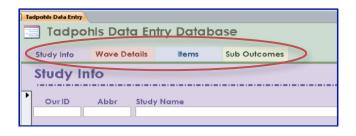
Supplement 1 – TADPOHLS Codebook

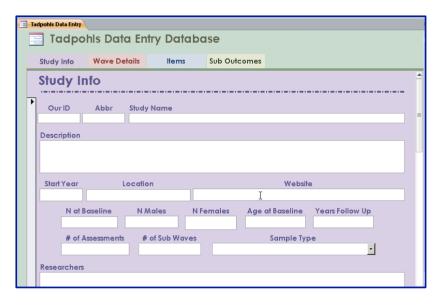
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PART 1: BACKGROUND ON DATABASE STRUCTURE

Information was coded into an Access database, which was broken into four main types of information: **Study Info**, **Wave Details**, **Items**, and **Sub Outcomes**. Each of these tabs serves a specific function, as described on the pages below.





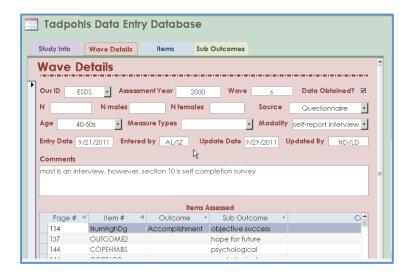
On this tab, basic information was coded on the study, as noted below:

Field	Definition	Instructions
Our ID	4 letter identifier	Enter the 4 letter id. These have already been assigned, and are noted in the spreadsheet.
Abbr	Study abbreviation	If applicable, enter the abbreviation used by the study
Study Name	Full name of study	Enter the full name of the study
Description	Brief description of the	Copy and paste the full description
	study (aims, etc.)	This usually comes from the website or other source. Most of these are in our spreadsheet, but you may have to search.
Start Year	Year that study began	Enter the year the study began – i.e., when data collection began
Location	Location of study	Enter country of study. If in specific state, province, or city, include info
Website	Website for information on	Enter the best place – either project website, or archived address to obtain information on the study.
	the study	If 2 or more sites, separate by a semi-colon
N at baseline	Number at start of study	Enter the number at baseline (number field, no text)
		This should equal N males + N females. If not (i.e., gender unknown for some), note in comment section.
N males	Number of males at start of	Enter the number at baseline (number field, no text)
	study	
N females	Number of females at start	Enter the number at baseline (number field, no text)
	of study	
Age at baseline	Average age of sample at	Enter the average age at baseline (in years – if in months, note mos)
	start of study	

Field	Definition	Instructions
Years follow up	Year of follow-up	If indicated, note how long participants were followed in years (number field, no text).
		If ongoing study (data collection still in progress), calculate as [2011 minus year study began]. Note that the study should
		say explicitly that data collection continues. Otherwise, calculate as [year of last wave minus year study began]
# of assessments	Number of measurement	Enter total number of waves or assessments
	occasions/ waves	Only include main waves (when they tried to locate the full sample. If they did a study with a smaller sample chosen
		from the main set, note this in subwaves)
# of sub-waves	Number of sub-	For smaller assessments with a chosen sub group of the full sample, indicate total number
	assessments	
Sample Type	Description of sample	Select one or more from the list.
	Nationally	Random sample of nation. Study should note this explicitly
	representative	Random sample of city, region, state, etc.
	Community	Local community, non-representative
	representative	Willing people (e.g., undergrads, snowball technique)
	Community non-	Chosen for a characteristic (e.g., autistic children)
	representative	Specific subset of people (e.g., gifted children in California)
	Convenience sample	Any other. Note in comment section
	Specific characteristic	
	Specific population	
	Other	
Researchers	Key people associated with	Note the primary investigator (PI) of the study. This will be in the original documentation. If there are several important
	study	people, note those as well, although if there is a very long list, only include the most important. If it is a long-term study
		and people have changed, include both the investigator(s) who began the study, and the current PI(s).
Database citation	How to cite the database	Give exact citation information, as noted on website or data source
References	References associated with	If there are a few key articles or books, include reference in APA format
	the database	
Comments		Give any comments or notes we should be aware of.
		Please make use of this box. If you are unsure of anything, note it here. If information is missing, note it here.
		Include the date and your initials
		Format should be [date initials: comment]:
		09/17/11 pk: also included 3 subwaves (1986, 1994, and 1998)
Contact info	How to contact study	Include a contact person or email, usually found on the website (or in a journal article, there is usually contact info for
	investigators	the first author).
Contacted	Date of contact	Indicate date attempted to contact study investigators (sent email or called).
		When you click here, a calendar will appear – click this to select date.
Username	User name for obtaining	If you need to create a username for the study, indicate it here.
	questionnaires and/or data	
Password	Password for obtaining	If you need to create a password to obtain study information, indicate it here.
	questionnaires and/or data	
Questionnaire		Check box if we have obtained (and saved) the questionnaires/ codebooks
obtained		

Field	Definition	Instructions
Data obtained		Check box if we have obtained the actual data
Access notes/ email		Note here any communication, problems, etc. that occur in trying to track down information and/or data
communication		Include the date and your initials
		Format should be [date initials: comment]:
		09/17/11 pk: sent email to investigator
Date of entry	Date of initial information	Note the date information is first entered.
	entry	A calendar will appear – click on this and select the date.
Entered by	Initials of person entering	Enter your initials
	initial information	
Date updated	Date of most recent	For any changes made to the record, select the new date. If it has been completed in the past, replace with the new
	changes	date.
Updated by	Initials of person entering	Enter initials if make changes. Note changes in the comments sections
	updated information	
Need to follow up		Check if more needs to be done with this study. This will usually be checked, until we have obtained the information,
		including questionnaires, coding information, and data, or have decided no to pursue the study.
Follow comments	What needs to be done	Indicate what needs to be done to follow up with the study.
		If there is information here and you make changes, Add your new comments (e.g., indicating that you completed a task)
		Include the date and your initials
		Format should be [date initials: comment]:
		09/17/11 pk: missing data for waves 3 and 4
Coding comments	Notes and comments on	Make note of progress for coding the waves and items. Include the date and your initials.
	coding questionnaires	
Coding complete	Coding of questionnaires	Check when all waves and questionnaires have been coded.
	complete	
Date complete	Date coding completed	Select the data coding is complete
Initials complete	Initials of person	Enter initials when all questionnaires & waves have been coded.
	completing coding	

Wave Details



The second tab included information on each measurement occasion, with one record completed for each questionnaire within a given wave.

Field	Definition	Instructions
Our ID	4 letter identifier	Once you have added a study on the study tab, the abbreviation will appear in the drop down list. Select the
		correct abbreviation.
		This is vital, as this is the information that links the record to the study.
Assessment	Year of assessment	Enter the year the assessment was done
year		

Field	Definition	Instructions
Wave	Which wave or assessment this occurred	Enter the number. If the questionnaire comes from a subwave, number with the prior wave and add an a, b, etc. (e.g., if there was a sub assessment between assessment 7 and 8, then label this 7a). For questionnaires that are directed toward an individual other than the main subject, use the following labels: wave number + m mother (or mother figure) wave number + f father (or father figure) wave number + u unspecified parent (or guardian) wave number + t teacher wave number + i interviewer wave number + d doctor/physician/medical personnel wave number + p partner/spouse wave number + s sibling wave number + x family If the questionnaire specifies that the questionnaire may have been filled out by the mother or the father use: wave number + m mother (mother figure) or father (father figure)
N	Number of participants assessed in this wave	Enter the number assessed at this assessment (number field, no text)
N males	Number of males assessed in this wave	Enter the number assessed in this wave (number field, no text)
N females	Number of females assessed in this wave	Enter the number assessed in this wave (number field, no text)
Source	Questionnaire or codebook	From dropdown menu, select whether you are coding the questionnaire or codebook. Use the codebook if available, otherwise code items from the questionnaire.
Age group	General age of assessment	Select from drop down list the average age of the participants for this assessment Note: the range may span more than one category, but base your classification on the average age.
Measure Types	Types of measures included at this assessment	Check the types of measures included. Each of these should then be included in the table below.
Modality	Assessment modality	Select the best modality for the assessment. See definitions below. Note: A single assessment will fit into a single modality. If more than one modality is included in a single wave, code these as two separate records, always linking back to the study.
Data obtained		Check this box if we have received data for this particular assessment
Entry Date	Date of entering information	Enter the date this information was added by clicking the calendar and selecting the date.
Entered by	Initials of person entering the information	Enter your initials
Date updated	Date of most recent changes	For any changes made to the record, select the date by clicking on the calendar. If it has been completed in the past, replace with the new date.
Updated by	Initials of person entering updated information	Enter initials if make changes. Note changes in the comment section
Comments	Any notes or comments	Enter any comments or notes that we should be aware of. Include the date and your initials Format should be [date initials: comment]: 09/17/11 pk: unsure on item #B74 and B76

Field	Definition	Instructions
Items	Table that indicates what items and/ or	Complete this table after adding items and measures to the blue items/measures tab.
assessed	measures were included in this wave	Note: It is very important that this table is completed correctly, as this is how we will select items in the future.
		If there are multiple items that all access the same sub-outcome, select the best item, and make a note that
		others are available (indicate how many and type)
Page #	Page number from questionnaire or	If using the questionnaire, indicate the page where the item is located. If using the codebook, indicate the page
	codebook	where the item is located.
Item #	Item number from questionnaire or	If using the questionnaire, indicate the numbered item. If using the codebook, indicate the item (e.g., b36101).
	codebook	
Outcome	Outcomes within the broader types (main	Select the outcome.
	outcome)	Note that if is debatable which category to code, put into the psychological (well-being and ill-being) categories
		first, then extend to the individual difference or environmental categories.
Sub	Variable assessed, at the sub-category level	Select the sub outcome.
Outcome	(e.g., behavioral engagement, heart-rate	Stick with the sub-outcomes listed, unless there is something that really needs to be included, in which case
	variability)	you should use the other category and make a note in the comment section. If you are stretching to make it fit
		somewhere, then exclude the item.
Comments	Comments on item	Any comments on the item. If you selected the best item for this suboutcome and there are others available,
		note it here.
		Note that this is limited to 255 characters. If there are additional comments, enter in the full comment box
		above the table.

Sub Outcomes and Items



The third tab included the item information, with one record completed for each sub outcome included in the study.

Field	Definition	Instructions
		Top Section
Item ID	Auto number	This is an auto number of the measures. This will appear when you start filling in information – do not change
Entry Date	Date of entering information	Enter the date this information was added by clicking the calendar and selecting the date.
Entered by	Initials of person entering the	Enter your initials
	information	
Date updated	Date of most recent changes	For any changes made to the record, select the date by clicking on the calendar. If it has been completed in the past,
		replace with the new date.
Updated by	Initials of person entering updated	Enter initials if make changes. Note changes in the comment section
	information	
Comments/	Any notes or comments	Enter any comments or notes that we should be aware of.
notes		Include the date and your initials
		Format should be [date initials: comment]:
		09/17/11 pk: unsure on item #B74 and B76
Туре	Type of item (main category)	Indicate the type of measure (physical health, well-being, ill-being, health behavior, individual difference, environment,
		or other).
Outcome	Outcomes within the broader	Use the definitions below (which are under development) to classify the item.
	types (main outcome)	Pick the best possible option. If you are unsure, check with Libby or Peggy.
Sub-Outcome	Specific outcomes or measures for	This part is under development (especially for physical health). Select the sub-outcome (specific within the broader
	each outcome	outcome; e.g., engagement includes behavior, interest/passion, learning, etc.)
		Item Table (main part to focus on)
Item Variants	Specific items	Complete the table as follows:
Item	Specific question associated with	Check the existing list. If a similar item is in the table, then nothing more needs to be done. However, if the wording is
_	sub outcome	significantly different, the format is different, or the direction differs, then add a new line.
Format	Format of item	Select from list. For example:
	Continuous	Numeric values (e.g., \$, IQ, percentage)
	Dichotomous	Yes/no, male/female
	Likert scale	Ordinal options (e.g., 5 point scale)
	Free response	Written words
	Multi-response	Symptom checklist
	Quantity	Time variable (e.g., daily, weekly, monthly)
	Point in time Other	When something occurred (e.g., two weeks ago)
Direction		Any other type – indicate in comment section
Direction	Direction of scale/ measure Positive	Select what the measure is getting at (based on wording, not answer choice direction) Positive outcomes (e.g., in general how is your health, How satisfied are you with your life)
	Negative	Negative outcomes (e.g., disease checklist, how often do you feel depressed?)
	Bimodal	Bimodal: low to high, no valence (e.g., IQ, test score)
Study	Studied where item are used	Note the studies using this item, using our ID numbers coded in the study tab (e.g., ESDS). Separate multiple studies by a
Study	Studied where item are used	semi-colon.
Wave	Waves where item is used	Indicated waves of use. Separate multiple waves by a semi-colon.
vvave	Waves where item is used	If multiple waves across multiple studies used this, indicate in some way (e.g., E2, E5)
		in marapie waves across marapie studies used this, maleute in some way (c.g., £2, £3)

Field	Definition	Instructions
Comment	Comments on item variant	Enter any comments, including anything you are unsure of, of something we should be aware of, including comments on
		where the item came from.
		If you selected the best item and there are others falling within the sub-outcome, make sure and note it here.
Entry Date	Date of entering information	Enter the date this information was added by clicking the calendar and selecting the date.
Entered by	Initials of person entering the	Enter your initials
	information	

PART 2: CATEGORY DEFINITION

Category:

Physical functioning: physiological systems within the body

Positive psychological functioning: positive psychosocial variables, grounded on Seligman's PERMA theory and adjusted to adolescents

Negative psychological functioning: Negative psychological variables, including psychopathology and less severe forms

Health Behaviors: behaviors that either promote or increase risk for health outcomes

Individual Differences: personality and other variables that make us unique as individuals

Socio-environmental factors: social and environmental variables that create the context for development

Other: doesn't fit in any of the categories. Usually exclude, unless there is a really good reason to include, in which case you should note it in the comment section.

MODALITY:

Clinical Interview: Based on perception of a trained observer.

Observation: noted by an objective, third party

Other-Report Interview: Outcomes reported by proxy or close other during an interview (e.g., parent's or other's impressions of what the child experiences;

spouse report. – in notes section indicate which "other" reported on the question)

Other-Report Survey: Outcomes reported by proxy or close other on a survey (e.g., parent's or other's impressions of what the child experiences; spouse

report. – in notes section indicate which "other" reported on the question)

Public Record: birth records, death certificates, marriage license, and other documents publicly available

Self-Completed Test: Test completed by the participant (different from a survey)

Self-Report Interview: Outcomes reported by child or adult participant during an interview

Self-Report Survey: Outcomes reported by child or adult participant on a survey

Specimen: (biological) Requires acquisition of a tissue or body fluid specimen.

Technology enabled measurement: Assessed using a device yielding a value that does not require interpretation by a trained observer (e.g., accelerometer data)

PART 3: DETAILED OUTCOME DEFINITIONS

Categories are broken down into specific outcomes (e.g., body systems, constructs, etc.).

Outcome	Definition ¹
	Physical Functioning Outcomes
Cardiovascular	Consists of the heart and blood vessels. It includes a pulmonary circulation loop that carries blood to the lungs for oxygen, and a circulatory loop that
	carries oxygenated blood cells throughout the body.
Developmental	Markers of normal human development.
Milestones	
Endocrine	System of glands that secretes hormones into the bloodstream to regulate the body. Effects are slow to initiate and prolonged in their response, lasting
	from hours to weeks. Includes the hypothalamus, thyroid, pineal gland, pituitary gland, adrenal gland, and hormones secreted by the liver, stomach,
	duodenum, pancreas, kidneys, reproductive organs, adipose tissue, bone marrow, and heart.
Functional	Actions that a person does to take care of his or her own health and to function in daily life (mostly applicable to older samples)
autonomy	
Gastrointestinal	Stomach and intestines. Includes the upper GI tract (oesaphagus, stomach, duodenum) and the lower GI tract (small intestines, large intestines, anus)
General functioning	Questions or measures related to overall function. Includes some measures (such as DNA or other blood tests) that don't directly fit into a single
	category.
Genitourinary	Reproductive and urinary systems. These are grouped together, due to their proximity and following similar structures and pathways.
Immune	A system that protects against disease by identifying and killing pathogens and tumor cells.
Musculoskeletal	Also known as the locomotor system, this system provides form, support, stability, and movement to the body. It includes bones, muscles, ligaments,
	cartilage, tendons, joints, and connective tissue that support and bind the organs together.
Nervous	A network of specialized cells (neurons) that transmit signals throughout the body and coordinate movement. Includes the central nervous system (CNS;
	brain, spinal cord, retina) and the peripheral nervous system (PNS; sensory neurons, ganglia, nerves). The CNS system includes problems with cognitive
	function, such as dementia and Alzheimer's disease.
Pain/ fatigue	Usually self-reported experiences of pain or fatigue
Respiratory	System that introduces respiratory gases to the body and exchanges oxygen & carbon dioxide
Sensory	Measures and conditions related to the five senses
Skin	Conditions and measures related to the skin
Weight-related	BMI, obesity, eating disorders, and other conditions related to normal versus abnormal weight
	Positive Psychological Functioning
Accomplishment	Defined in terms of achievement, success, or mastery at the highest level possible within a particular domain. Note that this is refers more to subjective
	or objective outcomes.
Engagement	A psychological state in which individuals report being absorbed by and focused on what they are doing, as well as involvement and interest in life
	activities or tasks
Happiness/ positive	Happiness, positive emotion, positive mood, positive affect.
affect	
Life satisfaction	Cognitive based assessment of how much like or dislike life.

¹ Most definitions come from Wikepedia.com

Outcome	Definition ¹
Meaning/ purpose	Feeling of belonging to something greater than yourself; significance of life from point of view of the individual
Optimism	Characterized by a hopefulness and confidence about the future; a tendency to take a favorable view of things; or an explanatory style marked by seeing
	negative events as temporary , external, and specific to situation.
Perseverance	The ability to pursue one's goals to completion, even in the face of obstacles, sometimes referred to as "grit". Note that this refers more to the process
	of and capability to stick with things than the accomplishment of the task or challenge.
Relationship/	The sense that one has satisfying relationships with others; the belief that one is cared for, loved, esteemed and valued.
connectedness	
	Negative Psychological Functioning
Anxiety	All forms of anxiety
Depression	All forms of depression
Externalizing	Violent or aggressive actions and behaviors directed toward others, including aggressive behaviors, bullying others, fighting, acting out, juvenile
behaviors	delinquency, incarceration
Negative affect	Indicators of negative emotion, affect, or mood
Other III-being	Other ill-being measures not included in other categories (typically exclude, unless seemingly very important to include)
Psychopathology	Other psychopathology, not included above, including visits to mental health professionals, medication for mental problems, & psychiatric
	hospitalization
Stress reactions	The physical sensations, thoughts, and feelings that people experience in response to internal or external challenges
	Health Behaviors
Alcohol	
Diet/ nutrition	The ingestion of food and the way that food nourishes the body.
Drug use	Any type of illegal drug/substance
Other behavior	Other health protective or risky behaviors a person does to protect health or place it at risk
Physical activity	Participation in activities that promote physical fitness.
Sexual behavior	Engagement in behavior that protect a person or places a person at risk for a sexually transmitted disease (STD), HIV/AIDS or unintended pregnancy.
Sleep	
Tobacco/ smoking	Anything with nicotine
	Individual differences
Coping Style	An individual's efforts to master demands that are appraised (or perceived) as exceeding or taxing his or her resources; efforts to prevent or diminish
	threat, harm, and loss, or to reduce associated distress (Carver & Connor-Smith, 2010)
Intelligence	A very general mental capability that, among other things, involves the ability to reason, plan, solve problems, think abstractly, comprehend complex
	ideas, learn quickly and learn from experience; ability as measured by a standardized test
Personality	The particular combination of emotional, attitudinal, and behavioral response patterns of an individual
Self-esteem	A person's overall evaluation or appraisal of his or her own worth
Temperament	Aspects of an individual that are often regarded as innate rather than learned. Usually used with children, whereas personality is often used with adults
	Socio-Environmental Factors
Caregiving	Experiences giving care to others
Environment	Work, home, and school psychological and physical environment
Life events	Life events that often can cause stress.

Outcome	Definition ¹
Neighborhood	Neighborhood environment
Parenting	Parenting styles and practices (usually parent reports of their behavior)
Socio-economic	Indicators of status, income, education, home environment
status	
Victimization/ abuse	Being victimized or abused by others

PART 4: DETAILED SUB OUTCOME DEFINITIONS

Each outcome is then broken down into a series of sub outcomes.

Outcome	Sub Outcomes	Definitions/ Examples/ Variants included in sub-outcome
		Physical Functioning
Respiratory		STRUCTURE
	Structure, Respiratory System	Trachea, Lungs, Thoracic Cage, Muscles of respiration
		Measure: Chest x-ray, computed tomography (CT) scan; bronchoscopy, Lung ventilation/ perfusion scan (VQ
		scan)
		FUNCTION
	Function, Respiration	Respiratory rate, Respiratory Rhythm, Depth of respiration, Hypoxia, academia (respiratory acidosis), alkalemia
		(respiratory alkalosis), pulmonary hypertension
		Measure: Pulmonary function test (PFT), spirometry, Arterial Blood gas (ABG), Swan-Ganz Catheter
		DISORDERS
	Respiratory Disorder, Acute	Acute respiratory distress syndrome (ARDS), acute respiratory failure, collapse lung (atelectasis), lung abscess
		pulmonary edema, pleural effusion, pneumothorax, pulmonary embolism, pulmonary edema, stridor, dyspnea
	Respiratory Disorder, Chronic	Chronic obstructive pulmonary disease (COPD), Asthma, Chronic bronchitis, Emphysema, Cystic Fibrosis,
		sarcoidosis, Allergic rhinitis (allergies-seasonal or environmental)
	Respiratory, Infectious Disease	Pneumonia, tuberculosis (TB), Upper/Lower respiratory infection, Acute nasopharyngitis (common colds),
		sinusitis, tonsillitis, pharyngitis, laryngitsis/tracheitis, acute bronchitis/ bronchiolitis, influenza (flu), pneumonia,
		pulmonary mycobacterial infections
	Respiratory Disorder, Cancer	Nasal cavity, thymus, glottis/ supraglottis (larynx) neoplasm, trachea, nasal cavity, Adenocarcinoma
		Self-Reported Experiences
	Respiratory experiences	Self-reported trouble/ problems breathing, shortness of breath, croup, coughing, sneezing, yawning, wheezing,
		snoring, hiccough (hiccup)
	Biochemical Indices	
	Respiratory, biochemical	Blood Gas levels, Carbon Dioxide (PaCO2), pH, Oxygen content (O2CT), Oxygen Saturation (SaO2), Bicarbonate
		(HCO3-), Alfa 1 Anti Trypsin,
Cardiovascular		STRUCTURE
	Structure, Cardiovascular System	Heart, Arteries, Veins, Capillaries
		Measures: ECHO

Outcome	Sub Outcomes	Definitions/ Examples/ Variants included in sub-outcome	
	FUNCTION		
	Function, Heart	Heart rate, heart rhythm, contraction force of ventricular muscles, blood supply to the heart	
		Measures: EKG/ ECG, pulse meter, heart rate	
	Function, Blood Vessels	arteries, capillaries, veins	
		Measures: Doppler	
	Function, Blood Pressure	Increased BP, Decreased BP, Maintenance BP	
		Measure: blood pressure measurements	
		DISORDERS	
	CVS Disorders, Heart	Congenital: Congenital Heart Disease	
		Ischemic: Myocardial Infarction (MI)/ heart attack; Cardiac Arrest, Acute Coronary Syndrome (ACS);	
		Atherosclerosis; Coronary heart disease/ Coronary artery disease; Angina; Aortic aneurysm, Arterial embolism/	
		thrombosis	
		Structural: mitral valve, aortic valve, tricuspid valve stenosis/ insufficiency/failure,	
		Other: Congestive Heart Failure (CHF); cardiomegaly; ventricular hypertrophy; myocardial rupture; pericardial	
		effusion, pericardial tamponade, Atrioventricular block (AV block), cardiomyopathy, tachycardia, arrhythmias	
	CVS Disorder, Circulation/blood	Hypertension, Hypotension, Thrombosis, phlebitis, aneurysm, varicose veins, varices, vasculitis; blood clot;	
	Vessels	Peripheral vascular disease (PVD), hemorrhoids	
	CVS Disorders, Infectious Diseases	Rheumatic fever, pericarditis, myocarditis; endocarditis, carditis,	
	CVS Disorders, Cancers	primary tumors or cancers affecting the heart	
		Self-Reported Experiences	
	CVS Experiences	Self-reports of chest pain, irregular heartbeats, chest tightness	
	Biochemical Indicies		
	CVS, Biochemical Indices	Cholesterol level – HDL, LDL, total, lipids (Apolipoproteins, ApoAl, ApoB), CPK,	
Gastrointestinal	STRUCTURE		
	Structure, GI	Oral Cavity: Salivary glands, teeth, tongue, jaw, lips	
		Esophagus/ Stomach/ Intestines: , obstruction, ileus, fistula, Intussusception, Volvulus	
		Liver, pancreas, biliary tract/ bile duct, gallbladder	
		Measures: Colonoscopy, Endoscopy, Esophagogastroduodenoscopy (EGD), Barium enema, Barium swallow	
		test, HIDA scan, abdominal X-ray, Ultrasound, CT abdomen, MRCP, ERCP	
	FUNCTION		
	Function, GI	Ingestion: Chewing, biting, swallowing, salivation	
		<u>Digestion</u> : Peristalsis/ transport food through GI tract	
		<u>Defecation:</u> fecal consistency, frequency	
		Measures: Ingestion: Modified Barium Swallow test (MBS); Digestion: Fecal fat test, Lactose or hydrogen breath	
		test; <u>Defecation:</u> Stool samples (abnormal color stools, bulky stools, mucus stools	
	DISORDERS		
	GI Disorders, GI tract	Oral Cavity, salivary glands, jaw: Dental caries, tooth erosion, gingivitis, periodontitis, gingival recession,	
		stomatitis, atrophy/ hypertrophy of salivary gland, Sialolithiasis, Xerostomia, abscess of mouth, Cheilitis,	
		Cheilosis, Leukoplakia, Glossitis, atrophy/ hypertrophy of tongue papillae	
		Esophagus/ Stomach: Esophagitis, Gastro-esophageal reflux (GERD), Ulcer (oral, gastric, duodenal, peptic,	

Outcome	Sub Outcomes	Definitions/ Examples/ Variants included in sub-outcome
		gastrojejunal), Gastritis/duodenitis, dyspepsia, gastroenteritis (stomach flu) gastroparesis, upper GI bleed,
		pyloric stenosis, dysphagia
		<u>Intestines:</u> Ulcerative colitis, Crohn's disease, irritable bowel syndrome (IBD),Celiac disease, gluten intolerance,
		Tropical Sprue, anal abscess, anal fissure, gastric diverticulum, Diverticulitis, Diverticulosis, Megacolon ,rectal
		prolapsed, dyspepsia, intestinal ulcer, lower GI bleed, Vascular disorders of intestine (intestinal infarction,
		ischemic colitis, mesenteric embolism/infarction/thrombosis, colitis), paralytic ileus, Intussusception, Volvulus,
		stenosis (intestinal, anal)
	GI Disorders, GI supporting organs	<u>Liver:</u> Alcoholic liver disease (fatty liver, fibrosis, cirrhosis), steatorrhea, hepatitis, cholestasis, hepatic failure,
		fibrosis or cirrhosis (non-alcoholic), portal hypertension, Wilson's Disease, jaundice, hepatomegaly
		Gallbladder: Cholelithiasis (gallstones), cholecystitis, obstruction gall bladder (occlusion, stenosis, stricture)
		Biliary tract: Cholangitis, obstruction biliary tract (occlusion, stenosis, stricture), fistula of bile duct, Biliary cyst
		Pancreas: Pancreatitis, Pancreatic pseudocyst, pancreatic insufficiency ,· Pancreatic fistula
	GI Disorders, Infectious Disease	Cholera, typhoid fever, salmonella, shigellosis, Escherichia coli (E. Coli), clostridium difficile, botulism, foodborne
		illness, food poisoning (Listeriosis), amebiasis, rotaviral enteritis, acute gastroenteritis, adenoviral enteritis,
	GI Disorders, Cancers	Neoplasm of oral cavity: tongue, lips, gums, cheek, salivary glands, tonsils, oropharynx, nasopharynx
		Neoplasm of esophagus, stomach
		Neoplasm of intestines: Small (duodenum, jejunum, ileum, Meckel's diverticulum); Colon (Cecum,
		ascending/descending, transverse colon, splenic flexure, sigmoid colon; Rectum/ Rectosigmoid junction, anal
		cancer
		Neoplasm Liver/ biliary/ gall bladder/ Pancreas: Liver cell carcinoma, hepatoblastoma, angiosarcoma, other liver
		sarcomas, extrahepatic bile duct, pancreatic cancer
	GI Disorders, Other	<u>Peritoneum</u> : Peritonitis, peritoneal adhesions, ascites
		Appendix: Appendicitis
		Hernia: Inguinal, femoral, Umbilical, Ventral, Diaphragmatic, abdominal
		Self-Reported Experience
	GI, Experiences	Oral/ Dental Problems: Missing teeth, cavities, tooth pain, dental history
		Sensations associated with ingestion: Trouble chewing, difficulty swallowing, dry mouth (lack of saliva), reports
		of vomiting, regurgitation
		Sensations associated with digestion: Stomach pain, nausea, bloating, abdominal cramps, abdominal pain,
		flatulence, heartburn
		Defecation: diarrhea, constipation, fecal incontinence, fecal abnormalities (abnormal stool color, bulky stools,
		mucus in stools)
		Biochemical Indices
	GI, Biochemical Indices	<u>Liver/ Biliary</u> : Liver Function Test (LFT)-ALT, AST, ALP (alkaline phosphatase), Bilirubin (total and direct),
		Albumin, Total Protein, GGTP/ Gamma GT, PT, LDH; CMP, Hepatitis A, B, C; Copper, Ceruloplasmin, LDH, INR;
		Pancreas: Amylase, Lipase
Metabolic/ Nutrition		FUNCTION
	Function, Metabolic/ Nutrition	<u>Metabolic:</u> carbohydrate metabolism, protein metabolism, fat metabolism, assimilation including breakdown of
		food (enzyme production), absorption of nutrients, food tolerance
		Regulation: weight maintenance, metabolic (basal metabolic rate), thermoregulation, water, mineral,

Outcome	Sub Outcomes	Definitions/ Examples/ Variants included in sub-outcome
		electrolyte balance
		Measure: BMR, body temperature, height, weight, Head circumference, waist-hip ratios, BMI, Percent body fat
		(BIA), Energy Expenditure (double labeled water technique), measured REE (resting energy expenditure)
		DISORDERS
	Metabolic/ Nutrition Disorders,	Kwashiorkor, Nutritional Marasmus, Protein-Energy Malnutrition, Obesity, Morbid obesity, Metabolic
	Over-Under Nutrition	syndrome
	Metabolic Disorders, metabolism	Deficiencies: Vitamin A deficiency (Bitot's spot), Thiamine deficiency (Beriberi, Wernicke's encephalopathy), Niacin deficiency (Pellagra), Riboflavin deficiency (Ariboflavinosis), Pyridoxine deficiency (Vitamin B6 deficiency), Ascorbic acid deficiency (Scurvy), Vitamin D deficiency (rickets, juvenile or infantile only), Vitamin E deficiency, Vitamin K deficiency, Dietary calcium deficiency, Dietary selenium deficiency, Dietary zinc deficiency, Copper deficiency, Magnesium deficiency, Manganese deficiency, Chromium deficiency, Molybdenum deficiency, Vanadium deficiency, Essential fatty acid deficiency
		Hyperalimentation: Hypervitaminosis A, hypercarotenemia, Megavitami-B6 syndrome, Hypervitaminosis D
		Amino-acid metabolism: phenylketonuria (PKU), hyperphenylalaninemia, tyrosine disorders (alkaptonuria, hypertyrosinemia, ochronosis, tyrosinemia, tyrosinosis), Albinism (Chediak-Higashi, cross, Hermansky-pudlak), Histidine metabolism disorder, tryptophan metabolism disorder, Cystinuria, Fanconi syndrome, Hartnup's disease, Lowe's syndrome, Cystathioninuria, Homocystinuria, Methioninemia, sulfite oxidase deficiency, Urea cycle metabolism (Argininemia, Citrullinemia, Hyperammonemia), Ornithinemia, Glycine Metabolism (Hyperhydroxyprolinemia, Hyperprolinemia, Sarcosinemia)
		Branch Chain amino-acid and fatty acid metabolism: Maple Syrup Urine disease (MSUD), Hyperleucine-
		isoleucinemia, hypervalinemia, isovaleric acidemia, methylmalonic acidemia
		Fatty Acid metabolism: Adrenoleukodystrophy (Addison-Schilder syndrome), muscle carnitine palmitoyltransferase deficiency)
		Lactose intolerance (Congenital lactase deficiency, secondary lactase deficiency)
		Carbohydrate metabolism: Glycogen storage disease (Andersen, Cori, Forbes, Hers, McArdle, Pompe, Tauri, von Gierke), Liver phosphorylase deficiency, Fructose metabolism disorders (Fructosuria, Fructose intolerance, Frucotse-1,6-diphosphatase deficiency); Galactose metabolism (Galactokinase deficiency, Galactosemia), Glucose-galactose malabsorption, Sucrase deficiency, Pyruvate metabolism, phosphoenolpyruvate carboxykinase deficiency, pyruvate deficiency, Oxalosis, Oxaluria
		Lipid Metabolism Disorders : Sandhoff disease, Tay-Sachs, Gangliosidosis, Fabry Disease, Gaucher Disease,
		Krabbe Disease, Niemann-Pick, Farber's syndrome, Metachromatic leukodystrophy, Sulfate deficiency, Batten Disease, jansky-bielschowsky disease, Kufs disease, spielmeyer-vogt disease, van bogaert-scherer-epstein syndrome, Wolman's disease
		Lipoprotein Metabolism : Hypercholesterolemia (familial hypercholesterolemia, Fredrickson's hyperlipoproteinemia, hyperlipidemia, LDL hyperlipoproteinemia, VLDL hyperlipoproteinemia, Lipoprotein
		deficiency (High density lipoprotein deficiency, Tangier disease)
		Purine and pyrimidine metabolism: lesch-nyhan syndrome, xanthinuria
		Bilirubin metabolism: Gilbert's syndrome, Crigler-Najjar syndrome, Dubin-Johnson syndrome, Rotor's syndrome
		Mineral metabolism: Copper (Menkes disease, Wilson's disease), Iron (hemochromatosis), Zinc (Acrodermatitis enteropathica), Phosphorus (Acid phosphatase deficiency, hypophosphatemia), Magnesium (hyper/hypo-

Outcome	Sub Outcomes	Definitions/ Examples/ Variants included in sub-outcome	
		magnesemia)	
		Volume Depletion: Dehydration, Hypovolemia	
		Fluid, electrolyte and acid-base balance: Hyperosmolality, hypernatremia, hypoosmolality, hyponatremia,	
		acidosis, alkalosis, hyperkalemia, hypokalemia, fluid overload	
		Self-Reported Experiences	
	Metabolic Self-Reported Experiences	Self-reported height, weight, BMI, family history of obesity, weight loss, weight gain, feverish, chills	
	Nutrition Self-Reported	Excessive thirst, lack of thirst, loss of appetite, dietary intake, dietary/ food frequency questionnaires, food	
	Experiences	diaries, diet history (usual food intake, special diets; intake of vitamins, minerals, herbal medicines	
		Biochemical Indices	
	Biochemical, Metabolic/ Nutrition	Electrolytes (Sodium, Potassium, Co2, Chloride), osmolarity, acid base balance	
		blood minerals (Calcium, cobalt, copper, iron, magnesium, zinc), blood vitamin levels	
		Tests for amino-acid/ carbohydrate/ lipid metabolism, adiponectin	
Nervous System		STRUCTURE	
	Structure, Brain	cortical lobes, mid-brain, diencephalon, basal ganglia and related structures, cerebellum, brain stem, cranial nerves	
		Measure: MR Imaging of brain, CT Scan of brain	
	Structure, Spinal Cord and Spinal Nerves	cervical, thoracic, lumbosacral, cauda equina, meninges	
		Measure: MR Imaging of spinal cord or nerves, CT Scan of spinal cord or nerves, Nerve Conduction Tests	
	FUNCTION		
	Function, Mental (Global / Specific)	Cognition, Executive functioning, Psychomotor, Memory, Attention, Consciousness, Orientation, Intellect,	
	, , , , , , , , , , , , , , , , , , , ,	Emotional, Perceptual, Thought, Higher-Level Cognitive, Complex Movement Sequencing, Experience of Time and Self	
		Measures: Cognitive memory: WAIS digit span backwards/ forward, word list free recall, MIR memory test, coin test, word list recall, recognition test	
		Cognitive mental speed: figure identification, substitution coding tasks, number copy tasks, identical picture, reaction time, number comparison	
		Executive function/ cognitive attention: Stroop, color trails task, serial 7s Cognitive function: MMSE (mini mental state exam); Blessed test, TICS cognitive function test	
	Sleep Exams: actigraphy DISORDERS		
	Nervous System Disorders,	Cognitive: Alzheimer's, Dementia, amnesia	
	Central/Peripheral	Episodic: Epilepsy, status epilepticus, tension headaches, migraine, cluster headache syndrome, transient	
	Central/relipheral	ischemic attack, cerebrovascular attack	
		Inflammatory: meningitis, encephalitis, myelitis, encephalomyelitis, intracranial/intraspinal abscess and	
		granuloma, phlebitis, thrombophlebitis	
		Demyelinating CNS disorders: Multiple sclerosis, Neuromyelitis	
		Nerve system: Trigeminal neuralgia, Facial nerve disorders (Bell's palsy, Melkersson's syndrome, Clonic	
		hemifacial spasm), Cranial nerve disorders, mononeuropathies (carpal tunnel syndrome), Hereditary and	

Outcome	Sub Outcomes	Definitions/ Examples/ Variants included in sub-outcome	
		idiopathic neuropathy (Morvan's disease, Nelaton's syndrome, Sensory neuropathy), inflammatory	
		polyneuropathy (Guillain-Barre syndrome), neuropathy	
		Vascular: Cerebellar stroke syndrome, brain stem stroke syndrome, Cerebral artery syndrome (Middle,	
		anterior, posterior), subarachnoid/ intracerebral/ subdural hemorrhage,	
		Other: Hydrocephalus, Toxic encephalopathy, Brain disorders, Spinal cord disorders, Postprocedural disorders,	
		Anoxic brain damage, Reye's syndrome	
	Nervous System Disorders,	Atrophic: Huntington's disease, Hereditary ataxia, Muscular Dystrophy	
	Movement/Neuromuscular	Muscle/ Myoneural: Myasthenia gravis, Myotonic disorders, Myopathy	
		Movement: Parkinson's disease, Secondary Parkinsonism, Degeneration of Basal Ganglia, Dystonia, Chorea,	
		TICS, Restless Legs Syndrome, tremors, myoclonus	
		Paralytic (paralysis): cerebral palsy, hemiplegia, paraplegia, tetraplegia	
	Nervous System Disorders, Cancer	Brain cancer, spinal cord, meninges, cranial nerves	
		Self-Reported Experiences	
	Nervous System Disorder,	Self-report of everyday memory, temperament and personality, disorientation, forgetfulness, dizziness,	
	Experiences (general or non-	headache (frequency/ intensity), abnormal involuntary body movements, tremors, twitching, staggering gait	
	specific test)	(walking)	
		Biochemical Indices	
	Nervous System, biochemical		
Endocrine		STRUCTURE	
	Structure, Endocrine	Pituitary, Thyroid, Parathyroid, Adrenal Gland	
		Measures: endocrine structure specific X-ray, CT scan, MRI	
	FUNCTION		
	Function, Endocrine	Production and regulation of hormonal levels in body	
		Measures: oral glucose tolerance test, Pituitary function test	
		DISORDERS	
	Endocrine Disorders	Thyroid: iodine-deficiency syndrome, goiter, Thyroiditis, Hyperthyroidism/ hypothyroidism	
		<u>Diabetes</u> : Type 1 (insulin dependent, juvenile-onset), Type 2 (non-insulin dependent, adult-onset);	
		Parathyroidism: hyperparathyroidism/ Hypoparathyroidism	
		<u>Pituitary</u> :, acromegaly, pituitary gigantism, Cushing's syndrome, Nelson's syndrome, Growth hormone	
		deficiency, short stature, Sheehan's syndrome, Simmonds' disease, diabetes insipidus, hyperpituitarism/	
		hypopituitarism	
		Other: congenital adrenal hyperplasia, hyperaldosteronism, adrenocortical insufficiency/ over activity,	
		polycystic ovarian syndrome, estrogen excess, delayed puberty, precocious puberty,	
		hyperadrenalism/hypoadrenalism, hypergonadism/ hypogonadism, Addison's disease	
	Endocrine Disorders, Cancer	Thyroid cancer, adrenal gland cancer, parathyroid cancer, endocrine gland cancer	
		Self-Reported Experiences	
	Endocrine Experiences		
	·	Biochemical Indices	
	Endocrine, biochemical	blood glucose, urine glucose (glycosuria), insulin, blood or urinary ketones, HgBA1c, TSH, T3, T4, PTH, GH	
	,	(growth hormone), IGF-1 (insulin-like growth factor-1/ somatomedin C, cortisol, ACTH, DHEAS, prolactin,	
	I	The state of the s	

Outcome	Sub Outcomes	Definitions/ Examples/ Variants included in sub-outcome
Genitourinary (GU)		STRUCTURE
	Structure, Urinary	Kidneys, Ureters, Bladder, Urethra
		Measures: KUB, cystogram, Cystoscopy, pyelogram, renal/kidney ultrasound or CAT scan
	Structure, Genital & Reproductive	Pelvic floor, Uterus, Breast, Vagina, Vulva, Cervix, Fallopian tubes, Testes, Penis, Prostate, Reproductive system
		Measures: Ultrasound, CAT scan of above structure
		FUNCTION
	Function, Urinary	Urination, filtration
		Measures: urinary function tests
	Function, Genital & Reproductive	Sexual function, fertility, menstruation, reproductive function, sexual function
		DISORDERS
	GU Disorders, Urinary	Renal (Kidney): Nephritic syndrome (glomerular disease, glomerulonephritis, nephritis, nephritic syndrome)
		Renal Tubular Diseases (Nephritis, pyelitis, pyelonephritis, hydronephrosis, nephropathy); prolapsed Kidney,
		kidney stones (calculi), renal colic, renal cyst, Renal Infarct, Renal artery embolism
		Renal (Kidney) Failure (Acute/ Chronic Renal Failure (ARF/CRF), End Stage Renal Disease (ESRD), neuropathy)
		Ureters, Bladder, Urethra: Urinary Infection, cystitis, Bladder stenosis, vesicorectal fistula, obstruction/
		occlusion, Diverticulum of bladder, urethral stricture, urethral fistula, urethral (urethra, urethrocele), prolapsed
		bladder or urethra, bladder stone or urethra stone (calculi), Urinary retention, Overactive bladder, urinary
		incontinence, urinary retention, proteinuria, hematuria, neurogenic bladder, hematuria
	GU Disorders, Genital &	Male Genital: Prostate disorders: Hyperplasia of prostate, prostate inflammation (prostatitis), abscess of
	Reproductive	prostate; Penis or Testes disorders: priapism, impotence, penis or testes atrophy, hypertrophy, or thrombosis
		Male Reproductive: Male infertility
		Female Genital: breast or mammary duct disorders: Dysplasia, breast cyst or abscess, mastitis, atrophy,
		hypertrophy, galactorrhoea;
		Pelvic organ disorders: abscess or inflammation of fallopian tube, ovary, cervix, or vagina/ vulva including endo
		or myometritis, vaginitis, vulvitis;
		Genital tract disorders: Endometriosis, genital prolapsed, genital fistula, follicular cyst, polyp in genital (uteri,
		cervix, vagina, vulva), vesicointestinal fistula
		Female Reproductive: Amenorrhea (absent menstrual periods), Dysmenorrhea (painful menstrual periods),
		Menorrhagia (heavy menstrual periods), infertility
		Pregnancy: disorders with childbirth, disorders with lactation, menopause, abortion (spontaneous/ medical/
		other), ectopic pregnancy, Pre-eclampsia (pregnancy induced hypertension), hyperemesis, gestational diabetes,
		polyhydramnios, placenta previa, placenta abruptio, hemorrhage
	GU Disorders, Sexually transmitted	Syphilis, Chlamydia, gonorrhea, herpes, genital warts, chancroid, lice and trichomoniasis, pubic lice, pelvic
	diseases/ infections (STD/STI)	inflammatory disease (PID), human papilloma virus (HPV)
	GU Disorders, Cancer	Urinary: Cancers/tumors of the kidney, bladder, urethra; bladder papilloma
		Genital: Cancer/tumors of the uterus, cervix (cervical cancer), vagina, ovarian, placenta, prostate, breast, Penis
		(penile), testes
		Self-Reported Experiences

Outcome	Sub Outcomes	Definitions/ Examples/ Variants included in sub-outcome	
	Urinary Experiences	Self-reported urinary frequency, Urinary Incontinence, urinary discomfort or pain, incomplete voiding of urine,	
		feeling bladder fullness, night time urination frequency (nocturia), blood in urine	
	Genital & Reproductive	Sexual relations/ drive; sexually transmitted diseases, sexual arousal or resolution; use of birth control;	
	Experiences	Male: Penile discharge	
		Female: Self report of menstruation regularity, abnormalities or pain; child birth history (pregnancy, abortions,	
		pregnancy complications),	
		Self-reported surgeries: Hysterectomy, Oophorectomy, mastectomy, vasectomy	
		Biochemical Indices	
	Urinary Biochemical	Urinalysis, urine culture, BUN, Creatinine, Creatinine clearance, Urinary protein, estimated GFR, Microalbumin	
	Genital & Reproductive,	pap smear, STD testing (chlamydia, Gonorrhea, Trichomoniasis, Syphilis, Herpes, HPV, HIV/AIDS), Testosterone,	
	Biochemical	Estrogen, Progesterone, genital organ specimens, FSH, LH	
Hematological/		STRUCTURE	
Immune System	Structure, Hematological/Immune	Lymphatic vessels, lymphatic nodes, thymus, spleen, bone marrow	
	System		
		Measure: physical examination of structures	
		FUNCTION	
	Function, Hematological System	blood production, oxygen-carrying functions, metabolite-carrying functions, clotting functions	
		Measure: biopsy of lymph node, thymus, spleen, bone marrow or bone marrow aspirate	
	Function, Immunological System	Immune response (specific and non-specific), hypersensitivity reactions, lymphatic vessel functions, lymph	
		nodes functions	
		Measure: Cytokines: IL-1, IL-6, TNF-a	
	DISORDERS		
	Hematological Disorders, blood	Anemia, nutritional deficiencies: Iron, B12, Transcobalamin II, Folate, Megaloblastic, Protein deficiency	
		anemia, chronic anemia	
		Anemia, Hemolytic: G6PD, thalassemia, sickle cell anemia, sickle cell trait, spherocytosis, elliptocytosis,	
		idiopathic hemolytic anemia	
		Anemia, Aplastic: Aplastic anemia, Blackfan-Diamond syndrome, hypoplastic anemia, Fanconi's anemia,	
		Pancytopenia	
		Coagulation defects: Afibrinogenemia, coagulopathy, DIC (disseminated intravascular coagulation), Purpura,	
		Factor VIII deficiency, Factor IX deficiency, Christmas disease, Hemophilia B, Von Willebrand's disease, Factor	
		Deficiencies (I, II, V, VII, X, XII, XIII) dysfibrinogenemia, Owren's disease, Vitamin K deficiency,	
		Other: Eosinophilia, disorders of WBC (leukocytosis, lymphopenia, monocytosis, plasmacytosis),	
		Agranulocytosis (neutropenia), Methemoglobinemia, erythrocytosis, polycythemia, thrombocytosis,	
		Spleen: Hyposplenism/ atrophy of spleen, hypersplenism. Splenomegaly, cyst/ abscess of spleen, splenic	
		rupture	
	Hematological/ Immune system	Lymphosarcoma, Acute lymphoblastic leukemia (ALL), Chronic Lymphocytic leukemia, Myeloid Leukemia,	
	Cancers:	Monocytic leukemia, Malignant histiocytosis, B-cell lymphoma, Non-Hodgkin's Lymphoma, Hodgkin's Disease, T-	
		cell Lymphoma, Multiple myeloma,	
	Disorders, Immunological System	Immunodeficiency: Hypogammaglobulinemia, IgA deficiency, IgG deficiency, IgM deficiency, SCID (severe	
		combined immunodeficiency), ADA deficiency (Adenosine deaminase), Nezelof's syndrome, PNP deficiency	

Outcome	Sub Outcomes	Definitions/ Examples/ Variants included in sub-outcome	
		(Purine nucleoside phosphorylase), Wiskott-Aldrich syndrome, DiGeorge syndrome, Hyperimmunoglobulin E	
		syndrome (IgE), B or T-cell deficiency, Sarcoidosis, HIV/AIDS	
		Self-Reported Experiences	
	Hematological/Immune	Easy bruising, bleeding	
	Experiences		
		Biochemical Indices	
	Hematological Biochemical	RBC, WBC, Hemoglobin, Hematocrit, Platelets, MCV, Fe, B12, Folate, albumin, prealbumin, total protein, Ferritin, Serum coagulation factors (fibrinogen, prothrombin, tissue factor, VI, VII, VII, VII, IX, X, XI, XII, XII	
		Willebrand factor, prekallikrein, HMWK, fibronectin, antithrombin III, heparin cofactor II, protein C, protein S, protein Z, Z-related protease inhibitor (ZPI), plasminogen, alpha 2 anti-plasmin, tPA, urokinase, PAI1, PAI2)	
	Immunological Biochemical	Killer T cells, helper T cells, TCRab, CD3, CD4, CD8, NK cells, CD16, CD56, Immunoglobulin A (IgA), G (IgG), M (IgM), E (IgE), RAST test,	
Musculoskeletal,		STRUCTURE	
Connective Tissue	Structure, Musculoskeletal	bones, joints, muscles, extra-articular ligaments, fasciae, extramuscular aponeuroses, retinacula, septa, bursae	
		Measure: Bone x-rays, DEXA/bone densitometry, bone density scan/ dual-energy X-ray absorptiometry/ DXA,	
		bone biopsy	
	FUNCTION		
	Function, Musculoskeletal	Mobility of joints, stability of joints, mobility of bones, muscle power, muscle tone, muscle endurance, motor	
		reflexes, control of voluntary movement, involuntary movement	
		Measure: flexibility, strength, flexion, timed walk, gait, extension, coordination	
	DISORDERS		
	MSK disorders, Skeletal	Inflammatory: Osteoarthritis, Rheumatoid arthritis, Juvenile arthritis (rheumatoid, JRA), gout, Ankylosing spondylitis, osteomyelitis	
		acquired or congenital deformities of joints, fingers, toes, limbs, nose, cauliflower ear, head, neck, rib, chest, pelvis, Kyphosis, Iordosis, scoliosis, Spinal osteochondrosis, torticollis, Paget's disease, slipped epiphysis	
		Bone density/ structure : osteoporosis, osteomalacia, bone fracture or dislocation, fluorosis, hyperostosis, bone cyst, osteonecrosis, osteolysis, hypertorophy of bone, osteochondrosis, chondromalacia, chondrolysis, osseous stenoisis, arthrosis, degeneration of joints, spinal stenosis, stress fracture of vertebra, ossification, cervical/	
		intervertebral disc disorders, dorospathies, sciatica, spondylosis	
	MSK disorders, Tissue	Connective tissue disorders: Systemic lupus erythematous (SLE), dermatomyositis, sclerosis, CREST syndrome, Sjogren's syndrome, Behcet's disease, Polymyalgia, Fasciitis, Weber-Christian disorder, Hypermobility syndrome (Ehlers-Danlos syndrome), enthesopathy	
		Soft tissue : Myositis, calcification/ ossification of muscle, myalgia (fibromyalgia), diastasis of muscle, muscle wasting or atrophy, muscle strain, bursitis, fibromatosis, tendinitis, bone spur, capsulitis, periarthritis,	
	MSK disorders, Cancer	Skeletal: Neoplasm of bone or cartilage including skull, face, jaw (mandible), head and neck cancer, vertebral column, ribs, sternum, clavicle, pelvic bones, sacrum, coccyx, mediastinum,	
		Soft Tissue: Connective tissue cancers, soft tissue of head, face or neck, muscles, tendons, tissue of abdomen, groin, upper or lower limbs	
		Self-Reported Experiences	

Outcome	Sub Outcomes	Definitions/ Examples/ Variants included in sub-outcome
	MSK experiences	lower back pain, trouble walking-non neurological (staggering, falling, lack of coordination), bone fractures
		Osteoporosis Self-Assessment Screening Tool (OST score)
		Biochemical Indices
	Biochemical, MSK	Serum bone-specific alkaline phosphatase (B-ALP), serum osteocalcin, serum propeptide of type I procollagen (PINP or PICP), Osteocalcin (OC,BGP), Urine and serum cross-linked N-telopeptide (NTX), urine total free deoxypyridinoline (DPD), urine and serum cross-linked C-telopeptide (CTX), Hydroxyproline total or dialyzable (OH-Pro, OHP), Pyridinoline (PYD, Pyr), Cross-linked C-terminal telopeptide of type I collagen (ICTP),
		Hyddroxylysine-glycosides (Hyl-Glyc), Bone siloprotein (BSP), Tartrate-resistant acid phosphatase (TR-ACP), Free gamma carboxyglutamic acid (GLA), Anti CCP
Skin		STRUCTURE
	Structure, Skin and related	areas of skin (head, shoulder, upper extremity, pelvic, lower extremity, trunk and back), skin glands, nails, hair
	structures	areas or sum (nead, shoulder, apper entirement, period) to the entire entire sum and sacinf, sum grantes, name,
		Measure: Physical exam/ report of structures, skin biopsy
		FUNCTION
	Function, Skin	protective functions (skin/hair/nails), repair functions, sensation
		DISORDERS
	Skin and related structure	Bullous disorders: Pemphigus, Acantholytic (keratosis follicularis, acantholytic dermatosis), Pemphigoid,
	Disorders	Duhring's disease, Sneddon-Wilkinson disease
		<u>Dermatitis/ Eczema</u> : Atopic dermatitis, Seborrheic dermatitis, Diaper dermatitis, Allergic/Irritant contact
		dermatitis, Hebra's pityriasis, Lichen simplex chronicus or prurigo
		Papulosquamous disorders: psoriasis, parapsoriasis, pityriasis rosea, lichen planus
		Nails: Ingrown nails, onycholysis, onychogryphosis, nail dystrophy, yellow nail syndrome Hair: (hair loss) alopecia areata, androgenic alopecia, hypertrichosis, Glands: acne, rosacea, follicular cysts, sweat disorders (bromhidrosis, chromhidrosis, Fox-Fordyce disease,
		miliaria rubra)
		other: Urticaria(hives) and erythema (rash/redness), Sunburn, cyanosis, petechiae, vitiligo, freckles, cafe au lait spots, melanin hyperpigmentation, angioma serpiginosum, Leser-Trelat disease, acanthosis nigricans, Callus, corn, bunion, clavus, Ichthyosis, decubitis ulcer, skin ulcer, gangrene
	Skin Disorders, Infectious Disease/Viral	Infectious: Ritter's disease, Impetigo, Boil, Cutaneous abscess, cellulitis, Pilonidal cyst, septic/purulent dermatitis, Erythrasma, Athlete's foot (tinea pedis)
		<u>Viral</u> : Herpes simplex, cold sore, Varicella (chicken pox), Zoster herpes (shingles), smallpox, monkey pox, measles, rubella, viral warts (verruca simplex/vulgaris), Exanthema subitum (sixth disease), Erythema infectiosum (fifth disease), enteroviral lymphonodular pharyngitis, foot and mouth disease, Tanapox virus disease, Yaba pox virus disease
	Skin Disorders, Cancer	Melanoma, basal cell carcinoma of lip, eyelid, skin of ear, external auricular canal, pace, scalp and neck, skin of trunk, skin limbs; Mesothelioma, Kaposi's sarcoma,
	Self-Reported Experiences	
	Skin, Experiences	rash, skin eruptions including acne, clammy skin, flushing (excessive blushing), scaling
Infectious and		DISORDERS
Parasitic Disease	Infectious Disease, Viral	Poliomyelitis (polio), Creutzfeldt-Jakob disease, encephalitis, leukoencephalitis, Rabies, Viral encephalitis, Tick-

Outcome	Sub Outcomes	Definitions/ Examples/ Variants included in sub-outcome
		borne viral encephalitis, viral meningitis, Coxsackievirus, Dengue fever, West Nile Virus, Sandfly fever, Yellow fever, Hemorrhagic fever, Hepatitis A, Hepatitis B, Hepatitis C, Cytomegalovirus (CMV), Mumps, Viral conjunctivitis
	Infectious Disease, Bacterial	Zoonotic: Plague, Tularemia, anthrax, brucellosis, glanders and melioidosis, Rate-bite fevers (spirillosis, Haverhill fever), Erysipeloid, Leptospirosis, Cat-scratch Fever,
		Other: Leprosy, Tetanus, Diphtheria, Whooping cough, Scarlet Fever, Meningococcal infection, Streptococcal septicemia (strep throat), septicemia, actinomycosis, nocardiosis, bartonellosis, erysipelas, Legionnaires disease, toxic shock syndrome, Purpuric fever, bacterial meningitis
		Rickettsioses: Typhus fever, spotted fever, Q fever, Trench fever, Rickettsialpox
	Infectious Disease, Mycoses (fungal)	Candidiasis, Histoplasmosis, Aspergillosis, Cryptococcosis, Fungemia
	Infectious Disease, Parasitic	Protozoal: Malaria, Leishmaniasis, Chagas disease, toxoplasmosis
		Helminthiasis: tapeworm, Trichinellosis, Hookworm disease
		Head lice (pediculosis), scabies, myiasis,
Sensory		STRUCTURE
	Structure, Eye	Eye socket, eyeball (conjunctiva, cornea, iris, retina, lens, vitreous body), lachrymal gland, eyelid, eyebrow, external ocular muscles
		Measure: eye or orbit ultrasound (A or B scan) Echography - eye orbit; Ocular ultrasonography; Orbital ultrasonography, ophthalmoscopy
	Structure, Ear	External ear, middle ear (tympanic membrane, eustachian canal, ossicle), inner ear (cochlea, vestibular labyrinth, semicircular canals, internal auditory meatus)
		Measure:
	Structure, Nose	external nose, nasal septum, nasal fossae
		Measure:
		FUNCTION
	Function, Sensory Eye (Vision)	Vision, visual acuity, visual field, quality of vision, functions of internal muscles of the eye, functions of eyelid, functions of external muscles of the eye, lachrymal gland function
		Measure : Comprehensive eye examination: test for visual acuity, pupil function, extraocular motility, visual fields, measure of intraocular pressure, snellen vision test
	Function, Sensory Ear (Hearing)	Auditory, sound detection, sound discrimination and localization, speech discrimination
		Measure: hearing test, Auditory Brainstem Response (ABR), Electronystagmography (ENG), Otoacoustic Emissions (OAE), Audiogram
	Function, Sensory Nose (Smell/Taste)	taste, smell
		Measure: smell identification test
	Function, Sensory Other	proprioception, touch
		DISORDERS
	Sensory Disorders, Eye	Eyelid: Inflammation of eyelid (abscess, stye), chalazion, blepharitis
		<u>Lacrimal system:</u> Dacryoadenitis (enlarged lacrimal gland), dacryops, dry eye syndrome, lacrimal cyst or gland

Outcome	Sub Outcomes	Definitions/ Examples/ Variants included in sub-outcome
		atrophy
		Orbit: Inflammation, granuloma, displacement, hemorrhage,
		Retina: retinal detachments or break, vascular occlusions, retinal vascular changes, retinal changes
		Optic Nerve/ Visual Disturbances: Neuritis, optic atrophy, optic dis disorders, visual cortex disorders, paralytic
		strabismus, strabismus, amblyopia, day blindness, photophobia, sudden vision loss, visual halos, diplopia, blind
		spots, color blindness, night blindness, snow blindness
		Lens: cataracts, congenital lens malformations, mechanical complication of intraocular lens, dislocation of lens
		Conjunctivitis, conjunctival hemorrhage, cysts, scleritis, Keratitis, corneal ulcer, corneal pigmentations and
		deposits, corneal degeneration, corneal dystrophy, iridocyclitis, degeneration of iris, glaucoma
	Sensory Disorders, Ear	ear abscess, cellulitis of external ear, swimmer's ear, otitis media, mastoiditis, perforation of tympanic
		membrane, otosclerosis, vertigo, deafness, hearing loss
		Self-Reported Experiences
	Sensory Eye (Vision) Experiences	Hallucinations, blurry vision, changes in vision, double vision, dry eyes, eye discomfort, use of eye correction
		glasses or contact lenses.
	Sensory Nose (Smell/ Taste)	changes in taste or smell, lack of taste/ smell, hypersensitivities in taste / smell
	Experiences	
	Sensory Ear (Hearing) Experiences	sensations associated with hearing and vestibular functions (tinnitus, dizziness, sensation of falling, irritation of
		the ear, aural pressure), hearing aide use, reports on trouble hearing
	Sensory Experiences, other	Changes in sense of touch, problems related to sense of touch, hypersensitivity, lack of sensitivity, reports of
		spatial problems or perception
Development	Developmental	Age of talking/ said first words, age of walking, social, motor development
Milestones	Pubertal	Age of puberty (tanner scale), change in voice/ face hair (for males); first period (for females)
Functional autonomy	Activities of daily living	Activities of daily living: Things we normally do, such as personal hygiene & grooming, dressing and undressing,
		self-feeding, functional transfers (e.g., getting to bathroom, getting on/off toilet), ambulation without
		assistance, housework, taking medications as prescribed, managing money, shopping for clothes and food,
		transportation within community, able to use phone or other means of communication, ability to get up in the
		morning
	School/ Occupation	going to work, school attendance, school related behaviors
	Self-Care	Self-Care: Able to take care of self; need for home help or care by others
	Hobbies	Hobbies, reports of engaging in leisure time hobbies and activities
Special Health Care	Physical Disability	Report of physical handicap, disability, or abnormality
Needs	Mental / Emotional Difficulties	Report of general mental or emotional/behavioral problems
	Developmental Delay	Reports of developmental delay, including speech/ language
	Learning difficulties	Reports of learning disability or problems
General Health History	Family Health History	Family history of health: Parent longevity (age parents died), health history of immediate and distant family members
	Health Care Utilization	Self-reported health care service use
	Medication use	Medication use (type, number, frequency, use over the counter (OTC) meds)
	General Health Status	Self-rated health: Overall, relative to age, relative to past; The short form (36) health survey – patient health (SF-
	Seneral ficalcii Status	36)
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Outcome	Sub Outcomes	Definitions/ Examples/ Variants included in sub-outcome
	General Pain/ Fatigue	Pain/fatigue: General reports of pain or fatigue-not related to a system, general energy level, exhaustion
	General physical exam	General physical exam, the results of last physical or reason for last physical (if frequency go to "medical
		checkup")
	General symptoms	Reported symptoms that cannot be otherwise specified to a system
	Surgical History	Reports of surgical procedures, , surgical history (checklist)
	Chronic Health Condition	History of chronic health condition not specified in other systems
	Death outcome report	Age of death, cause of death
		Positive Psychological Functioning
Engagement	Classroom involvement	Involvement in classroom activities (e.g., does all activities)
	School involvement	Involvement in school activities
	Club involvement	Involvement in clubs, organizations, societies, etc.
	Community involvement	Involvement in community, including volunteering and service activities
	Interest	Interest in activities
	Passion	Passion for doing things (high desire)
	Concentration	Concentration level for activities, schoolwork, job
	Learning enjoyment	Enjoyment of learning new things
	Other engagement	Other engagement variables, not included above
Perseverance	self-efficacy	Belief you are capable of performing to attain goals
	grit	Sticking with activities despite challenge
	Pursuing goals	Extent to which person sets and sticks with working toward goals
	Enjoyment of challenge	Enjoys and seeks out challenges
	Single items	Words or single items that reflect perseverance; e.g., self-discipline, persistence, perseverance, diligence
	Resilience	Measures of overall resilience
	Other perseverance	Other perseverance items not included above
Accomplish	Subjective sense	Feelings about your own accomplishments
	Perceived competence	Feelings or perceptions of competence in an activity/domain
	Mastery	Comprehensive knowledge/skill in a subject
	goal achievement	Achieving goals
	objective success	e.g., Occupational/job performance; academic achievement; honors or awards received
	Other accomplishment	Other accomplishment items, not included above
Optimism	hope for the future	General sense of feeling hopeful about future outcomes or expecting positive outcomes (e.g., glass is half-full
		perspective)
	Mood/ emotion	Measured as a mood or emotion (e.g., optimistic feeling)
	explanatory style	Optimistic versus pessimistic style of how people explain why they experience an event (global versus specific, internal
		vs. external, unstable vs. stable)
	Trust	Extent to which person sees the world and people around them as trustworthy and stable (i.e., optimistic perception of
		others)
	Unrealistic optimism	Indication of being optimistic when not appropriate or even harmful
	Other optimism	Other optimism items, not included above
Relationship/	Perceived support	Subjective feeling of being supported by others

connectedness	Social ties	Number of friends or acquaintances
connecteuriess	Social closeness	How close feels to friends or others
	Social network	Measure of who is in social network (e.g., list names of friends)
	Received support	Objectively measured received support
	Giving support	Providing support to others (Note: this is separate from caregiving, which is a long-term state of providing support and
		care to others. Here, it refers to acts of providing support or the extent see self as a giving person)
	Parent connectedness	Items reflecting feeling close to, spending time with, and feelings about parents
	Teacher connectedness	Items reflecting feeling close to, spending time with, and feelings about teachers
	Peer connectedness	Items reflecting feeling close to, spending time with, and feelings about peers
	Coworker connectedness	Items reflecting feeling close to, spending time with, and feelings about coworkers
	Family connectedness	Items reflecting feeling close to, spending time with, and feelings about family
	Significant other connectedness	Items reflecting feeling close to, spending time with, and feelings about significant others
	Negative social relationships	Negative relationships with others (e.g., hostile relationships, dislike of others, being excluded by others)
	Loneliness	Feelings of loneliness
	Other relationship	Other social relationship variables not included above
Happiness/	Trait happiness	A measure of happiness that reflects trait-like characteristics (e.g., in general, how happy are you as a person)
positive	Valence/ exuberance	Items that reflect emotional value associated with a stimulus/ joyful enthusiasm (not part of a named scale)
emotion	Positive affect/ emotion	Words that reflect positive affect, emotion, or mood (e.g., happy, joyful, calm, relaxed)
	Affect scales	Scales that specifically measure positive affect (e.g., PANAS, general happiness questionnaire)
	Other happiness	Other happiness items not included above
Meaning/	Sense of meaning/ purpose	Subjective sense of having a reason for or purpose for life
purpose	Self-transcendence	Process of going beyond our current limitations – spiritual concept
	Connection to greater	Feeling connected to a cause or being greater than self
	Other meaning	Other measures of meaning, not included above
Life satisfaction	General life satisfaction	An overall sense of life satisfaction
	Health satisfaction	Rated satisfaction with health
	Relationship satisfaction	Rated satisfaction with relationship (e.g., marital satisfaction, friend satisfaction)
	Economic satisfaction	Economic satisfaction (satisfaction with socioeconomic status)
	Job satisfaction	Rated satisfaction with job (or aspects of it)
	Satisfaction with life scale	Diener 5 item scale
	Satisfaction measures	Other full scales measuring life satisfaction
	Other satisfaction	Other items related to satisfaction, not included above
	<u> </u>	Negative Psychological Functioning
Externalizing	Physical aggression	Aggressive acts directed toward others (more common with boys)
behaviors	Relational aggression	Aggressive acts through words or indirect means (more common with girls)
benaviors	Bullying	Bullying or threatening others
	Fighting	Indicators of fighting behavior
	Detention	Number of, frequency, or extent of receiving detention due to behavior
	Acting out	General behaviors aimed at acting out toward others
	Juvenile delinguency	Adolescents - engaging in crime and other illegal activities: vandalism, theft
	Adult Criminal Behavior	Adults - engaging in crime and other inlegal activities: vandalism, theft
	Arrests	By the police

	Incarceration	Ever incarcerated? For how long? Why
	Hostility	Hostile or angry attitudes or behaviors directed toward others
	Single item	Single items assessing violent, aggressive, anti-social, or other hostile behaviors
	Other externalizing	Other externalizing behavioral or attitudinal items not included above
Depression	CES-D	Specific measure of depression
	BDI	Beck depression inventory
	Depression measures	Full measures of depressive symptoms, other than the CES-D & BDI
	Single items	Single items assessing depressive symptoms (e.g., feeling depressed, sadness, down)
	Suicide	Items or measures related to suicidal thought, behavior, or attempts
	Depression medication	Indication of medication taken to control depressive symptoms
	Depression diagnosis	Diagnosis of depression (major, seasonal, dysphoria, postpartum)
	Bipolar disorder	Diagnosis of bipolar disorder (combined mania and depression)
	Bipolar medication	Medication for bipolar symptoms
	Bipolar items	Items assessing bipolar symptoms
	Other depression	Other depression items not included above
Anxiety	Panic/ phobias	Measures or items about or diagnosis of panic attacks and specific phobias
	Single items	Single items assessing anxiety symptoms (e.g., heart racing, feeling anxious)
	Anxiety measures	Full measures of anxiety symptoms
	Generalized anxiety	Items or diagnosis of generalized anxiety disorder
	Anxiety medication	Indication of medication taken to control anxiety symptoms
	Anxiety diagnosis	Diagnosis of anxiety
	Other anxiety	Other anxiety-related items not included above
Stress reactions	Somatic reactions	Reported physical reactions to stress (e.g., stomach cramps, headaches, tight muscles, feeling sick, trembling) – note that
		these are reactions to stress, not general measures (if general, include in physical category above)
	Physiological response	Physiological measures of stress (e.g., cortisol, body temperature, heart rate) – note that these are specifically used as a
		response to a stressor, not general measure of (if general measure, include in physical categories listed above)
	Psychological reactions	Subjective perceptions of stress
	Single items	Single items assessing reactions to or feelings of stress
	Nervous breakdown	Evidence of full nervous breakdown due to stress
	PTSD	Measures of or diagnosis of post traumatic stress disorder
	Other stress reactions	Other reactions to stress, not included above
Other	ADHD	Attention deficit disorder or other problems paying attention
psychopatholo	Psychiatric condition	Existence of psychopathology (other than depression, anxiety, and others listed); e.g., schizophrenia, personality
gy		disorder, OCD
	Psychiatric treatment	Medication, therapy, or other treatment for a psychiatric condition
	Psychiatric evaluation	General evaluation of psychopathology (not diagnosis)
	MMPI	Minnesota multi-phasic inventory – common measure of psychopathology
	Psychiatrist	Visits to psychiatrist or doctor for medicinal treatment
	Psychologists	Visits to psychologists or other mental health professional for counseling or therapy
	Psychiatric hospitalization	Hospitalization or in-patient treatment for mental problems, including drug or alcohol rehab
	Eating Disorders	Eating extremely small amounts of food or severely overeating; spiraled out of control. Severe distress/concern about
		body weight or shape.

	Other psychopathology	Other items related to psychopathology, not included above
Negative Affect	Affect scales	Scales that specifically measure negative affect (e.g., PANAS)
	Negative affect/ emotion	Words that reflect negative affect, emotion, or mood (e.g., sad, depressed, bad, angry)
	Other negative affect	Other negative affect items not included above
		Health Behaviors
Diet/ nutrition	Diet behavior	Are you following a diet to gain or lose weight? Follow one in the past
	Food frequency	How often eat various foods
	General nutrition	Vitamins, supplements, minerals, herbs, feelings about nutrition in general
	Special diet	Indicator of special diet (e.g., high fat, low fat, low carb, vegetarian/vegan, paleo, Mediterranean, Atkin's, South Beach,
		Weight watchers)
	Specific foods	Food checklist
	Other diet	Other diet-related questions or measures, not included above
Physical activity	Activity classification	Classification of how active the person is: low, medium, high
	Activity participation	Sport and other activity participation
	Aerobic fitness	Self or other reports of fitness
	Duration	When exercise, for how long
	Frequency	How often engage in activities
	Intensity	Intensity of activities (low, moderate, vigorous)
	Leisure time activities	Free response or checklist of activities done in leisure time
	Measured fitness	Physiological measures of fitness (e.g., fitness test
	Work activity	Work related physical activity
	Other activity	Other activity related measures, not included above
Sleep	Daytime sleepiness	Troubles with sleepiness during the day
	Feeling rested	How rested feel, awake feeling rested
	Hours sleep	Hours typically sleep per night; time falling asleep/ waking
	Measurement	Polysomnography (test used to check for sleep disorders)
	Naps	Takes naps, frequency of naps
	Quality	Quality of sleep (rated overall quality of sleep)
	Sleep disruptions/disorders	teeth grinding (bruxism), night terrors, insomnia, hypersomnia, narclepsy, restless leg syndrome, sleep apnea, sleep
		paralysis, nocturia
	Trouble sleeping	Self-reported problems sleeping (falling asleep, staying asleep, waking too early)
	Other sleep	Other sleep related measures, not included above
Tobacco/	Dependency	Assessment of addiction or dependency on tobacco
smoking	Frequency	How often smoke or use tobacco-related products
	Problems	Occurrence of problems due to tobacco use
	Quantity	How much smoke or use tobacco-related products, packs per day or year
	Smoking status	Current smoker, smoked in past, non-smoker
	Tobacco use status	Use of tobacco currently or in the past (other than smoking)
	Treatment	Attempts to quit, experiences with, indicators of treatment for tobacco problems
	Other tobacco	Other measures or items, not included above. Note: if there is a detailed assessment of smoking or tobacco use, code the
		main items into the above categories, and note that there are additional detailed items, rather than include all variants
		here.

Drug use	Dependency	Assessment of addiction or dependency on drugs
-	Drug use status	Current user, past use, never use
	Frequency	How often use drugs
	Problems	Problems experienced due to drug use
	Quantity	How much use illicit drugs
	Treatment	Attempts for, experiences with, indicators of treatment for drug problem
	Туре	Type of drugs used (illegal drugs)
	Other drug	Other measures or items, not included above. Note: if there is a detailed assessment of illicit drug use, code the main
		items into the above categories, and note that there are additional detailed items, rather than include all variants here.
Alcohol	Alcohol use status	Current drink, past drink, never drink
	Binge drinking	Indicators of binge drinking (5+ drinks at one time)
	Dependency	Assessment of addiction or dependency on alcohol
	Frequency	How often consume alcohol
	Problems	Problems experienced due to alcohol use
	Quantity	How much alcohol consumed when drink
	Treatment	Attempts for, experiences with, indicators of treatment for alcohol problems
	Туре	Type of alcohol consumed (beer, wine, spirits)
	Other alcohol	Other measures or items, not included above. Note: if there is a detailed assessment of alcohol use, code the main items
		into the above categories, and note that there are additional detailed items, rather than include all variants here.
Sexual	Condom use	Use of condoms
behavior	Homosexuality	Homosexual or bisexual orientation and experiences
	Knowledge	Sex education classes, other assessment of knowledge about safe practices
	Partners	Number of partners or people having sex with
	Prevalence	Engagement in sexual behavior, abstinence
	Safe sex practices	Safe sex practices other than condom use: contraceptive pill, immunization (HPV), STI testing, sexual health checkups
	Teenage pregnancy	Indicators of teenage pregnancy
	Other sexuality	Other sex related behaviors or measures not included above Note: if there is a detailed assessment of sex behavior, code
		the main items into the above categories, and note that there are additional detailed items, rather than include all
		variants here.
Other	Driving behavior	Indicators of safe or risky driving (e.g., seatbelt use, driving under the influence, speeding, # accidents)
behaviors	Flu vaccine	Flu and pneumonia vaccinations (e.g., do they get an annual vaccine)
	General medical checkups	Frequency of visiting doctor as a general check up (i.e., not in response to illness); when last physical exam performed (if results of last physical or reason for last physical go to "physical exam")
	Immunizations	Records and indications of immunizations (measles, tetanus, etc.)
	Risky activities	Engagement in activities that are inherently dangerous (e.g., sky diving, rock climbing, bungee jumping)
	Skin protection	Behaviors to protect skin (sunscreen use, avoiding sun, wear long sleeves, use hat) or place at risk (tanning, frequency of burning)
	Teeth care	Care for teeth (frequency of brushing, flossing, use of mouth rinse, visiting dentist for cleaning (note: under physical health, code indicators of state of teeth & diseases related to teeth or gums. Here code behaviors done to protect teeth).
	Other risky behaviors	Other risky behaviors, not included above
	Other protective behaviors	Other protective behaviors, not included above,
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		Individual differences
Intelligence	Crystallized intelligence	Gc: the breadth and depth of a person's acquired knowledge, the ability to communicate one's knowledge, and the ability
		to reason using previously learned experiences or procedures
	Emotional intelligence	ability, capacity, skill or, a self-perceived ability to identify, assess, and control the emotions of oneself, of others, and of
		groups
	Fluid intelligence	Gf: broad ability to reason, form concepts, and solve problems using unfamiliar information or novel procedures
	General intelligence	Specific measure of G, or general intelligence (e.g., Raven's progressive matrices)
	IQ quotient	IQ quotients available (M = 100, SD = 150
	IQ tests	Common intelligence tests: WAIS intelligence exam, Stanford-Binet, Kaufman Assessment Battery for children (Note: for
		item variants, note test or measure, not every item on the test)
	Perceived intelligence	Perceived intelligence, as rated by self, teacher, or other
	Scholastic aptitude	Closely related to intelligence. Include SSAT, SAT, ACT, GRE, LSAT, MCAT, GMAT
	Specialized intelligence	Multiple types of intelligence (logical, linguistic, spatial, musical, kinesthetic, interpersonal, intrapersonal, naturalist and existential)
	Other intelligence	Other intelligence or ability related items, not included above (Note: use categories above, unless something seemingly
		important is missing. Otherwise, exclude item)
Coping Style	Accommodative	Aimed at adapting or adjusting to effects of the stressor (e.g., slowing down with age – recognize this and allow more
		time for things)
	Disengagement	Disengaging from situation or stressor (e.g., quitting job to get out of a very stressful position)
	Escape	Type of emotion focused coping that is aimed at minimizing distress triggered by stressors by escaping (e.g., avoidance, denial, wishful thinking)
	Expressing negative emotion	Type of emotion focused coping that is aimed at minimizing distress triggered by stressors by expressing negative emotion (e.g., yelling, crying, hitting a pillow)
	Focus on thought	Type of emotion focused coping that is aimed at minimizing distress triggered by focuses on thought (e.g., rumination, mindfulness)
	Meaning-focused	Reordering priorities and adding positive meaning (e.g., after a heart a attack, recognizing that you didn't spend time with you children. You reprioritize, and value the attack)
	Proactive	Problem-focused accumulation of resources specifically to prevent threatening or harmful circumstances from arising
		(e.g., expecting a layoff, so you save money & apply for jobs; hurricane expected so you get extra supplies and board up windows)
	Problem-focused	Directed at the stressor itself: taking steps to remove or to evade it, or to diminish its impact (e.g., upcoming stressful
		exam, so you cancel social plans and spend extra time studying)
	Self-soothing	Type of emotion focused coping that is aimed at minimizing distress triggered by stressors by self-soothing (e.g.,
	_	relaxation, seeking social support)
	Other coping	Other coping variables not included above (Note: use the above categories and otherwise exclude, unless there is
		something important missing)
Temperament	Infant classification	Group classification: easy, slow to warm up, or difficult child
	TC nine characteristics	Characteristics proposed by Thomas and Chess: activity (physical energy), regularity (level of predictability in biological functions), initial reaction (positive/negative response to new people/environments), adaptability (length of time needed to adjust to changes in environment), intensity (energy level of pos/neg response to a situation), mood (general tendency
		towards a happy/unhappy demeanor), distractibility (tendency to be sidetracked by other things in environment), persistence & attention span (length of time and ability to stay with a task through frustrations), and sensitivity (ease of

	Temperament measure Other temperament	disturbance by changes in the environment) Full measure of temperament (e.g., EAS temperament scale, Colorado Child Temperament Inventory, Lab-TAB, TBAQ, Temperament Assessment Battery for Children, Cloniger's Temperament and Character Inventor) Other temperament variable, not included above
Personality	Big Five Inventory	44 item inventory of the big 5 (OCEAN; John & Owens)
·	Eysenck Personality Scales IPIP	Three-trait, biological based measure (extraversion, neuroticism, psychoticism) International personality item pool (includes thousands of personality items – people will select scales and items from this)
	NEO-PI-R	Major measure of the big 5 (Costa & McCrae)
	Other personality scales	Other scales measuring personality (e.g., Cattell 16 PFQ (16 trait measure), rigidity scale, Zuckerman sensation seeking scale)
	Type A Behavior	Type A interview; A versus B behavior pattern
	Self-regulation measures	Measures of self-control, self-regulation, or impulsivity (e.g., delay of gratification tasks, discount delay task, go/no-go, Wisconsin card sort, trail making, Eysenck impulsiveness scale, Dickman impulsivity inventory, Barratt impulsiveness, EASI-III impulsivity, child behavior-checklist, Conners rating scale, self-control rating scale, California Q-set,)
	Self-control items	Single items related to self- control/ self-regulation or impulsivity (ability to control one's emotions, behavior and desires in order to obtain some reward later, and is the capacity of efficient management to the future; e.g., self-control, self discipline, self regulation, delay of gratification, delayed gratification, gratification delay, impulsive, impulsivity, impulsiveness, impulse control, emotional regulation, emotion regulation)
	Agreeableness items	Single items related to agreeableness (cooperative considerate, empathetic, generous, or kind; links in some ways to C and N. Lower order facets include antagonism, prosocial behavior, and possibly cynicism/ alienation)
	Conscientiousness items	Single items related to conscientiousness (involves being responsible, careful, attentive orderly, and planful. Lower-order facets include self-control, attention, achievement motivation, orderliness, responsibility, and conventionality)
	Extraversion items	Single items related to extraversion (includes a tendency for positive emotions, sensitivity to potential rewards, and a tendency to evoke and enjoy social attention. Lower-order facets include social inhibition (shyness), sociability, dominance, and energy/activity)
	Intellect/ Openness items	Single items related to intellect/ openness to experience (involves active imagination, aesthetic sensitivity, attentiveness to inner feelings, preference for variety, and intellectual curiosity)
	Neuroticism items	Single items related to neuroticism/ emotional stability (includes tendency to experience the world as distressful or threatening, and may include self-esteem, locus of control, and self-efficacy. Lower-order facets include anxious distress and irritable distress)
	Other personality	Other variables related to personality, not included above (Note: code into categories above, otherwise exclude, unless seemingly important to include)
Self-esteem	Global extent	In reference to the person as a whole (feelings of worth, firm beliefs)
	Particular dimension	In reference to a particular aspect (body image)
	Rosenberg scale	Rosenberg self-esteem scale (1965) – a commonly used 10 item scale
	Self-esteem scales	Self-esteem scales other than Rosenberg scale
	Single items	Single items on self-esteem (e.g., self-worth, self-regard, self-respect, self-integrity, self-love)
	Other self-esteem	Other variable related to self-esteem, not listed above (use categories above and otherwise exclude, unless seemingly important to include)
		Socio-Environmental Factors
Socio-	Census grouped occupation	Census code ratings of occupation level (7 different classifications)

economic	Composite SES	Composite measure of SES (summary of other items)
status	Education	Total attained education (Note: use summary items when possible)
	Family size	Size of family living in house, number of children/ siblings living in house
	Housing	Type of housing (e.g., apartment, house, condo, shared home)
	Investment income	Income from investments
	Occupation	Individual's occupation (listed or coded as different values)
	Parent education	Parent's total education
	Parent occupation	Parent's occupation
	Perceived SES	Person's perception of SES (e.g., enough money for needs, satisfaction with income)
	Size of home	Indicators of status based on home: size of home, number of rooms, number of cars, size of home library
	Social class	Rating of upper, middle, lower social class
	Total family income	Total family income (based on work, investments, and other income)
	Work-related income	Measures of work-related income (self or family)
	Financial Hardship	Items indicating receiving outside help, or not being able to pay for bills
	Other SES	Other SES measures not included above (Note: use categories above, otherwise exclude, unless seemingly important)
Parenting	Parenting style	Main style: authoritarian, authoritative, permissive, neglectful
-	Parent type	Single parent, grandparent raises child, foster parent, step parent
	Primary caregiver	Who takes primary care of child
	Time together	Time spent with child (e.g., family dinners, playing together)
	Education involvement	Involvement in child's education (e.g., help with homework, classroom involvement by parent)
	Homeschooling	Home schools child
	Use of punishment	Beliefs regarding punishment, verbal/ physical punishment, use of time outs
	Other parenting	Other variables related to parent, not included above (Note: use categories above, otherwise exclude, unless important
		missing item)
Caregiving	Help with ADLs	Help individual with activities of daily living (e.g., bathing, dressing, eating)
	Help with IADLs	Help individual with instrumental activities of daily living (e.g., household chores, finances, provide transportation, manage medications)
	Hours of care	Time spent providing care
	Housing situation	Housing situation for recipient (e.g., lives with provider, care facility)
	Paid position	Paid or unpaid position
	Recipient of care	Who provide care for (e.g., spouse, family member, friend, parent)
	Other caregiving	Other variables related to caregiving, not included above (Note: use categories above, otherwise exclude, unless
		important missing item)
Neighborhood	Access to healthy food	Distance to stores, availability of affordable healthy food
	Access to parks	Parks and other green spaces in neighborhood
	Crime	Amount of crime in neighborhood
	Neighborhood safety	How safe neighborhood feels
	Noise	Amount of noise in neighborhood
	Toxins	Environmental toxins (e.g., pollutants, smog, garbage, sewage, clean water)
	Walkability	Ratings of how walkable neighborhood is (e.g., availability of trails and sidewalks, easy access to stores)
	Other neighborhood	Other neighborhood items, not included above (Note: use the categories above, otherwise exclude, unless seemingly
		important)

Victimization/	Frequency of abuse	How often victimization or abuse has occurred
abuse	General experiences of	Questions on overall experiences
	victimization	
	Seeing crime	Seeing crime occur (not participating)
	Seeing others victimization	Seeing others victimized or abused
	Source of abuse	Who victimized or abused participant
	Type of abuse	Types of abuse noted (physical, emotional, sexual)
	Other victimization	Other victimization items not included above (use categories above and exclude others, unless seemingly important)
Life events	Checklist of life events	Scales with a checklist or other lists of life events (e.g., social readjustment rating scale)
	Rated events	Life events and difficulty scale or similar, which look at individual events in detail and raters indicate the stressfulness of
		the situation
	Children	Number of children
	Divorce	Participant's divorce or separation
	Divorce of parents	Divorce by parents in childhood
	Graduation	Year of graduation; graduation status
	Loss of child	Loss of child
	Loss of family member	Loss of family member
	Loss of friend	Loss of friends
	Marriage	Marital status
	Natural disaster	Occurrence of natural disasters
	Parental death	Mother, father, or primary caretaker death
	Spouse death / widowhood	Spouse death or note of widowhood status
	Unemployment	Unemployment, losing job
	Work environment	Ratings of work environment (supportive, stressful, amount of control)
	Other life events	Other life event items not included above (use categories above, otherwise exclude, unless seemingly important)
Environment	Work: psychological	Psychological aspects of the work environment (e.g., level of control, level of demand)
	Work: physical	Physical aspects of the work environment (Note: we are not really interested in this, so exclude, unless there are items
		that are meaningful for building stress or well-being)
	Work: relationships	Relational aspects of the work environment (e.g., how well get along with co-workers, tension at work)
	School: psychological	Psychological aspects of the school environment (Note: code first for other categories listed above. If seems relevant as a
		stressor or to build well-being, then include, otherwise exclude)
	School: physical	Physical aspects of the school environment (e.g., size of school, urban vs. rural, # children in class)
	Home: psychological	Psychological aspects of the school environment (Note: see if this fits into relationship category. Otherwise, exclude,
		unless is meaningful)
	Home: physical	Physical aspects of the home environment
	Other environment	Other environment items not included above (use categories above and exclude others, unless seemingly important)

PART 5: ADDITIONAL CODING NOTES

- · Parent connectedness: usually includes variables that have assess someone's opinion or attitude towards parent relationships
- Parent Time together: includes variables examining activities or events (and the frequency) of which parent and child engage in together
- Sensory ear (hearing experiences): included other reports of these experiences, because some children in studies are too young to report.
- Healthcare utilization: Some questions that ask specifically about going to a "ear doctor", this was included in healthcare utilization and not under the physical domain itself.
- Some questions ask about tiredness or being worn out in the depression/ sadness context. These items will be placed under both negative affect and general pain/fatigue
- Depression and negative affect have similarities. However, for items under depression we will include those that tend to be in depression scales.
- Other psychopathology: also includes question on whether received any psychological, psychiatric, social worker help + personality disorder scales
- Learning enjoyment vs. interest distinction:
 - o Learning enjoyment specifically about attitude and feelings towards school and certain subjects
 - o Interest: interest towards diverse things, including boredom in class.
- How does he feel about school different moods: put under environment school (tired, stimulated, anxious, frightened)

Supplement 2 - Description of Studies in the TADPOHLS Database

STUDY LISTING

Abbr [*]	Study Name	Page
Studies with	n data available	
AHCE	Adolescent Health Care Evaluation Study	1
ESDS	British Birth Cohort Study – 1958 cohort	1
ESD2	British Birth Cohort Study – 1970 cohort	1
FTP	Family Transitions Project	2
HLSU	Harlem Longitudinal Study of Urban Black Youth, 1968-1994	2
NLSA	National Longitudinal Study of Adolescent Health	3
NLS2	National Longitudinal Survey of Youth – 1997 Cohort	3
NLSC	National Longitudinal Survey of Youth - NLSY79 child & young adult	3
NLSY	National Longitudinal Survey of Youth – 1979 Cohort	3
NSHD	British Birth Cohort Study – 1946 cohort	1
TBSS	The Beginning School Study	4
TLCS	Terman Life Cycle Study	4
WCFA	Welfare, Children, and Families: A Three City Study	4
YTP	Youth in Transition Project	5

^{*} *Note*. Abbr = our abbreviation used in paper and tables

STUDY DESCRIPTIONS

Study name:	Adolescent Health Care Evaluation Study, 1984-1991 (AHCE)
PI:	Felton J. Earls
Website:	http://dvn.iq.harvard.edu/dvn/dv/mra/faces/study/StudyPage.xhtml?globalId=hdl:190 2.1/00915
Description:	The Adolescent Health Care Evaluation Study began as an assessment of the efficacy of a healthcare improvement program that targeted high-risk adolescents (Felton, 1992). Between the years of 1984 and 1991, adolescents attending clinics disseminating this program participated in four waves of structured comprehensive interviews. Specific to the third and fourth wave, special attention was given to understanding how HIV risk changes as adolescents transition into adults.
Study name:	British Cohort Studies:
	National Survey of Health and Development (1946 British Birth Cohort Study) (NSHD)
	1958 British National Child Development Study: 1958 Birth Cohort (NCDS) (ESDS)
	1970 British Cohort Study (ESD2)
PI:	Diana Kuh

Website: http://www.nshd.mrc.ac.uk/default.aspx

http://www.esds.ac.uk/longitudinal/access/ncds/133004.asp

http://www.esds.ac.uk/longitudinal/access/bcs70/133229.asp

Description: The first British Birth Cohort study, the National Survey of Health and Development

(NSHD) started in 1946 (Kuh, Pierce, & Adams, 2011). Over 5,000 children born in the UK during March of that year were included in the initial sample. Since then, these individuals have had the opportunity to participate in 23 follow-ups spanning the course of 66 years. The next birth cohort, The National Child Development Study (NCDS) started in 1958, and initially included over 17,000 children (Power & Elliot, 2006). This study followed children from birth to age 51 over a course of nine follow-up sessions. Data are available through the Centre of Longitudinal Studies (CLS). The third birth cohort, The 1970 British Cohort Study, also followed approximately 17,000 individuals over nine measurement occasions (Elliott & Shepherd, 2006). Collectively, the broad goal of these studies was to understand development across the lifespan.

Study name: Family Transitions Project (Iowa Youth and Families Project, 1989-1992) (FTP)

PI: Rand Conger and the Carolina Population Center

Website: https://transitionsproject.ucdavis.edu

Description: Rand Conger from Iowa State University began the Family Transitions Project in

1989 to investigate the impact of the farm crisis of 1970 (Wickrama, Conger, & Wallace, 2003). In one of the most intensive studies of rural families, researchers collected data from 451 two-parent families from eight north central counties of Iowa. The families were chosen on the criteria that they had two children, one who was attending 7th grade in 1989. The original sample was measured annually for 4 years and subsequently four more times until 2000. In 1991 a sample of 107 single-parent families were added to the sample, furthermore, 900 grandparents were also added to the study in 1994. Over 500 families participated up until 2000 and gave

valuable insight into resilience and health after crisis.

Study name: Harlem Longitudinal Study of Urban Black Youth, 1968-1994 (HLSU)

PI: Ann F. Brunswick

Website: http://dvn.iq.harvard.edu/dvn/dv/mra/faces/study/StudyPage.xhtml?globalId=hdl:190

2.1/00845

Description: In 1968 Ann Brunswick at Columbia University started a longitudinal study

following 668 African-American participants ages 12-18 who resided in central Harlem, NY (Brunswick & Messeri, 1986). The participants were measured on health status, drug use, education, family relationships and socio-environmental

factors. During the 26 years the participants were followed there were five

measurement periods. In 1989 follow-up the focus of the study shifted from drug use to HIV education, awareness and exposure. The final waves of the study included blood samples in addition to an array of physical and mental health questionnaires.

Study name: National Longitudinal Study of Adolescent Health (Add Health) (NLSA)

PI: J. Richard Udry, Kathleen Mullan Harris

Website: http://www.cpc.unc.edu/projects/addhealth

Description: The United States started an initiative lead by J. Richard Udry, Kathleen Mullan

Harris, and a team of co-investigators, to follow a nationally representative sample of students in 1994. Over 27,000 students were recruited as 7-12th graders, and subsequently followed-up during four different occasions, ending when the

participants were between the ages of 24-32 (Udry, 2003). During these follow-up inhome interviews, data were collected on physical health, well-being, ill-being, and

socio-environmental factors.

Study name: National Longitudinal Surveys of Youth:

1979 Cohort (NLSY)

National Longitudinal Survey of Youth 1997 (NLSY97), part of the National

Longitudinal Surveys (NLS) program (NLS2)

National Longitudinal Survey of Youth - NLSY79 child and young adult (NLSC)

PI: U.S. Bureau of Labor Statistics

Website: http://www.bls.gov/nls/nlsy79.htm

http://www.bls.gov/nls/nlsy79ch.htm

http://www.bls.gov/nls/nlsy97.htm

Description: The original cohort of the National Longitudinal Survey of Youth was a nationally

representative sample of 12,686 American men and women who were between the ages of 14-22 in 1979 (the NLSY79,1994). These participants were surveyed annually for the first 15 years of the study, and now are surveyed at biennial intervals. In all studies, between the years of 1979-2011, 24 data collections occurred. In 1997 a second nationally representative cohort was formed including approximately 9,000 adolescents between the ages of 12-16 (the NLSY97, 1997). Between 1997-2011, 14 rounds of data collection occurred. The primary focus for these cohorts was to understand labor force behaviors, however other relevant measures such as education, family, and health were also included. In 1986, a new cohort was formed on a continual basis as the women from the 1979 cohort began to have children (Children of NLSY79, 2002). For these children, data are collected biennially. Similar to the '79 and '97 cohorts, these children complete measures

related to experiences with their family, education, and health.

The '79 cohort data are public use through the year of 2008. The '97 cohort data are public use through the year of 2010. The child cohort data are publicly available through 2008. For each cohort, additional data will be released in Spring or Summer

2012.

Study name: The Beginning School Study (BSS) (TBSS)

PI: Karl L. Alexander, Doris R. Entwisle

Website: http://dvn.iq.harvard.edu/dvn/dv/mra/faces/study/StudyPage.xhtml?globalId=hdl:190

2.1/01293

Description: Karl Alexander and Doris Entwisle began the study in 1982 with the intention of

measuring Baltimore School children's personal and academic development (Alexander, Entwisle, & Olson, 1990). More specifically, the study was interested in what factors lead impoverished students to overcome their life circumstances and succeed. In order to collect this information, 838 students were randomly chosen from 1st grade classrooms and given a variety of measures, including parent and teacher reports. Over the next 20 years participants were measured 8 more times; participants data provided valuable insight to academic achievement, self-esteem,

socio-economical influences, family structure, and resilience.

Study name: Terman Life Cycle Study (TLCS)

PI: Lewis S. Terman (original; maintained by numerous others)

Website: http://dvn.iq.harvard.edu/dvn/dv/mra/faces/study/StudyPage.xhtml?globalId=hdl:190

2.1/00882&studyListingIndex=1 deb6f3344da1d0616905d449531f

Description: Louis Terman began the Terman Life Cycle Study in 1922 with 1,470 children from

California (Terman, Sears, & Cronbach, 1990). Participants were selected based on having an IQ of 135 or above. Although the study was founded to understand gifted children, it developed into a study tracking lifetime development. Besides cognitive

ability, the study measured achievement, educational background, health,

environment, and life circumstances. These measurements occurred every 5-years until 1986. In addition to measures obtained from participants, occasionally parents,

spouses, siblings and teachers were included in data collection. Interested researchers must fill out an application to request access to these data from the

Murray Archives.

Study name: Welfare, Children, and Families: A Three City Study (WCFA)

PI: Ronald J. Angel, Linda M Burton, P. Lindsay Chase-Lansdale, Andrew J. Cherlin,

Robert A. Moffitt, William Julius Wilson

Website: www.jhu.edu/~welfare

Description: The Welfare, Children and Families study collected data from three major U.S.

cities: San Francisco, Boston and Chicago (Winston, Angel, & Burton, 1999). The study began in 1999 with over 2,400 children and their families. The study followed children ranging from ages 0-14 all the way until 2006 when the participants were 5-20 years old. Three waves of data were collected measuring well-being in low income families. More specifically, the authors wanted to investigate strategies low-income families had used in response to the post-welfare era. Each wave consisted of an interview with the child's primary caregiver, who was often different at each measurement period. This data allows for essential insight into the welfare system

and its affects on children's development into adulthood.

Study name: Youth in Transition Project, 1966-1974 (YTP)

PI: Jerald G. Bachman

Website: https://www.icpsr.umich.edu/icpsrweb/ICPSR/studies/3505?paging.startRow=3426

Description: Beginning in fall 1966, the Youth in Transition Project was a five-wave longitudinal

study focused on the effects of different high school environments on adolescent boys. The study was a panel design, beginning with a cross-section of 10th grade boys from across the United States. Panel members were followed for the next four years. Data include affective states, self-concepts, values, attitudes, plans, and behaviors.

Most of the main dimensions were repeated at each occasion.

Appendix 3
Items used in illustrative study

Question	Domain
British Birth Cohort Study: 1958 Cohort (ESDS)	
At the ends of each line on the scale below are adjectives which could describe a child's personality or behavior, Please rate the study child of each of these scales: Lazy/Hard-working	Perseverance
I get on with class work	Perseverance
I never take work seriously	Perseverance
Have you suffered from or been told you had heart trouble in the last twelve months?	Heart conditions
These questions are concerned with how you are feeling generally. Does your heart often race like mad?	Heart symptoms
These questions are concerned with how you are feeling generally. Do you feel tired most of the time?	Fatigue
I'd like to ask you a few questions about your health. Firstly, how would you describe your health generally? Would you say it is	General health
Family Transition Project (FTP)	
Compared to other kids, how well does (target) child complete school work or chores	Perseverance
Even when there are other interesting things to do, I keep up with my schoolwork	Perseverance
He or she is a hard worker	Perseverance
He or she is a productive person who always gets the job done	Perseverance
How well do you think you keep up with your school work	Perseverance
How well do you think your child (target) keeps up with his or her classes	Perseverance
I try hard at school	Perseverance
I usually finish my homework	Perseverance
Too often, when things go wrong, he or she gets discouraged and feels like giving up	Perseverance
Indicate how much of the time (during the past month) you: felt that the future looks hopeful and promising	Optimism
What happens to me in the future mostly depends on me	Optimism
I can do just about anything I really set my mind to	Optimism
I am able to do things as well as most other people	Optimism
Has living been a wonderful adventure for you	Optimism
There is little I can do to change many of the important things in my life	Optimism
I often feel helpless in dealing with the problems of life	Optimism
I have little control over the things that happen to me	Optimism
There is really no way I can solve some of the problems I have	Optimism
I have little control over the bad things that happen to me	Optimism
The really good things that happen to me are mostly good luck	Optimism
Feeling hopeless about the future	Optimism
During the past 12 months, have you learned of any health conditions or diseases that you have that significantly increase your chances of early death?	Heart conditions
Have you had problems withIrregular heart beat	Heart conditions
Have you had problems withChest pain	Heart conditions
Trave jou had problems withonest pulli	Truit Conditions

	Domain
Have you had problems withhardening of the arteries	Heart conditions
Have you had problems withHeart failure	Heart conditions
Have you had problems withBlood clot in vessels	Heart conditions
Have you had problems withHeart attack	Heart conditions
These questions are about how you feel and how things have been with you during the past four weeks. For each question, please give the one answer that comes closest to the way you have been feeling. How much of the time during the past four weeks <u>Did you feel full of pep?</u>	Energy
These questions are about how you feel and how things have been with you during the past four weeks. For each question, please give the one answer that comes closest to the way you have been feeling. How much of the time during the past four weeks <u>Did you have a lot of energy?</u>	Energy
How much have you felt or experienced each of the following during the past week. How much have you <u>Felt like you had a lot of energy?</u>	Energy
During the past week, including today, how much were you distressed or bothered by <u>Feeling low in energy or slowed down</u>	Fatigue
These questions are about how you feel and how things have been with you during the past four weeks. For each question, please give the one answer that comes closest to the way you have been feeling. How much of the time during the past four weeks <u>Did you feel worn out?</u>	Fatigue
These questions are about how you feel and how things have been with you during the past four weeks. For each question, please give the one answer that comes closest to the way you have been feeling. How much of the time during the past four weeks <u>Did you feel tired?</u>	Fatigue
How would you rate your overall physical health?	General health
ational Longitudinal Study of Adolescent Health (NLSA)	
In general, how hard do you try to do your school work well	Perseverance
During the 1994-95 school year, how often do you have trouble: Getting homework done	Perseverance
	Perseverance
Since school started this year, how often have you had trouble: Getting homework done	
homework done When you get what you want, it's usually because you worked hard for it	Perseverance
homework done When you get what you want, it's usually because you worked hard for it You felt hopeful about the future	Perseverance Optimism
homework done When you get what you want, it's usually because you worked hard for it	Perseverance
homework done When you get what you want, it's usually because you worked hard for it You felt hopeful about the future You thought your life had been a failure Has a doctor, nurse or other health care provider ever told you that you have or	Perseverance Optimism Optimism
homework done When you get what you want, it's usually because you worked hard for it You felt hopeful about the future You thought your life had been a failure Has a doctor, nurse or other health care provider ever told you that you have or had: heart disease Has a doctor ever told you that {fill in child's name} has any of these conditions:	Perseverance Optimism
homework done When you get what you want, it's usually because you worked hard for it You felt hopeful about the future You thought your life had been a failure Has a doctor, nurse or other health care provider ever told you that you have or had: heart disease Has a doctor ever told you that {fill in child's name} has any of these conditions: a chronic heart condition	Perseverance Optimism Optimism Heart condition
homework done When you get what you want, it's usually because you worked hard for it You felt hopeful about the future You thought your life had been a failure Has a doctor, nurse or other health care provider ever told you that you have or had: heart disease Has a doctor ever told you that {fill in child's name} has any of these conditions: a chronic heart condition During the past 7 days, you felt that you were too tired to do things	Perseverance Optimism Optimism Heart condition
homework done When you get what you want, it's usually because you worked hard for it You felt hopeful about the future You thought your life had been a failure Has a doctor, nurse or other health care provider ever told you that you have or had: heart disease Has a doctor ever told you that {fill in child's name} has any of these conditions: a chronic heart condition	Perseverance Optimism Optimism Heart condition Heart condition
homework done When you get what you want, it's usually because you worked hard for it You felt hopeful about the future You thought your life had been a failure Has a doctor, nurse or other health care provider ever told you that you have or had: heart disease Has a doctor ever told you that {fill in child's name} has any of these conditions: a chronic heart condition During the past 7 days, you felt that you were too tired to do things In general, how is your health? (self-report)	Perseverance Optimism Optimism Heart condition Heart condition Fatigue General health
homework done When you get what you want, it's usually because you worked hard for it You felt hopeful about the future You thought your life had been a failure Has a doctor, nurse or other health care provider ever told you that you have or had: heart disease Has a doctor ever told you that {fill in child's name} has any of these conditions: a chronic heart condition During the past 7 days, you felt that you were too tired to do things In general, how is your health? (self-report) In general, how good is {fill child's name}'s health? (parent report)	Perseverance Optimism Optimism Heart condition Heart condition Fatigue General health

Question	Domain
After each statement, please indicate how much you agree	Optimism
I'm always optimistic about my future.	
After each statement, please indicate how much you agree	Optimism
I rarely count on good things happening to me.	
After each statement, please indicate how much you agree	Optimism
I hardly ever expect things to go my way	
Thinking only of the past 4 weeksdid you have a lot of energy?	Energy
In general, how is your health?	General health
National Longitudinal Survey of Youth - 1979 Child and Young Adult (NLSC)	
There's no way I can solve the problems I have	Optimism
Sometimes I feel I am being pushed around in life	Optimism
I have little control over what happens to me	Optimism
I can do just about anything I really set my mind to	Optimism
I often feel hopeless in dealing with the problems of life	Optimism
What happens to me in the future mostly depends on me	Optimism
There is little I can do to change important things in my life	Optimism
Health conditions or limitations - heart trouble	Heart conditions
How often in the past four weeks have you had a lot of energy?	Energy
Description of present health	General health
Terman Life Cycle Study (TLCS)	
Desire to excel	Perseverance
Will power and perseverance	Perseverance
Incidence of heart problems	Heart conditions
Adult self-rated health: 1940	General health

Note. To harmonize data across studies, perseverance and optimism were standardized and averaged to create composite scores. Health outcomes were combined and dichotomized (heart conditions: 0 = no conditions, 1 = one or more conditions; energy, self-rated health, fatigue: 0 = low, 1 = high).