp_mrn = (q_2.temp_amc*1.8) + 32
q_1.temp_aft	Pre-challenge (Day -1) afternoon temperature (Fahrenheit)		q_1.temp_aft = (q_1.temp_pmc*1.8) + 32
q_1.temp_mrn	Pre-challenge (Day -1) morning temperature (Fahrenheit)		q_1.temp_mrn = (q_1.temp_amc*1.8) + 32
q0.temp_aft	Pre-challenge (Day 0) afternoon temperature (Fahrenheit)		q0.temp_aft = (q0.temp_pmc*1.8) + 32
q0.temp_mrn	Pre-challenge (Day 0) morning temperature (Fahrenheit)		q0.temp_mrn = (q0.temp_amc*1.8) + 32

| INFECTION & COLDS | BIOLOGICAL PATHWAYS | DEMOGRAPHICS | HEALTH PRACTICES | PSYCHOLOGICAL & SOCIAL | SELF-REPORTED HEALTH | TRIAL |

17

BIOLOGICAL PATHWAYS

VARIABLE NAME	VARIABLE LABEL	VALUE LABELS	FORMULA
q1.temp_aft	Post-challenge Day 1 afternoon temperature (Fahrenheit)		q1.temp_aft = (q1.temp_pmc*1.8) + 32
q1.temp_mrn	Post-challenge Day 1 morning temperature (Fahrenheit)		q1.temp_mrn = (q1.temp_amc*1.8) + 32
q2.temp_aft	Post-challenge Day 2 afternoon temperature (Fahrenheit)		q2.temp_aft = (q2.temp_pmc*1.8) + 32
q2.temp_mrn	Post-challenge Day 2 morning temperature (Fahrenheit)		q2.temp_mrn = (q2.temp_amc*1.8) + 32
q3.temp_aft	Post-challenge Day 3 afternoon temperature (Fahrenheit)		q3.temp_aft = (q3.temp_pmc*1.8) + 32
q3.temp_mrn	Post-challenge Day 3 morning temperature (Fahrenheit)		q3.temp_mrn = (q3.temp_amc*1.8) + 32
q4.temp_aft	Post-challenge Day 4 afternoon temperature (Fahrenheit)		q4.temp_aft = (q4.temp_pmc*1.8) + 32
q4.temp_mrn	Post-challenge Day 4 morning temperature (Fahrenheit)		q4.temp_mrn = (q4.temp_amc*1.8) + 32
q5.temp_aft	Post-challenge Day 5 afternoon temperature (Fahrenheit)		q5.temp_aft = (q5.temp_pmc*1.8) + 32
q5.temp_mrn	Post-challenge Day 5 morning temperature (Fahrenheit)		q5.temp_mrn = (q5.temp_amc*1.8) + 32
q6.temp_aft	Post-challenge Day 6 afternoon temperature (Fahrenheit)		q6.temp_aft = (q6.temp_pmc*1.8) + 32
q6.temp_mrn	Post-challenge Day 6 morning temperature (Fahrenheit)		q6.temp_mrn = (q6.temp_amc*1.8) + 32
q7.temp_aft	Post-challenge Day 7 afternoon temperature (Fahrenheit)		q7.temp_aft = (q7.temp_pmc*1.8) + 32
q7.temp_mrn	Post-challenge Day 7 morning temperature (Fahrenheit)		q7.temp_mrn = (q7.temp_amc*1.8) + 32
q8.temp_aft	Post-challenge Day 8 afternoon temperature (Fahrenheit)		q8.temp_aft = (q8.temp_pmc*1.8) + 32
q8.temp_mrn	Post-challenge Day 8 morning temperature (Fahrenheit)		q8.temp_mrn = (q8.temp_amc*1.8) + 32
q_2.temp_pmc	Pre-challenge (Day -2) afternoon temperature (Celsius)		
q_2.temp_amc	Pre-challenge (Day -2) morning temperature (Celsius)		
q_1.temp_pmc	Pre-challenge (Day -1) afternoon temperature (Celsius)		
q_1.temp_amc	Pre-challenge (Day -1) morning temperature (Celsius)		
q0.temp_pmc	Pre-challenge (Day 0) afternoon temperature (Celsius)		
q0.temp_amc	Pre-challenge (Day 0) morning temperature (Celsius)		
q1.temp_pmc	Post-challenge Day 1 afternoon temperature (Celsius)		
q1.temp_amc	Post-challenge Day 1 morning temperature (Celsius)		
q2.temp_pmc	Post-challenge Day 2 afternoon temperature (Celsius)		
q2.temp_amc	Post-challenge Day 2 morning temperature (Celsius)		

BIOLOGICAL PATHWAYS

VARIABLE NAME	VARIABLE LABEL	VALUE LABELS	FORMULA
q3.temp_pmc	Post-challenge Day 3 afternoon temperature (Celsius)		
q3.temp_amc	Post-challenge Day 3 morning temperature (Celsius)		
q4.temp_pmc	Post-challenge Day 4 afternoon temperature (Celsius)		
q4.temp_amc	Post-challenge Day 4 morning temperature (Celsius)		
q5.temp_pmc	Post-challenge Day 5 afternoon temperature (Celsius)		
q5.temp_amc	Post-challenge Day 5 morning temperature (Celsius)		
q6.temp_pmc	Post-challenge Day 6 afternoon temperature (Celsius)		
q6.temp_amc	Post-challenge Day 6 morning temperature (Celsius)		
q7.temp_pmc	Post-challenge Day 7 afternoon temperature (Celsius)		
q7.temp_amc	Post-challenge Day 7 morning temperature (Celsius)		
q8.temp_pmc	Post-challenge Day 8 afternoon temperature (Celsius)		
q8.temp_amc	Post-challenge Day 8 morning temperature (Celsius)		
q_2.pmdiff	Difference between Day -2 pm temp and normal (37 ^{o}C)		q_2.pmdiff = q_2.temp_pmc - 37
q_2.amdiff	Difference between Day -2 am temp and normal (37 ^{o}C)		q_2.amdiff = q_2.temp_amc - 37
q_1.pmdiff	Difference between Day -1 pm temp and normal (37 ^{o}C)		q_1.pmdiff = q_1.temp_pmc - 37
q_1.amdiff	Difference between Day -1 am temp and normal (37 ^{o}C)		q_1.amdiff = q_1.temp_amc - 37
q0.pmdiff	Difference between Day 0 pm temp and normal (37 ^{o}C)		q0.pmdiff = q0.temp_pmc - 37
q0.amdiff	Difference between Day 0 am temp and normal (37 ^{o}C)		q0.amdiff = q0.temp_amc - 37
q1.pmdiff	Difference between Day 1 pm temp and normal (37 ^{o}C)		q1.pmdiff = q1.temp_pmc - 37
q1.amdiff	Difference between Day 1 am temp and normal (37 ^{o}C)		q1.amdiff = q1.temp_amc - 37
q2.pmdiff	Difference between Day 2 pm temp and normal (37 ^{o}C)		q2.pmdiff = q2.temp_pmc - 37
q2.amdiff	Difference between Day 2 am temp and normal (37 ^{o}C)		q2.amdiff = q2.temp_amc - 37
q3.pmdiff	Difference between Day 3 pm temp and normal (37 ^{o}C)		q3.pmdiff = q3.temp_pmc - 37
q3.amdiff	Difference between Day 3 am temp and normal (37 ^{o}C)		q3.amdiff = q3.temp_amc - 37
q4.pmdiff	Difference between Day 4 pm temp and normal (37 ^{o}C)		q4.pmdiff = q4.temp_pmc - 37
q4.amdiff	Difference between Day 4 am temp and normal (37 ^{o}C)		q4.amdiff = q4.temp_amc - 37

BIOLOGICAL PATHWAYS

VARIABLE NAME	VARIABLE LABEL	VALUE LABELS	FORMULA
q5.pmdiff	Difference between Day 5 pm temp and normal (37 ^{o}C)		q5.pmdiff = q5.temp_pmc - 37
q5.amdiff	Difference between Day 5 am temp and normal (37 ^{o}C)		q5.amdiff = q5.temp_amc - 37
q6.pmdiff	Difference between Day 6 pm temp and normal (37 ^{o}C)		q6.pmdiff = q6.temp_pmc - 37
q6.amdiff	Difference between Day 6 am temp and normal (37 ^{o}C)		q6.amdiff = q6.temp_amc - 37
q7.pmdiff	Difference between Day 7 pm temp and normal (37 ^{o}C)		q7.pmdiff = q7.temp_pmc - 37
q7.amdiff	Difference between Day 7 am temp and normal (37 ^{o}C)		q7.amdiff = q7.temp_amc - 37
q8.pmdiff	Difference between Day 8 pm temp and normal (37 ^{o}C)		q8.pmdiff = q8.temp_pmc - 37
q8.amdiff	Difference between Day 8 am temp and normal (37 ^{o}C)		q8.amdiff = q8.temp_amc - 37
pre_sbp	Baseline Systolic BP (pre-challenge)		
pre_dbp	Baseline Diastolic BP (pre-challenge)		
pre_plsp	Baseline Pulse Pressure (pre-challenge)		pre_plsp = pre_sbp-pre_dbp
pre_map	Baseline Mean Arterial Pressure (pre-challenge)		pre_map = [(2*pre_dbp) + pre_sbp]/3
cbc	*****COMPLETE BLOOD COUNT*****		
cbc.absneut	CBC: absolute neutrophil count (10^3 cells/µL)		
cbc.absmono	CBC: absolute monocyte count (10^3 cells/µL)		
cbc.abslym	CBC: absolute lymphocyte count (10^3 cells/µL)		
cbc.wbc	CBC: total white blood cell count (10^3 cells/µL)		
cbc.pctlym	CBC: % WBCs that are lymphocytes (range: 0-99)		cbc.pctlym = (cbc.abslym/cbc.wbc)*100
cbc.pctmono	CBC: % WBCs that are monocytes (range: 0-99)		cbc.pctmono = (cbc.absmono/cbc.wbc)*100
cbc.pctneut	CBC: % WBCs that are neutrophils (range: 0-99)		cbc.pctneut = (cbc.absneut/cbc.wbc)*100

| INFECTION & COLDS | BIOLOGICAL PATHWAYS | DEMOGRAPHICS | HEALTH PRACTICES | PSYCHOLOGICAL & SOCIAL | SELF-REPORTED HEALTH | TRIAL |

20

DEMOGRAPHICS

VARIABLE NAME	VARIABLE LABEL	VALUES LABELS	FORMULA
DEMO	*****DEMOGRAPHICS DATA*****		
dob_year	date of birth (year)		
age	age at screening		
sex	sex	SEX	
ownedu	participant educational attainment	BCSEDU	
ownedu_str	description of "other" educational attainment		
educatn	OWNEDU recoded so missing with 'CSEs' for OWNEDU_oth coded to '3'	BCSEDU	
spsedu	spouse educational attainment	BCSEDU	
spsedu_str	description of "other" educational attainment		
occupat_str	type of occupation		
employed	any employment	YES/NO	
marstat3	marital status, 3 categories	MARST3	
married	married/marriage-like relationship	MARRIED	
hsepepl	# people living with participant		
hsespous	spouse living with participant	YES/NO	
hsechld	# children living with participant		
hseparnt	# parents living with participant		
hsereltv	# other relatives living with participant		
hsefrnd	# friends living with participant		
hseothr	# "others" living with participant		
hsetot	total # persons in the household		
hserooms	# rooms in house or flat		

| INFECTION & COLDS | BIOLOGICAL PATHWAYS | DEMOGRAPHICS | HEALTH PRACTICES | PSYCHOLOGICAL & SOCIAL | SELF-REPORTED HEALTH | TRIAL |

21

DEMOGRAPHICS **Value Labels for Categorical and Dichotomous Variables**

CODE	VALUE LABELS	CODE	VALUE LABELS
SEX	0=male	YES/NO	0=no
	1=female		1=yes
BCSEDU	0=no schooling	MARST3	0=single
	1=primary education only		1=married
	2=some secondary ed, left school before 16		2=widowed, divorced, separated
	3=secondary ed: completed O-levels		
	4=secondary ed: completed A-levels	MARRIED	0=all others
	5=ge 1 year of University but no degree		1=currently married/in marital-like relationship
	6=University graduate, BA or BSc		
	7=Masters degree, MA or MSc		
	8=higher degree, PhD, MD, or other		

HEALTH PRACTICES

VARIABLE NAME	VARIABLE LABEL	VALUES	FORMULA
HLTHPRCT	*****BEGIN HEALTH PRACTICES DATA*****		
smk	*****SMOKING*****		
smk.cignow	SMK: currently smoke ge 1 cigarette/day	YES/NO	
smk.cigever	SMK: ever smoke ge 1 cigarette/day	YES/NO	
smk.agereg	SMK: age when started smoking regularly		
smk.qtmos	SMK: months since stopped smoking		
smk.qtdate	SMK: when quit smoking (date format)		smk.qtdate=datesum(date.moyr(month, year), (-1*smk.qtmos), "months").
smk.yrsreg	SMK: years regular smoker		
smk.numcig	SMK: avg # cigarettes smoked per day		
smk.mins	SMK: minutes after wake-up have first smoke		
smk.brand	SMK: brand smoke now		
smk.10or20	SMK: 10 or 20 cigarettes in pack		
smk.tar	SMK: tar content	TAR	
smk.fltr	SMK: filter	FILTER	
smk.menth	SMK: menthol	MENTH	
smk.pack	SMK: pack type	PACK	
smk.lngth	SMK: length of brand	LENGTH	
smk.agedly	SMK: age when started smoking daily		
smk.othnow	SMK: currently smoke ge 1 cigar, cigarillo, or pipe/day	YES/NO	
smk.othever	SMK: ever regularly smoke cigars, cigarillos, or pipes	YES/NO	
smk.now	SMK: current daily smoker (cigs or other)	CSMKST	
smk.ever	SMK: ever a daily smoker (cigs or other)	ESMKST	
smk.spouse	SMK: spouse/partner smoke	YES/NO	
smk.spcig	SMK: spouse/partner cigarettes per day		
smk.spcgr	SMK: spouse/partner cigars per day		
smk.sppipe	SMK: spouse/partner pipe bowls per day		
smk.othhm	SMK: others at home smoke	OTHHM	
smk.cowrk	SMK: co-workers smoke	COWRK	
smk.frfam	SMK: friends or relatives smoke	FRFAM	
smk.wkhrs	SMK: weekday hours (per day) with smokers	SMKHRS	

INFECTION & COLDS	BIOLOGICAL PATHWAYS	DEMOGRAPHICS	HEALTH PRACTICES	PSYCHOLOGICAL & SOCIAL	SELF-REPORTED HEALTH	TRIAL

HEALTH PRACTICES

VARIABLE NAME	VARIABLE LABEL	VALUES	FORMULA
smk.wnhrs	SMK: weekend hours (per day) with smokers	SMKHRS	
smk.parnts	SMK: parents smoke	PARSMK	
smk.chldex	SMK: exposure to smoke during childhood/adolescence	CHEXP	
miss.spsmk	SMK: indicates missing spouse smoker data		
miss.cosmk	SMK: indicates missing coworker smoker data		
smk.psvwkhr	SMK: # hours exposed to smoke: Mon-Fri		smk.psvwkhr = smk.wkhrs*5
smk.psvwnhr	SMK: # hours exposed to smoke: Sat-Sun		smk.psvwnhr = smk.wnhrs*2
smk.totpsvhr	SMK: total hours exposed to smoke		smk.totpsvhr = sum(smk.psvwkhr, smk.psvwnhr)
smk.cot1	SMK: pre-challenge serum cotinine (ng/ml)		
smk.cot2	SMK: post-challenge serum cotinine (ng/ml)		
smk.cot_avg	SMK: avg of pre- & post-challenge serum cotinine (ng/ml)		smk.cot_avg = mean (smk.cot1, smk.cot2)
smk.cotstat	SMK: smoker status based on average cotinine ge 15 ng/ml	CSMKST	if (nmiss(smk.cot_avg, smk.now) le 1) smk.cotstat = 0;
			if (smk.cot_avg$\geq$15) or (missing(smk.cot_avg) and smk.now=1)smk.cotstat=1.
smk.years	SMK: # years as daily cigarette smoker		smk.years = age - smk.agereg
smk.packyrs	SMK: avergage # packs smoked per year		smk.packyrs = (smk.numcig/20)*smk.years
alc	*****ALCOHOL CONSUMPTION*****		
alc.wkdays_raw	ALC: # weekdays drink alcohol	WKDAY	
alc.wkdrnks_raw	ALC: avg # alcoholic drinks on weekdays		
alc.wkwine_raw	ALC: avg # glasses of wine on weekdays		
alc.wkliqr_raw	ALC: avg # shots liquor on weekdays		
alc.wkbeer_raw	ALC: avg # beers on weekdays		
alc.wkbrsz_raw	ALC: avg weekday beer size	BRSZ1	
alc.wndays_raw	ALC: # weekend days drink alcohol	WNDAY	
alc.wndrnks_raw	ALC: avg # alcoholic drinks on weekend days		
alc.wnwine_raw	ALC: avg # glasses of wine on weekend days		
alc.wnliqr_raw	ALC: avg # shots liquor on weekend days		
alc.wnbeer_raw	ALC: avg # beers on weekend days		
alc.wnbrsz_raw	ALC: avg weekend day beer size	BRSZ1	
alc.wkdays	ALC: # weekdays drink alcohol (occasional drinkers=0)		if (alc.wkdays_raw lt 6) alc.wkdays = alc.wkdays_raw;
			if (alc.wkdays_raw = 6) alc.wkdays = 0.

HEALTH PRACTICES

VARIABLE NAME	VARIABLE LABEL	VALUES	FORMULA
alc.wndays	ALC: # weekend days drink alcohol (occasional drinkers=0)		if (alc.wndays_raw $\geq$0) and (alc.wndays_raw $\leq$2) alc.wndays=alc.wndays_raw; if (alc.wndays_raw = 6) alc.wndays = 0.
alc.occwk	ALC: occasional weekday drinker (computed)	YES/NO	if (alc.wkdays_raw=6) alc.occwk=1; if (alc.wkdays_raw <6) alc.occwk=0.
alc.occwn	ALC: occasional weekend day drinker (computed)	YES/NO	if (alc.wndays_raw = 6) alc.occwn = 1; if (alc.wndays_raw $\geq$0 and alc.wndays_raw $\leq$2) alc.occwn = 0.
alc.wkwine	ALC: avg # glasses of wine on weekdays		if (alc.wkdays_raw $\geq$1 and alc.wkdays_raw $\leq$5) alc.wkwine=alc.wkwine_raw; if (alc.wkdays_raw = 0 or alc.wkdays_raw = 6) alc.wkwine = 0.
alc.wkliqr	ALC: avg # shots liquor on weekdays		if (alc.wkdays_raw ge 1 and alc.wkdays_raw le 5) alc.wkliqr = alc.wkliqr_raw; if (alc.wkdays_raw = 0 or alc.wkdays_raw = 6) alc.wkliqr = 0.
alc.wkbeer	ALC: avg # beers on weekdays		if (alc.wkdays_raw $\geq$1 and alc.wkdays_raw $\leq$5) alc.wkbeer = alc.wkbeer_raw; if (alc.wkdays_raw = 0 or alc.wkdays_raw = 6) alc.wkbeer = 0.
alc.wnwine	ALC: avg # glasses of wine on weekend days		if (alc.wndays_raw = 1 or alc.wndays_raw = 2) alc.wnwine = alc.wnwine_raw; if (alc.wndays_raw = 0 or alc.wndays_raw = 6) alc.wnwine = 0.
alc.wnliqr	ALC: avg # shots liquor on weekend days		if (alc.wndays_raw = 1 or alc.wndays_raw = 2) alc.wnliqr = alc.wnliqr_raw; if (alc.wndays_raw = 0 or alc.wndays_raw = 6) alc.wnliqr = 0.
alc.wnbeer	ALC: avg # beers on weekend days		if (alc.wndays_raw = 1 or alc.wndays_raw = 2) alc.wnbeer = alc.wnbeer_raw; if (alc.wndays_raw = 0 or alc.wndays_raw = 6) alc.wnbeer = 0.
alc.wkbrsz	ALC: avg weekday beer size	BRSZ2	
alc.wnbrsz	ALC: avg weekend day beer size	BRSZ2	
alc.wkbrvol	ALC: avg volume (oz) of beer consumed on weekdays		if (alc.wkbrsz = 1) alc.wkbrvol = alc.wkbeer*20. if (alc.wkbrsz = 2) alc.wkbrvol = alc.wkbeer*10. if (alc.wkbrsz = 3 or alc.wkbrsz = 4) alc.wkbrvol = alc.wkbeer*12.
alc.wnbrvol	ALC: avg volume (oz) of beer consumed on weekend days		if (alc.wnbrsz = 1) alc.wnbrvol = alc.wnbeer*20. if (alc.wnbrsz = 2) alc.wnbrvol = alc.wnbeer*10. if (alc.wnbrsz = 3 or alc.wnbrsz = 4) alc.wnbrvol = alc.wnbeer*12.
alc.wkbr8oz	ALC: avg # 8oz beers on weekdays		alc.wkbr8oz = alc.wkbrvol/8.
alc.wnbr8oz	ALC: avg # 8oz beers on weekdays		alc.wnbr8oz = alc.wnbrvol/8.
alc.totdays	ALC: total drinking days (computed) per 7-day week		alc.totdays = sum.2(alc.wkdays, alc.wndays).
alc.wkdrnks	ALC: avg # drinks on weekdays (occasional drinkers=0)		alc.wkdrnks = sum(alc.wkwine, alc.wkliqr, alc.wkbr8oz).

INFECTION & COLDS	BIOLOGICAL PATHWAYS	DEMOGRAPHICS	HEALTH PRACTICES	PSYCHOLOGICAL & SOCIAL	SELF-REPORTED HEALTH	TRIAL

HEALTH PRACTICES

VARIABLE NAME	VARIABLE LABEL	VALUES	FORMULA
alc.wndrnks	ALC: avg # drinks on weekend days (occasional drinkers=0)		alc.wndrnks = sum(alc.wnwine, alc.wnliqr, alc.wnbr8oz).
alc.totdrnks	ALC: total drinks consumed (computed) per 7-day week		alc.totdrnks = (alc.wkdrnks*alc.wkdays)+(alc.wndrnks*alc.wndays).
alc.drnkrate	ALC: average drinks consumed per day (ORIGINAL)		alc.drnkrate = (alc.wkwine+alc.wkliqr+alc.wkbeer+alc.wnwine+alc.wnliqr+alc.wnbeer)/7
phys	*****BEGIN PHYSICAL ACTIVITY DATA*****		
act.wrksit	ACT: time at work spent sitting	WRKSIT	
act.wrkwalk	ACT: time at work spent walking	WRKWLK	
act.wrkdst	ACT: yards/miles walked traveling to/from work		
act.wrktrans	ACT: primary means of transportation to/from work	WRKTRNS	
act.wrkhvy	ACT: carry heavy things at work	WRKHVY	
act.wrkhrs	ACT: hours per week spent at work	WRKHRS	
act.jog	ACT: walk, run, or jog	FRQ012	
act.swim	ACT: swim or do aerobic exercise	FRQ012	
act.house	ACT: physical work around house/flat	FRQ012	
act.high	ACT: participate in high activity sports	FRQ012	
act.low	ACT: participate in low activity sports	FRQ012	
act.tv	ACT: watch television	TVREAD	
act.read	ACT: listen to radio or read	TVREAD	
act.movie	ACT: attend movies, concerts, sports events...in last year	MOVIE	
act.aerobic	ACT: Physical Activity - total aerobic exercise		act.aerobic = mean.2(act.job, act.swim, act.house)*3.
act.recsprts	ACT: Physical Activity - total recreational sports		act.recsprts = mean.2(act.high, act.low)*2.
act.passvrec	ACT: Physical Activity - total passive recreation		act.passrec = mean.2(act.tv, act.read)*2.
act.physwork	ACT: Physical Activity - total physical activity at work		act.physwork = mean.2(act.wrksit, act.wrkwalk, act.wrkhvy)*3.
act.commute	ACT: Physical Activity - commute to and from work		act.commute = mean.2(act.wrkdst, act.wrktrans, act.wrkhrs)*3.
slp	*****BEGIN SLEEP DATA*****		
slp.hrs	SLP: average hours sleep		
slp.rest	SLP: feel rested	SLPFRQ	
slp.diff	SLP: difficulty falling asleep	SLPFRQR	
slp.early	SLP: awaken earlier than usual	SLPFRQR	
slp.quality	SLP: sleep quality score (higher values = better sleep)		slp.quality = mean.2(slp.rest, slp.diff, slp.early)*3.

HEALTH PRACTICES

VARIABLE NAME	VARIABLE LABEL	VALUES	FORMULA
diet	*****DIET*****		
ehq.brkfst	EHQ: how often eat breakfast	EHQ1	
ehq.btwn	EHQ: how often eat between meals	EHQ1	
ehq.vitmn	EHQ: how often take vitamins	EHQ2	
ehq.fruit	EHQ: how often eat fruit/drink fruit juice	EHQ3	
ehq.veg	EHQ: how often eat green or yellow vegetables	EHQ3	
ehq.diet	EHQ: Eating Habits Q'naire - healthy diet score		ehq.diet = mean.2(ehq.brkfst*(5/4), ehq.fruit, ehq.veg)*3.

HEALTH PRACTICES **Value Labels for Categorical and Dichotomous Variables (1/2)**

CODE	VALUE LABELS	CODE	VALUE LABELS	CODE	VALUE LABELS
YES/NO	0=no	COWRK	0=none	WKDAY	0=never drink on a weekday
	1=yes		1=few		1=1 day
			2=some		2=2 days
TAR	0=low		3=most		3=3 days
	1=medium		4=all		4=4 days
	2=high				5=5 days
		FRFAM	0=none or not applicable		6=occasionally drink on a weekday
FILTER	0=nonfilter		1=few		
	1=filster		2=some	WNDAY	0=never drink on a weekend day
			3=most		1=1 day
MENTH	0=nonmenthol		4=all		2=both days
	1=menthol				6=occasionally drink on a weekend day
		SMKHRS	0=0 hours		
PACK	0=soft pack		1=1-3 hours	BRSZ1	1=pints
	1=hard pack		2=4-6 hours		2=half pints
			3=7-9 hours		3=bottles
LENGTH	0=regular		4=10 or more hours		4=cans
	1=king				
		PARSMK	0=neither smoked	BRSZ2	0=do not drink beer
CSMKST	0=non-smoker		1=mother smoked		1=pints
	1=smoker		2=father smoked		2=half pints
			3=both smoked		3=bottles
ESMKST	0=never smoker				4=cans
	1=former regular smoker	CHEXP	0=no exposure		
			1=light exposure		
OTHHM	0=no, or live alone		2=medium exposure		
	1=yes		3=heavy exposure		

HEALTH PRACTICES **Value Labels for Categorical and Dichotomous Variables (2/2)**

CODE	VALUE LABELS	CODE	VALUE LABELS	CODE	VALUE LABELS
WRKSIT	0=practically all the time	FRQ012	0=never or very infrequently	EHQ1	0=not at all during the past year
	1=more than 1/2		1=sometimes		1=occasionally, but < once a month
	2=about 1/2		2=frequently		2=once a month or more
	3=less than 1/2				3=once a week or more
	4=almost none	TVREAD	0=once a week or less		4=daily or almost daily
			1=several times a week		
WRKWLK	0=almost none of the time		2=daily, less than 2 hours	EHQ2	0=never or occasionally (< once a month)
	1=less than 1/2		3=2 to 4 hours a day		1=about once a week
	2=about 1/2		4=more than 4 hours a day		2=about 2 or 3 times a week
	3=more than 1/2				3=about once a day
	4=practically all	MOVIE	0=did this lt once a month		4=more than once a day
			1=about once a month		
WRKTRNS	0=work at home		2=about once every 2 weeks	EHQ3	0=never or occasionally (< once a week)
	1=other modes of transport		3=about once a week		1=about once a week
	2=underground		4=2 or more times a week		2=about 2 or 3 times a week
	3=car, bus, train, or ferry				3=about 4 or 5 times a week
	4=walk or bicycle	SLPFRQ	0=never		4=about once a day
			1=almost never		5=more than once a day
WRKHVY	0=never or very infrequently		2=sometimes		
	2=sometimes		3=fairly often		
	4=frequently		4=very often		
WRKHRS	1=less than 25 hours	SLPFRQR	0=very often		
	2=25-34 hours		1=fairly often		
	3=35-40 hours		2=sometimes		
	4=41-50 hours		3=almost never		
	5=51+ hours		4=never		

| INFECTION & COLDS | BIOLOGICAL PATHWAYS | DEMOGRAPHICS | HEALTH PRACTICES | PSYCHOLOGICAL & SOCIAL | SELF-REPORTED HEALTH | TRIAL |

29

PSYCHOLOGICAL AND SOCIAL

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
PSYCHSOC	*****BEGIN PSYCHOLOGICAL AND SOCIAL DATA*****		
mood	*****MOOD STATES*****		
mood.attnt	MOOD: attentive (past week)	RATE04	
mood.distr	MOOD: distressed (past week)		
mood.proud	MOOD: proud (past week)		
mood.nervs	MOOD: nervous (past week)		
mood.sad	MOOD: sad (past week)		
mood.actv	MOOD: active (past week)		
mood.frnd	MOOD: friendly (past week)		
mood.ang	MOOD: angry (past week)		
mood.disslf	MOOD: dissatisfied with self (past week)		
mood.tired	MOOD: tired (past week)		
mood.hlthy	MOOD: healthy (past week)		
mood.calm	MOOD: calm (past week)		
mood.glty	MOOD: guilty (past week)		
mood.scrd	MOOD: scared (past week)		
mood.hpy	MOOD: happy (past week)		
mood.strng	MOOD: strong (past week)		
mood.conf	MOOD: confident (past week)		
mood.angslf	MOOD: angry at self (past week)		
mood.upset	MOOD: upset (past week)		
mood.alert	MOOD: alert (past week)		
mood.irrit	MOOD: irritated (past week)		
mood.deprs	MOOD: depressed (past week)		
mood.enth	MOOD: enthusiastic (past week)		
mood.slpy	MOOD: sleepy (past week)		
mood.warm	MOOD: warmhearted (past week)		
mood.exctd	MOOD: excited (past week)		
mood.hostl	MOOD: hostile (past week)		

| INFECTION & COLDS | BIOLOGICAL PATHWAYS | DEMOGRAPHICS | HEALTH PRACTICES | PSYCHOLOGICAL & SOCIAL | SELF-REPORTED HEALTH | TRIAL |

30

PSYCHOLOGICAL AND SOCIAL

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
mood.shky	MOOD: shaky (past week)	RATE04	
mood.dtrmd	MOOD: determined (past week)		
mood.cntnt	MOOD: content (past week)		
mood.tired_r	MOOD: tired (past week) - reversed		
mood.calm_r	MOOD: calm (past week) - reversed		
mood.slpy_r	MOOD: sleepy (past week) - reversed		
mood.cntnt_r	MOOD: content (past week) - reversed		
mood.positive	MOOD: Mood States Scale - State Positive Mood		mood.positive = mean.11(mood.attnt, mood.proud, mood.actv, mood.frnd, mood.hlthy, mood.hpy, mood.strng, mood.conf, mood.alert, mood.enth, mood.warm, mood.exctd, mood.dtrmd)*13.
mood.negative	MOOD: Mood States Scale - State Negative Mood		mood.negative = mean.13(mood.distr, mood.nervs, mood.sad, mood.ang, mood.disslf, mood.calm_r, mood.glty, mood.scrd, mood.angslf, mood.upset, mood.irrit, mood.deprs, mood.hostl, mood.shky, mood.cntnt_r)*15.
epi	*****EXTRAVERSION/INTROVERSION*****		
epi.excit	EPI: long for excitement	YES/NO	
epi.crfree	EPI: usually carefree		
epi.thnkov_r	EPI: think things over - reversed	YES/NOR	
epi.stpthnk	EPI: without stopping and thinking		
epi.dare	EPI: anything for a dare		
epi.shy_r	EPI: shy - reversed		
epi.spur	EPI: spur of the moment		
epi.read_r	EPI: prefer reading to meeting - reversed		
epi.likgo	EPI: like going out		
epi.fwfrnds_r	EPI: few but special friends - reversed		
epi.shout	EPI: shout back		
epi.letgo	EPI: let yourself go		
epi.lively	EPI: very lively		
epi.quiet_r	EPI: mostly quiet - reversed		
epi.book_r	EPI: book or talk - reversed		
epi.jokes_r	EPI: hate jokes - reversed		

| INFECTION & COLDS | BIOLOGICAL PATHWAYS | DEMOGRAPHICS | HEALTH PRACTICES | PSYCHOLOGICAL & SOCIAL | SELF-REPORTED HEALTH | TRIAL |

31

PSYCHOLOGICAL AND SOCIAL

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
epi.actquik	EPI: act quickly	YES/NO	
epi.slow_r	EPI: slow and unhurried - reversed	YES/NOR	
epi.tlkstr	EPI: talking to a stranger		
epi.likppl	EPI: unhappy without people		
epi.prty_r	EPI: hard to enjoy lively party - reversed		
epi.getlife	EPI: get life into dull party		
epi.attn_r	EPI: like work that requires close attention - reversed		
epi.slfconf	EPI: self-confident		
epi.pranks	EPI: like playing pranks		
epi.extravrsn	EPI: Eysenck Personality Inventory Total Extraversion		epi.extravsn=mean.20(epi.excit, epi.crfree, epi.thnkov_r, epi.stpthnk, epi.dare, epi.shy_r, epi.spur, epi.read_r, epi.likgo, epi.fwfrnds_r, epi.shout, epi.letgo, epi.lively, epi.quiet_r, epi.book_r, epi.jokes_r, epi.actquik,epi.slow_r, epi.tlkstr, epi.likppl, epi.prty_r, epi.getlife, epi.attn_r, epi.slfconf, epi.pranks)*25.
epi.impscr	EPI: Eysenck Personality Inventory Impulsivity Subscale		epi.impscr = mean.7(epi.excit, epi.crfree, epi.thnkov_r, epi.stpthnk, epi.dare, epi.spur, epi.shout, epi.actquik, epi.slow_r)*9.
epi.socscr	EPI: Eysenck Personality Inventory Sociability Subscale		epi.socscr = mean.10(epi.shy_r, epi.read_r, epi.likgo, epi.fwfrnds_r, epi.letgo, epi.lively, epi.quiet_r, epi.book_r, epi.jokes_r, epi.tlkstr, epi.likppl, epi.prty_r, epi.getlife)*13.
isel	****INTERPERSONAL SUPPORT EVALUATION LIST (ISEL)****		
isel.trst	ISEL: several people I trust to help solve my problems	TF03	
isel.fix	ISEL: need help fixing appliance, car...someone would help me		
isel.intr_r	ISEL: friends more interesting than I am (reversed)	TF03R	
isel.prid	ISEL: someone takes pride in my accomplishments		
isel.lone	ISEL: when lonely, several people I can talk to		
isel.intm_r	ISEL: no one to talk to about intimate personal problems		
isel.talk	ISEL: often meet/talk with family or friends		
isel.thnk	ISEL: people think highly of me		
isel.ride_r	ISEL: need ride...have trouble finding someone to take me (rev)		
isel.circ_r	ISEL: not always included by my circle of friends (reversed)		

INFECTION & COLDS	BIOLOGICAL PATHWAYS	DEMOGRAPHICS	HEALTH PRACTICES	PSYCHOLOGICAL & SOCIAL	SELF-REPORTED HEALTH	TRIAL

32

PSYCHOLOGICAL AND SOCIAL

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
isel.obj_r	ISEL: no one to give me objective view...how handling problems (rev)	TF03R	
isel.enjy	ISEL: several people I enjoy spending time with	TF03	
isel.solv_r	ISEL: friends feel I'm not good at helping w/their problems (rev)		
isel.doc_r	ISEL: need to see doc...have trouble finding someone to take me (rev)		
isel.trip_r	ISEL: want to take a day trip...have trouble finding someone to go (rev)		
isel.stay	ISEL: need place to stay...someone would put me up		
isel.fear_r	ISEL: no one to share my private worries/fears with (reversed)		
isel.sick	ISEL: if sick...easily find someone to help with chores		
isel.advc	ISEL: someone I can turn to for advice on family problems		
isel.good	ISEL: as good at doing things as most others are		
isel.mvie	ISEL: want to see a movie...easily find someone to go with me		
isel.pers	ISEL: need suggestions on personal problems...someone to turn to		
isel.loan	ISEL: need a loan of $100...someone I could get it from		
isel.conf_r	ISEL: people do not have confidence in me (reversed)		
isel.same_r	ISEL: people I know do not enjoy the same things I do (reversed)		
isel.job	ISEL: someone I could turn to for career/job advice		
isel.invt_r	ISEL: don't get invited to do things with others (reversed)		
isel.succ_r	ISEL: friends more successful at making life changes than I am (rev)		
isel.lkaft_r	ISEL: need to go out of town...no one to look after my house		
isel.fina_r	ISEL: no one I can trust for financial advice (reversed)		
isel.lnch	ISEL: want to have lunch...someone would join me		
isel.sats	ISEL: more satisfied with life than others are		
isel.strn	ISEL: if stranded...someone would come get me		
isel.brth_r	ISEL: no one I know would throw a birthday party for me (reversed)		
isel.car_r	ISEL: difficult to find someone to lend me their car (reversed)		
isel.fam_r	ISEL: family crisis...no one to give me advice (reversed)		
isel.clos	ISEL: closer to my friends than others are to theirs		
isel.one	ISEL: know at least one person whose advice I trust		
isel.help_r	ISEL: need help moving...hard time finding someone to help (reversed)		
isel.pace_r	ISEL: hard time keeping pace with my friends (reversed)		

INFECTION & COLDS	BIOLOGICAL PATHWAYS	DEMOGRAPHICS	HEALTH PRACTICES	PSYCHOLOGICAL & SOCIAL	SELF-REPORTED HEALTH	TRIAL

33

PSYCHOLOGICAL AND SOCIAL

VAR NAME	VARIABLE LABELS	VALUES	FORMULA
isel10apprs	ISEL: Perceived Social Support 10-item Appraisal subscore		isel10apprs = mean.8(isel.trst, isel.intm_r, isel.obj_r, isel.fear_r, isel.advc, isel.pers, isel.job, isel.fina_r, isel.fam_r, isel.one)*10.
isel10belng	ISEL: Perceived Social Support 10-item Belonging subscore		isel10belng = mean.8(isel.lone, isel.talk, isel.circ_r, isel.enjy, isel.trip_r, isel.mvie, isel.same_r, isel.invt_r, isel.lnch, isel.brth_r)*10.
isel10tang	ISEL: Perceived Social Support 10-item Tangible subscore		isel10tang = mean.8(isel.fix, isel.ride_r, isel.doc_r, isel.stay, isel.sick,. isel.loan, isel.lkaft_r, isel.strn, isel.car_r, isel.help_r)*10
isel10estm	ISEL: Perceived Social Support 10-item Esteem subscore		isel10estm = mean.8(isel.intr_r, isel.prid, isel.thnk, isel.solv_r, isel.good, isel.conf_r, isel.succ_r, isel.sats, isel.clos, isel.pace_r)*10.
isel40tot	ISEL: Perceived Social Support 40-item Overall Total Support		isel40tot = sum.4(isel10apprs, isel10belng, isel10tang, isel10estm).
isel4apprs	ISEL: Perceived Social Support 4-item Appraisal subscore		isel4apprs = mean.3(isel.fear_r, isel.advc, isel.pers, isel.fam_r)*4.
isel4belng	ISEL: Perceived Social Support 4-item Belonging subscore		isel4belng = mean.3(isel.trip_r, isel.mvie, isel.invt_r, isel.lnch)*4.
isel4tang	ISEL: Perceived Social Support 4-item Tangible subscore		isel4tang = mean.3(isel.sick, isel.lkaft_r, isel.strn, isel.help_r)*4.
isel12tot	ISEL: Perceived Social Support 12-item Overall Total Support		isel12tot = sum.3(isel4apprs, isel4belng, isel4tang).
sni	*****SOCIAL NETWORK INVENTORY (SNI)*****		
sni.marstat	SNI: marital status	SNIMAR	
sni.hcc.spouse	SNI - high contact: spouse/partner	YES/NO	if (sni.marstat=1) sni.hcc.spouse=1; if (sni.marstat >1) sni.hcc.spouse=0.
sni.chldrn	SNI: # children	SNINUM1	
sni.chldlvng	SNI: # children living with you	SNINUM1	
sni.hcc.chldrn	SNI - high contact: # children talk with ≥every 2 wks	SNINUM1	
sni.parnts_raw	SNI: living parents (RAW)	SNIPAR	
sni.parnts	SNI: # living parents		if (sni.parnts_raw = 0) sni.parnts = 0. if (sni.parnts_raw = 1 or sni.parnts_raw = 2) sni.parnts = 1. if (sni.parnts_raw = 3) sni.parnts = 2.
sni.hcc.parnts_raw	SNI: parents talk with ≥every 2 wks (RAW)	SNIPAR	
sni.hcc.parnts	SNI - high contact: # parents talk with ≥every 2 wks		As above, substituting sni.hcc.parnts_raw for sni.parnts_raw
sni.inlaws_raw	SNI: living parents-in-law (RAW)	SNIINL	

INFECTION & COLDS	BIOLOGICAL PATHWAYS	DEMOGRAPHICS	HEALTH PRACTICES	PSYCHOLOGICAL & SOCIAL	SELF-REPORTED HEALTH	TRIAL

34

PSYCHOLOGICAL AND SOCIAL

VAR NAME	VARIABLE LABELS	VALUES	FORMULA
sni.inlaws	SNI: # living parents-in-law		if (sni.inlaws_raw = 0) sni.inlaws = 0.
			if (sni.inlaws_raw = 1 or sni.inlaws_raw = 2) sni.inlaws = 1.
			if (sni.inlaws_raw = 3) sni.inlaws = 2.
sni.hcc.inlaws_raw	SNI: parents-in-law talk with ≥every 2 wks (RAW)	SNIINL	
sni.hcc.inlaws	SNI - high contact: # parents-in-law talk with ≥every 2 wks		As above, substituting sni.hcc.inlaws_raw for sni.inlaws_raw
sni.reltvs	SNI: # other close relatives	SNINUM1	
sni.hcc.reltvs	SNI - high contact: # close relatives talk with ≥every 2 wks	SNINUM1	
sni.frnds	SNI: # close friends	SNINUM1	
sni.hcc.frnds	SNI - high contact: # close friends talk with ≥every 2 wks	SNINUM1	
sni.church	SNI: belong to church, temple, or other religious group	YES/NO	
sni.chrchfrq	SNI: how often attend church, temple, etc. per month	SNINUM1	
sni.hcc.chrch	SNI - high contact: #church members talk with ≥every 2 wks	SNINUM1	
sni.othgrp	SNI: belong to other group	YES/NO	
sni.othgrpfrq	SNI: how often attend other group meetings per month	SNINUM1	
sni.hcc.othgrp	SNI: # other group members you talk with ≥every 2 wks	SNINUM1	
sni.employ_raw	SNI: employed (RAW)	SNIEMP1	
sni.hcc.suprvs	SNI - high contact: # people you supervise at work	SNINUM1	
sni.hcc.cowrks	SNI - high contact: # coworkers talk with ≥every 2 wks	SNINUM1	
sni.class	SNI: attend classes	YES/NO	
sni.hcc.stdnts	SNI - high contact: # fellow students talk with ≥every 2 wks	SNINUM1	
sni.hcc.nghbrs	SNI - high contact: # neighbors talk with ≥every 2 wks	SNINUM2	
sni.volgrp	SNI: belong to a volunteer group	YES/NO	
sni.hcc.volntrs	SNI - high contact: #fellow volunteers talk w/ ≥every 2 wks	SNINUM1	
sni.hcr.married	SNI - high contact role: married/marriage-like relationship	SNIROLE	if (sni.hcc.spouse = 1) sni.hcr.married=1; if (sni.hcc.spouse=0) sni.hcr.married = 0.
sni.hcr.parnt	SNI - high contact role: parent		if (sni.hcc.chldrn >0) sni.hcr.parnt = 1; if (sni.hcc.chldrn=0) sni.hcr.parnt = 0.
sni.hcr.child	SNI - high contact role: child		if (sni.hcc.parnts >0) sni.hcr.child = 1; if (sni.hcc.parnts=0) sni.hcr.child = 0.
sni.hcr.inlaw	SNI - high contact role: child-in-law		if (sni.hcc.inlaws >0) sni.hcr.inlaw = 1; if (sni.hcc.inlaws=0) sni.hcr.inlaw = 0.
sni.hcr.relat	SNI - high contact role: close relative		if (sni.hcc.reltvs >0) sni.hcr.relat = 1; if (sni.hcc.reltvs = 0) sni.hcr.relat = 0.

| INFECTION & COLDS | BIOLOGICAL PATHWAYS | DEMOGRAPHICS | HEALTH PRACTICES | PSYCHOLOGICAL & SOCIAL | SELF-REPORTED HEALTH | TRIAL |

35

PSYCHOLOGICAL AND SOCIAL

VAR NAME	VARIABLE LABELS	VALUES	FORMULA
sni.hcr.frnd	SNI - high contact role: close friend	SNIROLE	if (sni.hcc.frnds >0) sni.hcr.frnd = 1; if (sni.hcc.frnds = 0) sni.hcr.frnd = 0.
sni.hcr.chrch	SNI - high contact role: church/temple member		if (sni.hcc.chrch >0) sni.hcr.chrch = 1; if (sni.hcc.chrch=0) sni.hcr.chrch = 0.
sni.hcr.othgrp	SNI - high contact role: other group member		if (sni.hcc.othgrp>0) sni.hcr.othgrp=1; if (sni.hcc.othgrp=0) sni.hcr.othgrp=0.
sni.hcr.suprv	SNI - high contact role: supervisor at work		if (sni.hcc.suprvs >0) sni.hcr.suprv=1; if (sni.hcc.suprvs=0) sni.hcr.suprv = 0.
sni.hcr.cowrk	SNI - high contact role: coworker		if (sni.hcc.cowrks >0) sni.hcr.cowrk=1; if (sni.hcc.cowrks=0) sni.hcr.cowrk=0.
sni.hcr.volntr	SNI - high contact role: volunteer		if (sni.hcc.volntrs >0) sni.hcr.volntr=1; if (sni.hcc.volntrs=0) sni.hcr.volntr=0.
sni.hcr.studnt	SNI - high contact role: student		if (sni.hcc.stdnts >0) sni.hcr.studnt=1; if (sni.hcc.stdnts=0) sni.hcr.studnt=0.
sni.hcr.nghbr	SNI - high contact role: neighbor		if (sni.hcc.nghbrs >0) sni.hcr.nghbr=1; if (sni.hcc.nghbrs=0) sni.hcr.nghbr=0.
sni.diversity	SNI: Social Network Index - total social roles		sni.integration =sum(sni.hcr.married, sni.hcr.parnt, sni.hcr.child, sni.hcr.inlaw, sni.hcr.relat, sni.hcr.frnd, sni.hcr.chrch, sni.hcr.othgrp, sni.hcr.suprv, sni.hcr.cowrk, sni.hcr.volntr, sni.hcr.studnt, sni.hcr.nghbr).
sni.network	SNI: Social Network Index - total # of network members		sni.network = sum(sni.hcc.spouse, sni.hcc.parnts, sni.hcc.chldrn, sni.hcc.inlaws, sni.hcc.reltvs, sni.hcc.frnds, sni.hcc.chrch, sni.hcc.othgrp, sni.hcc.suprvs, sni.hcc.cowrks, sni.hcc.volntrs, sni.hcc.stdnts, sni.hcc.nghbrs).
evnts	*****LIFE EVENTS LIST*****		
lel.move	LEL: moved in last 12 months	YES/NO	
lel.move.new	LEL: new neighborhood relative to old	LELSAME	
lel.move.exp	LEL: moving experience	LELEXP	
lel.rombrk	LEL: broken off engagement/relationship in last 12 months	YES/NO	
lel.rombrk.exp	LEL: feelings about breaking up	LELEXP	
lel.mar	LEL: get married in last 12 months	YES/NO	
lel.mar.wnt	LEL: wanted to get married	YES/NO	
lel.mar.exp	LEL: getting married experience	LELEXP	
lel.death	LEL: someone close died in last 12 months	YES/NO	
lel.dth.sp	LEL: spouse/intimate friend	YES/NO	

INFECTION & COLDS	BIOLOGICAL PATHWAYS	DEMOGRAPHICS	HEALTH PRACTICES	PSYCHOLOGICAL & SOCIAL	SELF-REPORTED HEALTH	TRIAL

36

PSYCHOLOGICAL AND SOCIAL

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
lel.dth.pa	LEL: parent	YES/NO	
lel.dth.inlw	LEL: spouse's parent		
lel.dth.sib	LEL: brother or sister		
lel.dth.ch	LEL: child		
lel.dth.rel	LEL: other relatives		
lel.dth.fr	LEL: friend		
lel.dth.oth	LEL: other		
lel.divrc	LEL: separated/divorced in last 12 months	YES/NO	
lel.divrc.wnt	LEL: wanted to get separated/divorced	YES/NO	
lel.divrc.exp	LEL: separation/divorce experience	LELEXP	
lel.frbrk	LEL: break up with close friend in last 12 months	YES/NO	
lel.frbrk.wnt	LEL: wanted to break up with friend	YES/NO	
lel.frbrk.exp	LEL: breaking up experience	LELEXP	
lel.relwrs	LEL: significant relationship get worse in last 12 months	YES/NO	
lel.rlwrs.boss	LEL: boss	YES/NO	
lel.rlwrs.sp	LEL: spouse/partner		
lel.rlwrs.fr	LEL: friend		
lel.rlwrs.ch	LEL: child		
lel.rlwrs.pa	LEL: parent		
lel.rlwrs.rel	LEL: other family member		
lel.child	LEL: have or adopt a child in last 12 months	YES/NO	
lel.child.frst	LEL: first child	YES/NO	
lel.child.plan	LEL: planned to have child	YES/NO	
lel.child.exp	LEL: experience of having/adjusting to child	LELEXP	
lel.accdnt	LEL: self, close friend, or family member in accident in last 12 months	YES/NO	
lel.acc.slf	LEL: self	YES/NO	
lel.acc.sp	LEL: spouse/partner		
lel.acc.ch	LEL: child		
lel.acc.pa	LEL: parent		
lel.acc.inlw	LEL: spouse's parent		

INFECTION & COLDS	BIOLOGICAL PATHWAYS	DEMOGRAPHICS	HEALTH PRACTICES	PSYCHOLOGICAL & SOCIAL	SELF-REPORTED HEALTH	TRIAL

37

PSYCHOLOGICAL AND SOCIAL

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
lel.acc.sib	LEL: brother or sister	YES/NO	
lel.acc.fr	LEL: friend		
lel.acc.oth	LEL: other		
lel.hosp	LEL: self, close friend, or family member hospitalized in last 12 mos	YES/NO	
lel.hosp.slf	LEL: self	YES/NO	
lel.hosp.sp	LEL: spouse/partner		
lel.hosp.ch	LEL: child		
lel.hosp.pa	LEL: parent		
lel.hosp.inlw	LEL: spouse's parent		
lel.hosp.sib	LEL: brother or sister		
lel.hosp.fr	LEL: friend		
lel.hosp.oth	LEL: other		
lel.slfpreg	LEL: pregnant in last year	YES/NO	
lel.slfprg.plan	LEL: pregnancy planned	LELPLAN	
lel.slfprg.exp	LEL: experience of being pregnant	LELEXP	
lel.wfprg	LEL: wife/girlfriend pregnant in last year	YES/NO	
lel.wfprg.plan	LEL: wife/girlfriend's pregnancy planned	LELPLAN	
lel.wfprg.exp	LEL: feelings about wife/girlfriend's pregnancy	LELEXP	
lel.slfabrt	LEL: had an abortion in last 12 months	YES/NO	
lel.wfabrt	LEL: wife/girlfriend had an abortion in last 12 months	YES/NO	
lel.slfmscr	LEL: had a miscarriage or stillbirth in last 12 months	YES/NO	
lel.wfmscr	LEL: wife/girlfriend had a miscarriage or stillbirth in last 12 mos	YES/NO	
lel.job	LEL: self or spouse/partner had change in job status in last 12 mos	YES/NO	
lel.job.who	LEL: who changed job status	LEWHO1	
lel.job.why	LEL: reason left job	LELJOB	
lel.job.stay	LEL: could have stayed in old job	YES/NO	
lel.job.exp	LEL: feelings about leaving job	LELEXP	
lel.fail	LEL: business/investment loss/failure in last 12 months	YES/NO	
lel.fail.who	LEL: who experienced loss/failure	LEWHO1	
lel.disap	LEL: work or education problem/disappointment in last 12 months	YES/NO	

| INFECTION & COLDS | BIOLOGICAL PATHWAYS | DEMOGRAPHICS | HEALTH PRACTICES | PSYCHOLOGICAL & SOCIAL | SELF-REPORTED HEALTH | TRIAL |

38

PSYCHOLOGICAL AND SOCIAL

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
lel.disap.who	LEL: who experienced problem/disappointment	LEWHO1	
lel.disap.wht	LEL: what was problem/disappointment	LELDIS	
lel.succ	LEL: success at work or educational course in last 12 months	YES/NO	
lel.succ.who	LEL: who experienced success	LEWHO1	
lel.finan	LEL: significant change in personal finances in last 12 months	YES/NO	
lel.finan.rate	LEL: change for better or worse	LELFIN	
lel.hsebrk	LEL: house broken into/burgled in last 12 months	YES/NO	
lel.asslt	LEL: assaulted or mugged in last 12 months	YES/NO	
lel.asslt.slf	LEL: self	YES/NO	
lel.asslt.sp	LEL: spouse/partner		
lel.asslt.ch	LEL: child		
lel.asslt.pa	LEL: parent		
lel.asslt.sib	LEL: brother or sister		
lel.asslt.oth	LEL: other		
lel.behav	LEL: behavior of family member a problem in last 12 months	YES/NO	
lel.behv.sp	LEL: spouse/partner	YES/NO	
lel.behv.ch	LEL: child		
lel.behv.pa	LEL: parent		
lel.behv.sib	LEL: brother or sister		
lel.behv.oth	LEL: other		
lel.court	LEL: court appearance in last 12 months	YES/NO	
lel.court.who	LEL: who appeared in court	LEWHO1	
lel.court.exp	LEL: rating of court experience	LELEXP	
lel.pet	LEL: pet die, get lost, or given away in last 12 months	YES/NO	
lel.addevnts	LEL: any additional important events	YES/NO	
lel.evnt1.who	LEL: event 1 who	LEWHO2	
lel.evnt1_str	LEL: event 1		
lel.evnt1.wnt	LEL: wanted event 1 to happen	YES/NO	
lel.evnt1.exp	LEL: rating of event 1	LELEXP	
lel.evnt2.who	LEL: event 2 who	LEWHO2	

INFECTION & COLDS	BIOLOGICAL PATHWAYS	DEMOGRAPHICS	HEALTH PRACTICES	PSYCHOLOGICAL & SOCIAL	SELF-REPORTED HEALTH	TRIAL

39

PSYCHOLOGICAL AND SOCIAL

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
lel.evnt2_str	LEL: event 2		
lel.evnt2.wnt	LEL: wanted event 2 to happen	YES/NO	
lel.evnt2.exp	LEL: rating of event 2	LELEXP	
lel.evnt3.who	LEL: event 3 who	LEWHO2	
lel.evnt3_str	LEL: event 3		
lel.evnt3.wnt	LEL: wanted event 3 to happen	YES/NO	
lel.evnt3.exp	LEL: rating of event 3	LELEXP	
lel.preg	LEL: you or wife/partner been pregnant in last year	YES/NO	if (sex = 0) lev.preg = lev.wfprg; if (sex = 1) lev.preg = lev.slfprg.
lel.abort	LEL: you or wife/partner had abortion in last year	YES/NO	if (sex = 0) lev.abort = lev.wfabrt; if (sex=1) lev.abort = lev.slfabrt.
lel.miscrg	LEL: you or wife/partner had miscarriage in last year	YES/NO	if (sex=0) lev.miscrg=lev.wfmscr; if (sex=1) lev.miscrg= lev.slfmiscrg.
lel.move.ne	LEL: moving was negative event	YES/NO	do if lev.move.exp ge 1 and lev.move.exp le 3.
lel.move.pe	LEL: moving was positive event	YES/NO	lev.move.ne = 0. lev.move.pe = 1. end if. do if lev.move.exp ge 4 and lev.move.exp le 6. lev.move.ne = 1. lev.move.pe = 0. end if.
lel.rombrk.ne	LEL: romantic break-up was negative event	YES/NO	
lel.rombrk.pe	LEL: romantic break-up was positive event		
lel.mar.ne	LEL: marriage was negative event		
lel.mar.pe	LEL: marriage was positive event		
lel.divrc.ne	LEL: separation/divorce was negative event		All positive and negative count items were computed using the same formula as that presented for moving (see above), save for the substitution of relevant variables.
lel.divrc.pe	LEL: separation/divorce was positive event		
lel.frbrk.ne	LEL: break-up with friend was negative event		
lel.frbrk.pe	LEL: break-up with friend was positive event		
lel.child.ne	LEL: having/adopting child was negative event		
lel.child.pe	LEL: having/adopting child was positive event		
lel.slfprg.ne	LEL: own pregnancy was negative event		

INFECTION & COLDS	BIOLOGICAL PATHWAYS	DEMOGRAPHICS	HEALTH PRACTICES	PSYCHOLOGICAL & SOCIAL	SELF-REPORTED HEALTH	TRIAL

40

PSYCHOLOGICAL AND SOCIAL

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
lel.slfprg.pe	LEL: own pregnancy was negative event	YES/NO	
lel.wfprg.ne	LEL: wife/girlfriend's pregnancy was negative event		
lel.wfprg.pe	LEL: wife/girlfriend's pregnancy was positive event		
lel.slfabrt.ne	LEL: own abortion was negative event		
lel.wfabrt.ne	LEL: wife/girlfriend's abortion was negative event		
lel.slfmscr.ne	LEL: own miscarriage was negative event		
lel.wfmscr.ne	LEL: wife/girlfriend's miscarriage was negative event		
lel.preg.ne	LEL: own or wife/girlfriend's pregnancy was negative event		
lel.preg.pe	LEL: own or wife/girlfriend's pregnancy was positive event		
lel.abort.ne	LEL: own or wife/girlfriend's abortion was negative event		
lel.miscrg.ne	LEL: own or wife/girlfriend's miscarriage was negative event		
lel.job.ne	LEL: own or spouse/partner's job change was negative event		
lel.job.pe	LEL: own or spouse/partner's job change was positive event		
lel.fail.ne	LEL: business/investment loss/failure was negative event		
lel.disap.ne	LEL: work/education disappointment was negative event		
lel.succ.pe	LEL: work/education success was positive event		
lel.finan.ne	LEL: change in finances was negative event		
lel.finan.pe	LEL: change in finances was positive event		
lel.hsebrk.ne	LEL: housebreaking/burglary was negative event		
lel.court.ne	LEL: court appearance was negative event		
lel.court.pe	LEL: court appearance was positive event		
lel.pet.ne	LEL: pet loss/death was negative event		
lel.evnt1.ne	LEL: additional event #1 was negative event		
lel.evnt1.pe	LEL: additional event #1 was positive event		
lel.evnt2.ne	LEL: additional event #2 was negative event		
lel.evnt2.pe	LEL: additional event #2 was positive event		
lel.evnt3.ne	LEL: additional event #3 was negative event		
lel.evnt3.pe	LEL: additional event #3 was positive event		

PSYCHOLOGICAL AND SOCIAL

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
lel.job.no	LEL: job change was negative "other" event	NGOTH	do if (lev.job.who = 2)
			if (lev.job.exp ge 4 and lev.job.exp le 6) lev.job.no = 1.
			if (lev.job.exp ge 1 and lev.job.exp le 3) lev.job.no = 0.
			else if (lev.job.who = 1 or lev.job.who = 3).
			lev.job.no = 0.
			end if. end if.
lel.fail.no	LEL: business/investment loss/failure was negative "other" event	NGOTH	All variables created to indicate negative events that happened to other persons were computed using the same formula as that presented for job change event (see above), save for the substitution of relevant variables.
lel.disap.no	LEL: work/education disappointment was negative "other" event		
lel.court.no	LEL: court appearance was negative "other" event		
lel.evnt1.no	LEL: additional event #1 was negative "other" event		
lel.evnt2.no	LEL: additional event #2 was negative "other" event		
lel.evnt3.no	LEL: additional event #3 was negative "other" event		
lel.job.tse	LEL: job change counts toward self-event total	SLFEV	do if lev.job = 0.
lel.job.toe	LEL: job change counts toward other-event total	OTHEV	lev.job.tse = 0.
			lev.job.toe = 0.
			else if lev.job = 1.
			do if (lev.job.who = 1 or lev.job.who = 3).
			lev.job.tse = 1.
			lev.job.toe = 0.
			else if (lev.job.who = 2).
			lev.job.tse = 0.
			lev.job.toe = 1.
			end if. end if.
lel.fail.tse	LEL: business/invest loss/failure counts toward self-event total	SLFEV	All variables created to indicate whether events should be included in counts of "self" or "other" total life events were computed using the same formula as that presented for job change event (see above), save for the substitution of relevant variables.
lel.fail.toe	LEL: business/invest loss/failure counts toward other-event total	OTHEV	
lel.disap.tse	LEL: work/educ disappointment counts toward self-event total	SLFEV	
lel.disap.toe	LEL: work/educ disappointment counts toward other-event total	OTHEV	
lel.succ.tse	LEL: work/educ success counts toward self-event total	SLFEV	
lel.succ.toe	LEL: work/educ success counts toward other-event total	OTHEV	
lel.court.tse	LEL: court appearance counts toward self-event total	SLFEV	

| INFECTION & COLDS | BIOLOGICAL PATHWAYS | DEMOGRAPHICS | HEALTH PRACTICES | PSYCHOLOGICAL & SOCIAL | SELF-REPORTED HEALTH | TRIAL |

42

PSYCHOLOGICAL AND SOCIAL

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
lel.court.toe	LEL: court appearance counts toward other-event total	OTHEV	
lel.evnt1.tse	LEL: additional event #1 counts toward self-event total	SLFEV	
lel.evnt1.toe	LEL: additional event #1 counts toward other-event total	OTHEV	
lel.evnt2.tse	LEL: additional event #2 counts toward self-event total	SLFEV	
lel.evnt2.toe	LEL: additional event #2 counts toward other-event total	OTHEV	
lel.evnt3.tse	LEL: additional event #3 counts toward self-event total	SLFEV	
lel.evnt3.toe	LEL: additional event #3 counts toward other-event total	OTHEV	
lel.negself	LEL: Life Events List - total # of negative self-events		lev.negself = sum(lev.move.ne, lev.rombrk.ne, lev.mar.ne, lev.dth.sp, lev.dth.pa, lev.dth.inlw, lev.dth.ch, lev.dth.sib, lev.dth.rel, lev.dth.fr, lev.dth.oth, lev.divrc.ne, lev.frbrk.ne, lev.rlwrs.boss, lev.rlwrs.sp, lev.rlwrs.fr,lev.rlwrs.ch,lev.rlwrs.pa,lev.rlwrs.rel, lev.child.ne, lev.acc.slf, lev.hosp.slf, lev.preg.ne, lev.abort.ne, lev.miscrg.ne, lev.job.ne, lev.fail.ne, lev.disap.ne, lev.finan.ne, lev.hsebrk.ne, lev.asslt.slf, lev.behv.sp, lev.behv.ch, lev.behv.pa, lev.behv.sib, lev.behv.oth, lev.court.ne, lev.pet.ne, lev.evnt1.ne, lev.evnt2.ne, lev.evnt3.ne).
lel.posself	LEL: Life Events List - total # of positive self-events		lev.posself = sum(lev.move.pe, lev.rombrk.pe, lev.mar.pe, lev.divrc.pe, lev.frbrk.pe, lev.child.pe, lev.preg.pe, lev.job.pe, lev.succ.pe, lev.finan.pe, lev.court.pe, lev.evnt1.pe, lev.evnt2.pe, lev.evnt3.pe).
lel.negothr	LEL: Life Events List - total # of negative other-events		lev.negothr = sum(lev.acc.sp, lev.acc.ch, lev.acc.pa, lev.acc.inlw, lev.acc.sib, lev.acc.fr, lev.acc.oth, lev.hosp.sp, lev.hosp.ch, lev.hosp.pa, lev.hosp.inlw, lev.hosp.sib, lev.hosp.fr, lev.hosp.oth, lev.job.no, lev.fail.no,lev.disap.no, lev.asslt.sp,lev.asslt.ch,lev.asslt.pa, lev.asslt.sib, lev.asslt.oth, lev.court.no, lev.evnt1.no, lev.evnt2.no, lev.evnt3.no).
lel.totself	LEL: Life Events List - total # self-events (positive & negative)		lev.totself = sum.2(lev.negself, lev.posself).
lel.totothr	LEL: total number of other-events (positive and negative)		lev.totothr=sum(lev.acc.sp,lev.acc.ch,lev.acc.pa,lev.acc.inlw,lev.acc.sib, lev.acc.fr,lev.acc.oth,lev.hosp.sp,lev.hosp.ch,lev.hosp.pa, lev.hosp.inlw, lev.hosp.sib,lev.hosp.fr,lev.hosp.oth,lev.job.toe,lev.fail.toe,lev.disap.toe, lev.succ.toe, lev.asslt.sp, lev.asslt.ch, lev.asslt.pa, lev.asslt.sib, lev.asslt.oth, lev.court.toe, lev.evnt1.toe, lev.evnt2.toe, lev.evnt3.toe).
lel.totnegev	LEL: Life Events List - total # negative events (negself + negothr)		lev.totnegev = sum.2(lev.negself, lev.negothr).
lel.totevnts	LEL: Life Events List - total # life events (totself + totothr)		lev.totevnts = sum.2(lev.totself, lev.totothr).

INFECTION & COLDS	BIOLOGICAL PATHWAYS	DEMOGRAPHICS	HEALTH PRACTICES	PSYCHOLOGICAL & SOCIAL	SELF-REPORTED HEALTH	TRIAL

43

PSYCHOLOGICAL AND SOCIAL

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
pss	*****PERCEIVED STRESS SCALE (PSS)*****		
pss.upset	PSS: upset b/c something happened unexpectedly (item 1)	FRQ04	
pss.cntrl	PSS: unable to control important things (item 2)		
pss.nervs	PSS: nervous and stressed (item 3)		
pss.probs_r	PSS: dealt successfully w/ problems & annoyances (item 4; reversed)	FRQ04R	
pss.chng_r	PSS: effectively coping w/ important changes (item 5; reversed)		
pss.pers_r	PSS: confident about ability to handle personal problems (item 6; rev)		
pss.way_r	PSS: things going your way (item 7; reversed)		
pss.cope	PSS: could not cope (item 8)	FRQ04	
pss.irrit_r	PSS: control irritations (item 9; reversed)	FRQ04R	
pss.ontop_r	PSS: on top of things (item 10; reversed)		
pss.angr	PSS: angered b/c things outside of your control (item 11)	FRQ04	
pss.think	PSS: thinking about things you have to accomplish (item 12)		
pss.time_r	PSS: control the way you spend your time (item 13; reversed)	FRQ04R	
pss.diffs	PSS: difficulties piling up (item 14)	FRQ04	
pss.pers	PSS: confident about ability to handle personal problems (item 6)		
pss.way	PSS: things going your way (item 7)		
pss.irrit	PSS: control irritations (item 9)		
pss.ontop	PSS: on top of things (item 10)		
pss.probs	PSS: dealt successfully w/ problems & annoyances (item 4)		
pss.time	PSS: control the way you spend your time (item 13)		
pss.chng	PSS: effectively coping w/ important changes (item 5)		
pss14tot	PSS: Perceived Stress Scale 14-item total score		pss14tot = mean.12(pss.upset, pss.cntrl, pss.nervs, pss.probs_r, pss.chng_r, pss.pers_r, pss.way_r, pss.cope, pss.irrit_r, pss.ontop_r, pss.angr, pss.think, pss.time_r, pss.diffs)*14.
pss10tot	PSS: Perceived Stress Scale 10-item total score		pss10tot = mean.8(pss.cntrl, pss.pers_r, pss.way_r, pss.diffs, pss.irrit_r, pss.ontop_r, pss.angr, pss.cope, pss.upset, pss.nervs)*10.
pss4tot	PSS: Perceived Stress Scale 4-item total score		pss4tot = mean.3(pss.cntrl, pss.pers_r, pss.way_r, pss.diffs)*4.

PSYCHOLOGICAL AND SOCIAL

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
sph	*****SPHERES OF CONTROL*****		
sph.wrkhrd	SPH: work hard	AGR16	
sph.socsit_r	SPH: lack ability to control social situations (reversed)	AGR16R	
sph.frnds	SPH: no trouble making/keeping friends	AGR16	
sph.plans	SPH: make plans work		
sph.convrs_r	SPH: not good at guiding conversation (reversed)	AGR16R	
sph.games_r	SPH: prefer games of luck (reversed)		
sph.learn	SPH: can learn almost anything	AGR16	
sph.relatn	SPH: can establish relationship with attractive person		
sph.accomp	SPH: accomplishments due to own work/ability		
sph.goals_r	SPH: don't set goals (reversed)	AGR16R	
sph.steer	SPH: can steer conversation toward topics		
sph.compet_r	SPH: competition discourages excellence (reversed)	AGR16R	
sph.luck_r	SPH: people get ahead by luck (reversed)		
sph.help_r	SPH: difficult to get others to help with plan (reversed)		
sph.meet	SPH: can arrange to meet someone	AGR16	
sph.point_r	SPH: hard to get point across to others (reversed)	AGR16R	
sph.reltv	SPH: like to know how well I do relative to others	AGR16	
sph.diffclt_r	SPH: pointless to keep working on something difficult (reversed)	AGR16R	
sph.disagr_r	SPH: usually make disagreements worse (reversed)		
sph.group	SPH: easy to play important part in group situations	AGR16	
sph.perseff	SPH: Spheres of Control - Personal Efficacy		sph.perseff = mean.8(sph.wrkhrd, sph.plans, sph.games_r, sph.learn, sph.accomp, sph.goals_r, sph.compet, sph.luck_r, sph.reltv, sph.diffclt_r)*10.
sph.intrpcntl	SPH: Spheres of Control - Interpersonal Control		sph.intrpcntl = mean.8(sph.socsit_r, sph.frnds, sph.convrs_r, sph.relatn, sph.steer, sph.help_r, sph.meet, sph.point_r, sph.disagr_r, sph.group)*10.
sph.control	SPH: Spheres of Control - Total Personal Control		sph.control = sum.2(sph.perseff, sph.intrpcntl).

| INFECTION & COLDS | BIOLOGICAL PATHWAYS | DEMOGRAPHICS | HEALTH PRACTICES | PSYCHOLOGICAL & SOCIAL | SELF-REPORTED HEALTH | TRIAL |

45

PSYCHOLOGICAL AND SOCIAL

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
estm	*****SELF ESTEEM*****		
fw.gtalng_r	FW: worry about getting along with people (reversed)	AGR16R	
fw.dslkslf_r	FW: dislike self (reversed)		
fw.slfcns_r	FW: self-conscious (reversed)		
fw.inferior_r	FW: feel inferior (reversed)		
fw.rspctd	FW: some day respected	AGR16	
fw.anx_r	FW: afraid/anxious going into room with people (reversed)	AGR16R	
fw.donthng_r	FW: do nothing well (reversed)		
fw.worry_r	FW: worry whether people like to be with me (reversed)		
fw.shy_r	FW: troubled with shyness (reversed)		
fw.wrthlss_r	FW: think self worthless (reversed)		
fw.opinion_r	FW: worried friends might not have good opinion (reversed)		
fw.confdnt	FW: confident about abilities	AGR16	
fw.discrgd_r	FW: discouraged with self (reversed)	AGR16R	
fw.othnk_r	FW: worried about what others think (reversed)		
fw.slfesteem	FW: Fleming & Watts Self Esteem Scale Total Score		fw.slfesteem = mean.12(fw.gtalng_r, fw.dslkslf_r, fw.slfcns_r, fw.inferior_r, fw.rspctd, fw.anx_r, fw.donthng_r, fw.worry_r, fw.shy_r, fw.wrthlss_r, fw.opinion_r, fw.confdnt, fw.discrgd_r, fw.othnk_r)*14.
fw.socconf	FW: Fleming & Watts Self Esteem Scale - Social Confidence (from factor analysis)		fw.socconf = mean.6(fw.gtalng_r, fw.slfcns_r, fw.anx_r, fw.worry_r, fw.shy_r, fw.opinion_r, fw.othnk_r)*7.
fw.slfreg	FW: Fleming & Watts Self Esteem Scale - Self Regard (from factor analysis)		fw.slfreg = mean.6(fw.dslkslf_r, fw.inferior_r, fw.rspctd, fw.donthng_r, fw.wrthlss_r, fw.confdnt, fw.discrgd_r)*7.

| INFECTION & COLDS | BIOLOGICAL PATHWAYS | DEMOGRAPHICS | HEALTH PRACTICES | PSYCHOLOGICAL & SOCIAL | SELF-REPORTED HEALTH | TRIAL |

46

PSYCHOLOGICAL AND SOCIAL **Value Labels for Categorical and Dichotomous Variables (1/2)**

CODE	VALUE LABELS	CODE	VALUE LABELS	CODE	VALUE LABELS
RATE04	0=not at all	SNIPAR	0=neither	SNIROLE	0=does not hold this role
	1=a little		1=mother only		1=holds this role
	2=moderately		2=father only		
	3=quite a bit		3=both mother and father	LELSAME	0=same
	4=extremely				1=better
		SNIINL	0=neither		2=worse
RATE04R	0=extremely		1=mother-in-law only		
	1=quite a bit		2=father-in-law only	LELEXP	1=very good
	2=moderately		3=both mother-in-law and father-in-law		2=moderately good
	3=a little		4=not applicable (not married)		3=slightly good
	4=not at all				4=slightly bad
		SNINUM1	0		5=moderately bad
YES/NO	0=no		1		6=very bad
	1=yes		2		
			3	LELPLAN	0=planned
YES/NOR	0=yes		4		1=unplanned
	1=no		5		
			6	LEWHO1	1=self
TF03	0=definitely false		7 or more		2=spouse/partner
	1=probably false				3=both
	2=probably true	SNINUM2	0 (or have no neighbors)		
	3=definitely true		1	LELJOB	1=on strike
			2		2=temporarily laid off
TF03R	0=definitely true		3		3=fired
	1=probably true		4		4=found better job
	2=probably false		5		5=plant or business closing or reorganizing
	3=definitely false		6		6=retired
			7 or more		7=other
SNIMAR	1=married/marital-like relationship				
	2=never married/marital-like relationship	SNIEMP1	0=no	LELFIN	0=better
	3=separated		1=yes, self-employed		1=worse
	4=divorced/formally in marital-like relat.		2=yes, employed by others		
	5=widowed				

INFECTION & COLDS	BIOLOGICAL PATHWAYS	DEMOGRAPHICS	HEALTH PRACTICES	PSYCHOLOGICAL & SOCIAL	SELF-REPORTED HEALTH	TRIAL

47

PSYCHOLOGICAL AND SOCIAL **Value Labels for Categorical and Dichotomous Variables (2/2)**

CODE	VALUE LABELS	CODE	VALUE LABELS	CODE	VALUE LABELS
LELDIS	1=demoted	SLFEV	0=not a self-event	AGR16	1=disagree very much
	2=failed to get raise or promotion		1=self-event		2=mainly disagree
	3=failed a course				3=slightly disagree
	4=trouble with boss or coworkers	OTHEV	0=not an other-event		4=slightly agree
	5=put on academic probation		1=other-event		5=mainly agree
	6=failed to get into an educational course				6=agree very much
	7=other	FRQ04	0=never		
			1=almost never	AGR16R	1=agree very much
LEWHO2	1=self		2=sometimes		2=mainly agree
	2=spouse/partner		3=fairly often		3=slightly agree
	3=child		4=very often		4=slightly disagree
	4=parent				5=mainly disagree
	5=brother or sister	FRQ04R	0=very often		6=disagree very much
	6=other		1=fairly often		
			2=sometimes		
NGOTH	0=not a negative other-event		3=almost never		
	1=negative other-event		4=never		

SELF-REPORTED HEALTH

VAR NAME	VARIABLE LABEL	VALUES	FORMULA
SLFHLTH	*****BEGIN SELF-REPORTED HEALTH DATA*****		
mhq.breath	MHQ: shortness of breath	MHQ	
mhq.indigst	MHQ: indigestion		
mhq.thghts	MHQ: unreasonable thoughts		
mhq.check	MHQ: had to check		
mhq.sleep	MHQ: able to sleep		
mhq.irritat	MHQ: irritated by disturbance		
mhq.worry	MHQ: worrying		
mhq.tired	MHQ: tired and exhausted		
mhq.total	MHQ: total score (all 8 items)		mhq.total = mean.6(mhq.breath, mhq.indigst, mhq.thghts, mhq.check, mhq.sleep, mhq.irritat, mhq.worry, mhq.tired)*8.
srh.coldavgyr	Self-reported Health: average number of colds per year		
srh.coldpstyr	Self-reported Health: number of colds in past year		
srh.mthscold	Self-reported Health: number of months since last cold		
srh.colddur	Self-reported Health: duration of last cold (days)		
srh.asthma	Self-reported Health: have you ever had asthma	YES/NO	
srh.sinusitis	Self-reported Health: have you ever had sinusitis		
srh.tonsillitis	Self-reported Health: have you ever had tonsillitis		
srh.hayfever	Self-reported Health: have you ever had hay fever		
srh.influenza	Self-reported Health: have you ever had influenza		
srh.otitismed	Self-reported Health: have you ever had otitis media		
srh.allrfood	Self-reported Health: allergies to food	YES/NO	
srh.allrdrug	Self-reported Health: allergies to drugs		
srh.allrother	Self-reported Health: other allergies		
srh.allergy	Self-reported Health: allergic status	ALLRG	
srh.hosptlzd	Self-reported Health: have you ever been hospitalized	YES/NO	
srh.medicat	Self-reported Health: are you taking any prescription medication	YES/NO	
srh.daysmens	Self-reported Health: number of days since last menstrual period		
srh.sickstrs	Self-reported Health: more likely to get sick when stressed (2 wks pre-q'rntine)	AGR16	

SELF-REPORTED HEALTH **Value Labels for Categorical and Dichotomous Variables**

Code	Value Labels	Code	Value Labels
MHQ	0=never	AGR16	1=disagree very much
	1=sometimes		2=mainly disagree
	2=often		3=slightly disagree
			4=slightly agree
YES/NO	0=no		5=mainly agree
	1=yes		6=agree very much
ALLRG	0=non-allergic		
	1=allergic		

| INFECTION & COLDS | BIOLOGICAL PATHWAYS | DEMOGRAPHICS | HEALTH PRACTICES | PSYCHOLOGICAL & SOCIAL | SELF-REPORTED HEALTH | TRIAL |

50

TRIAL DATA

VARIABLE NAME	VARIABLE LABEL	VALUE LABELS	FORMULA
TRIAL	*****BEGIN TRIAL DATA*****		
trialnum	Trial number		
trialdate	Quarantine Day 0		
month	Month of trial	MONTH	
month_str	Month of trial		
year	Year of trial		
cohort	Number of participants in trial		
season	Season of trial	SEASON	
winter	Season of trial: winter (Dec-Jan-Feb)		if (season = 1) winter = 1; if (season ne 1) winter = 0.
spring	Season of trial: spring (Mar-Apr-May)		if (season = 2) spring = 1; if (season ne 2) spring = 0.
summer	Season of trial: summer (Jun-Jul-Aug)		if (season = 3) summer = 1; if (season ne 3) summer = 0.
fall	Season of trial: fall (Sep-Oct-Nov)		if (season = 4) fall = 1; if (season ne 4) fall = 0.
drugtrial	Was participant taking trial drug?	DRUG	
medgrp	Was participant taking trial medication?	MED	
medname_str	name of medication		
rise_time	Time of sunrise on first day of trial (numeric)		
set_time	Time of sunset on first day of trial (numeric; 24-hr time)		
rise_hr	Hour of sunrise on first day of trial		
set_hr	Hour of sunset on first day of trial (24-hr time)		
rise_min	Minutes past hour of sunrise on trial day 1		
set_min	Minutes past hour of sunset on trial day 1 (24-hr time)		
midniterise	Time of sunrise expressed as minutes past midnight		midniterise = (rise_hr*60) + rise_min.
midniteset	Time of sunset expressed as minutes past midnight		midniteset = (set_hr*60) + set_min.
daylite_min	Total minutes of daylight on trial day 1 (midniteset - midniterise)		daylite_min = midniteset - midniterise.
daylite_hr	Total hours of daylight on trial day 1		daylite_hr = daylite_min/60.
matenum	Number of flatmates (range, 0 to 2)		

| mateinfct | At least 1 flatmate infected with same virus | YES/NO | |

| INFECTION & COLDS | BIOLOGICAL PATHWAYS | DEMOGRAPHICS | HEALTH PRACTICES | PSYCHOLOGICAL & SOCIAL | SELF-REPORTED HEALTH | TRIAL |

52

TRIAL DATA **Value Labels for Categorical and Dichotomous Variables**

Code	Value Labels	Code	Value Labels
MONTH	1=January	SEASON	1=winter (Dec-Jan-Feb)
	2=February		2=spring (Mar-Apr-May)
	3=March		3=summer (Jun-Jul-Aug)
	4=April		4=fall (Sep-Oct-Nov)
	5=May		
	6=June	DRUG	0=no drug (RV2 specific)
	7=July		1=therapeutic drug
	8=August		2=prophylactic drug
	9=September		
	10=October	MED	0=nothing
	11=November		1=placebo
	12=December		2=one or two drugs
			3=drug & placebo (trials 942-946)
YES/NO	0=no		
	1=yes		