

1 Supplementary Tables

Supplementary Table 1. Guidelines for chronic diseases management in China

Name	Time released	Affiliation	
Guidelines for Diagnosis and Treatment of Primary Liver Cancer in China	2022	National Health Commission of the People's Republic of China	
Guidelines for Clinical Diagnosis and Treatment of Lung cancer in China	2022	Chinese Medical Association	
Guidelines for the Diagnosis and Management of Chronic Obstructive Pulmonary Disease in China	2021	Chinese Medical Association	
Guidelines for Stroke Prevention and Treatment in China	2021	National Health Commission of the People's Republic of China	
Precautionary Guidelines for Cardiovascular Diseases in China	2017	Chinese Medical Association	

Supplementary Table 2. Exemplars of excellent international cohort studies and characteristic factors

Cohort name	Regions	Enroll start	Enrolled	Age of participants	Questionnaire and/or interview	Physical measures	Bio specimens	Genomics data	Proteomics data	Metabolomics data	Environmental data	Data sharing	Years of follow up	Main research directions based on disease	References
UK Biobank	England, Scotland, Wales	2006	500,000	40-69	YES	YES	YES	YES	YES	YES	YES	YES	/	Cancer, cardiovascular disease, stroke, diabetes, and dementia, etc.	[10]
Framingham Heart Study (Original cohort)		1948	5,209	28-74	YES	YES	YES	<u>NO</u>	<u>NO</u>	<u>NO</u>	YES	YES	65		
Framingham Heart Study (Offspring cohort)		1971	5,124	5-70	YES	YES	YES	YES	YES	YES	YES	YES	43		
Framingham Heart Study (Omni Cohort)	USA	1994	507	27-78	YES	YES	YES	<u>NO</u>	<u>NO</u>	<u>NO</u>	YES	YES	≈15-20	Cardiovascular	[11-13]
Framingham Heart Study (Third Generation cohort)	USA	2002	4,095	19-72	YES	YES	YES	YES	YES	YES	YES	YES	≈10	disease	[11-13]
Framingham Heart Study (New offspring Spouse cohort)		2003	103	47-85	YES	YES	YES	<u>NO</u>	<u>NO</u>	<u>NO</u>	YES	YES	≈10		
Framingham Heart Study (Second generation omni cohort)		2003	410	20-80	YES	YES	YES	<u>NO</u>	<u>NO</u>	<u>NO</u>	YES	YES	≈10		
Nurses' Health Study (NHS I)	USA	1976	121700 (female)	30-55	YES	<u>NO</u>	YES	YES	YES	YES	YES	YES	Lifetime	Cancer, cardiovascular disease, postmenopausal	[14-16]

Nurses' Health Study (NHS II)		1989	116000 (female)	25-42	YES	<u>NO</u>	YES	YES	YES	YES	YES	YES	Lifetime	obesity, healthy aging, and psychosocial issues of aging, etc.	
Nurses' Health Study (NHS III)	USA, Canada	2010 (be rolling)	100,000 (female and male)	20-46	YES	<u>NO</u>	YES	YES	YES	YES	YES	YES	Lifetime		
Canadian Longitudinal Study on Aging	Canada	2010	50,000	45-85	YES	YES	YES	YES	YES	YES	YES	YES	>18	Healthy aging	[17]
Lifelines	Netherlands	2006	167,000	0-65+	YES	YES	YES	YES	<u>NO</u>	<u>NO</u>	YES	YES	>30	Healthy aging	[18-20]
European Prospective Investigation into Cancer and Nutrition study	France, Germany, Greece, Italy, Netherlands, Spain, UK, Sweden, Denmark, and Norway	1992	521,000	35-70 (mostly)	YES	YES	YES	YES	YES	YES	YES	YES	≈15	Cancer, cardiovascular disease, type 2 diabetes, mortality, and healthy ageing	[21-22]
German National Cohort	Germany	2014	200,000	20-69	YES	YES	YES	YES	YES	YES	YES	YES	25-30	Cancer, cardiovascular disease, diabetes, nervous system, rheumatic, or degrading diseases of the musculoskeletal system	[23]

Japan Public Health Center- based Prospective Study	Japan	1990	140,420	40-69	YES	YES	YES	YES	/	/	YES	YES	Lifetime	Cancer, myocardial infarction, stroke, etc.	[24]
Korean Genome and Epidemiology Study (Ansan and Ansung study)		2001	10,030	40-69	YES	YES	YES	YES	<u>NO</u>	<u>NO</u>	YES	YES	17		
Korean Genome and Epidemiology Study (cardiovascular disease association study)	Korea	2004	28,338	>40	YES	YES	YES	YES	<u>NO</u>	<u>NO</u>	YES	YES	10		
Korean Genome and Epidemiology Study (health examinees study)		2004	173,343	>40	YES	YES	YES	YES	<u>NO</u>	<u>NO</u>	YES	YES	10	Cardiovascular disease, type 2 diabetes, hypertension, metabolic	[25]
Korean Genome and Epidemiology Study (twin and family study)		2005	3,202	/	YES	YES	YES	YES	<u>NO</u>	<u>NO</u>	YES	YES	7	syndrome, and obesity	
Korean Genome and Epidemiology Study (emigrant study)	Japan, China	2005	3,563	/	YES	YES	YES	YES	<u>NO</u>	<u>NO</u>	YES	YES	6		
Korean Genome and Epidemiology Study (immigrant study)	Korea, Vietnam, Cambodia	2006	11,245	/	YES	YES	YES	YES	<u>NO</u>	<u>NO</u>	YES	YES	3		

${\bf Supplementary\ Table\ 3.\ Question naire\ used\ in\ baseline\ survey}$

Part 1: Basic Information

No.	Item	Response option	Your answer
		1- Elementary school and below	
		2- Junior high school	
A1	Degree of Education	3- Senior high school or Vocational high school	
		4- Junior or undergraduate college	
		5- Master degree or above	
		1- Married or cohabiting	
		2- Unmarried	
A2	Marital Status	3- Divorced	
		4- Separated	
		5- Widowed	
		1- Uninsured	
		2- Basic medical insurance system for urban workers	
	Participated Medical insurance	3- Basic medical insurance system for non-working urban	
		residents	
A3		4- New type of rural cooperative medical care system	
		5- Cooperative medical insurance for urban and rural	
		residents	
		6- Commercial insurance	
		7- Unclear	
		8- Other insurance	
		 Yes, and resided for more than one year 	
A4	Is it equal or more than five years since your house was built?	2- Yes, and resided for less than one year	
		3- No	
. ~	XX 1.0	1- Yes	
A5	Were you born prematurely?	2- No	
		3- Unclear	
		1- No	
A6	Are you twins or multiples?	2- Identical twins	
		3- Fraternal twins	
		4- Multiple births	

A7	Is there any consanguineous marriage among your close relatives within four generations (you, your parents, your grandparents, and your great-grandparents)?	1- Yes 2- No 3- Unclear
A8	Did your biological parents raise you?	1- Yes 2- No
A9	Did your parents have any of the following negative events before you turned 17?	1- Divorced 2- Pass away 3- Alcoholism 4- Drug 5- Traffic accident 6- Crime 7- Lay ill in bed 8- None

Part 2: Life-Style Behavior

No.	Item	Response option	Your answer
B1	Have you been screened for COVID-19?	1- Yes 2- No	
B2	Career	1- Principal of state agencies/party-masses/enterprise/project units 2- Professional/technical personnel 3- Clerk 4- Commercial/service personnel 5- Production personnel of agriculture/forestry/animal husbandry/fishery/water conservancy industry 6- Production and transportation equipment operators/related personnel 7- Soldier 8- Student (Jump to B11) 9- Laid-off/retired personnel (Jump to B11) 10- Unemployed (Jump to B11) 11- Other(s)	

В3	What kind of transportation do you take when you go out?	 Public traffic Private Cars Motorcycle or electric cars Bicycle Pedestrian Telecommuting (Jump to B5) 	
B4	How far are you from the company?	<u> </u>	km
B5	How long do you work per week on average?		<u>d</u> ay
В6	How long do you work per day on average?		h
В7	How about the work intensity?	1- Low 2- Moderate 3- High	
В8	Main types of work	1- Mental labor 2- Manual work 3- Both	
В9	Do you spend long periods of time sitting/standing at daily work?	1- Long-term standing 2- Long-term sitting/sedentary, for h 3- Neither 4- Both	
B10	How long is your sedentary time in free hours every weekday on average?		h
B11	How long is your sedentary time on every rest day on average?		h
B12	How did you go upstairs/downstairs?	 1- Walking 2- Elevator 3- Combination of walking and elevator 4- No need to go upstairs/downstairs 	

B13	In the past 6 months, what physical activity have you participated in?	 None (Jump to B16) Jogging Walking Stroll Gymnasium Yoga Swimming Aerobics Ball game Bicycle ride 	
B14	In the past 6 months, how many times a week have you participated in the above exercises?	11- Other exercise(s) 1- Less than once a week 2- Once or twice a week 3- 3 to 5 times a week 4- 6 or more times a week	
B15	How long does each exercise last on average?		Number of minutes
B16	How often do you cook at home?	 1- Every day/Nearly every day 2- Not at all/Seldom (Jump to B19) 3times a week on average 	
B17	What is the main fuel used for cooking?	1- Gas 2- Electricity 3- Coal 4- Firewood 5- Other fuel(s)	
B18	How often do you use a fume extractor for cooking at home?	1- Always 2- Seldom 3- Never	
B19	What was your smoking status in the last six months?	1- Smoking 2- Occasional smoking 3- Not smoking (Jump to B24) 4- Quit smoking (Jump to B22)	
B20	When did you start smoking?	<u> </u>	(age)
B21	How many cigarettes did you smoke on average per day in the last week?	1(quantity of cigarettes) 2- Zero	

B22	When did you quit smoking?		(age)
B23	The main reason for quitting smoking?	 1- Morbid or sub-health state 2- Disease prevention 3- Economic aspects 4- Other reason(s) 	
B24	Are you exposed to passive smoking?	 1- No (Jump to B27) 2- 1 or 2 times per week 3- 3 to 5 times per week 4- 5 or more times per week 	
B25	Average time of the exposure to passive smoking	1- 15-29 min 2- 30-59 min 3- ≥ 60 min	
B26	Do family members or roommates living with you smoke?	 1- No 2- Parents 3- Grandparents 4- Spouse 5- Offspring 6- Roommate 7- Other(s) 	
B27	Did you ever drink alcohol?	1- Yes 2- No (Jump to B33) 3- Quit (Jump to B32)	
B28	When did you start drinking?		(age)
	The following qu	stions are about the past year	
B29	How often do you have a drink containing alcohol?	 1- Monthly or less 2- 2 to 4 times a month 3- 2 to 3 times a week 4- 4 or more times a week 	
B30	How many drinks containing alcohol do you have on a typical day when you are drinking?	1- 1 or 2 2- 3 or 4 3- 5 or 6 4- 7 or 9 5- 10 or more	

B31	How often do you have six or more drinks on one occasion?	 Less than monthly Monthly Weekly Daily or almost daily 	
B32	When did you quit drinking?		(age)
	Pittsburgh S	Sleep Quality Index (PSQI)	
B33	During the past month, when have you usually gone to bed at night?		Usual bedtime
B34	During the past month, how long (in minutes) has it usually take you to fall asleep each night?	;	Number of Minutes
B35	During the past month, when have you usually gotten up in the morning?		Usual getting up time
B36	During the past month, how many hours of actual sleep did you get at night (This may be different than the number of hours you spend in bed)?		Hours of sleep per night
	During the past month, how often	en have you had trouble sleeping because you	
B37	Cannot get to sleep within 30 minutes	 1- Not during the last month 2- Less than once a week 3- Once or twice a week 4- Three or more times a week 	
B38	Wake up in the middle of the night or early morning	 1- Not during the last month 2- Less than once a week 3- Once or twice a week 4- Three or more times a week 	
B39	Have to get up to use the bathroom	 Not during the last month Less than once a week Once or twice a week Three or more times a week 	

		1- Not during the last month
B40	Cannot breathe comfortably	2- Less than once a week
	•	3- Once or twice a week
		4- Three or more times a week
		1- Not during the last month
B41	Cough or snore loudly	2- Less than once a week
	cough of bhoto founty	3- Once or twice a week
		4- Three or more times a week
		1- Not during the last month
B42	Feel too cold	2- Less than once a week
		3- Once or twice a week
		4- Three or more times a week
		1- Not during the last month
B43	Feel too hot	2- Less than once a week
D 13	1001 100 1100	3- Once or twice a week
		4- Three or more times a week
	Had bad dreams	1- Not during the last month
B44		2- Less than once a week
БП		3- Once or twice a week
		4- Three or more times a week
	Have pain	1- Not during the last month
B45		2- Less than once a week
D 13		3- Once or twice a week
		4- Three or more times a week
		1- Not during the last month
B46	Other reason(s), please describe	2- Less than once a week
D 10	other reason(s), prease desertibe	3- Once or twice a week
		4- Three or more times a week
		1- Superior/Very good
B47	During the past month, how would you rate your sleep quality overall?	2- General/Fairly good
D 17		3- Inferior/Fairly bad
		4- Poor/Very bad
		1- Not during the last month
B48	During the past month, how often have you taken medicine (prescribed or "over the counter") to help you sleep?	2- Less than once a week
210		3- Once or twice a week
		4- Three or more times a week
	Design the next would be a first bound to the termination	1- Not during the last month
D40	During the past month, how often have you had trouble staying awake while driving, eating meals, or engaging in social activity?	2- Less than once a week
B49		3- Once or twice a week
		4- Three or more times a week
		Times of more times a week

you to keep up enough enthusiasm to get things done? 3- Once or twice a week 4- Three or more times a week		
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Part 3: Sign and Symptom

No.	Item	Response option	Your answer
C1	During the two months, has your weight dropped significantly?	1- Yes 2- No (Jump to C3)	
C2	Weight loss		kg
C3	Do you have the following symptoms?	 1- Pant 2- Dyspnea 3- Hoarseness 4- Dysphagia 5- Chest tightness 6- None 	
C4	Do you have the history of occupational exposure to radon, asbestos, arsenic, dust and lampblack?	1- Radon, for	
C5	Have you been diagnosed with intrathoracic sarcoidosis by your doctor before?	1- Yes, pulmonary nodules were first detected at2- No (Jump to C7)	
C6	Pulmonary nodules were first detected by	Health examination Clinical examination	
C7	Have you been diagnosed COPD by your doctor?	1- Yes,(age at diagnosis) 2- No 3- Unclear	
C8	Do you currently take more than five medications orally?	1- Yes 2- No	

C9	Do you have frequent dental ulcers?	1- Yes 2- No
C10	Are you allergic to sunlight?	1- Yes 2- No
C11	Does your skin appear pale and bruised after exposure to cold?	1- Yes 2- No
C12	Do you have joint pain?	1- No 2- Distal interphalangeal joint 3- Proximal interphalangeal joint 4- Metacarpophalangeal joint 5- Wrist joints 6- Elbow joint 7- Shoulder joint 8- Temporo-mandibular Joint 9- Hip joint 10- Knee joint 11- Ankle joint 12- Metatarsophalangeal joint 13- Sternoclavicular joint 14- Sacroiliac joint 15- Calcaneal-talar joint 16- Other(s)
C13	During the past month, have you had repetitive knee joint pain?	1- Yes 2- No
C14	Does the knee joint produce bone crepitus when moving?	1- Yes 2- No
C15	Have you ever had a knee injury?	1- Yes 2- No
C16	During the past year, have you repeatedly experienced one of the following situations?	 1- No 2- Joint pain appeared in both hands, which is worst in the morning with stiffness (≥ 30 min) and gets better with activity 3- Morning stiffness (<30 min) in knee
C17	Have you been diagnosed with migraine by your doctor before?	1- Yes 2- No

C18	Do you had headaches when you're young (at age of 10-50), and which limit your ability to work, study or enjoy life?	1- Yes 2- No
C19	Do you feel nauseated or sick to your stomach with headaches?	1- Yes 2- No
C20	Does the light bother you?	1- Yes 2- No
C21	Have you been diagnosed with Parkinson's disease (PD) by your doctor?	1- Yes,(age at diagnosis),(hospital) 2- No (Jump to C23)
C22	What type of medications are you taking currently?	 1- No-drug treatment 2- Unclear 3- Madopar 4- Pramipexole 5- Entacapone 6- Trihexyphenidyl 7- Amantadine 8- Sinemet 9- Trastal 10- Eldepryl 11- Rasagiline Mesylate Tablets 12- Vitamin B6
C23	Have you been diagnosed with cerebral infarction by your doctor?	1- Yes,(age at diagnosis),(hospital) 2- No (Jump to C25)
C24	What type of medications are you taking currently?	 1- No-drug treatment 2- Unclear 3- Aspirin 4- Clopidogrel 5- Warfarin 6- Pradaxa 7- Rivaroxaban 8- Atorvastatin 9- Simvastatin
C25	Have you been diagnosed with cerebral hemorrhage by your doctor?	1- Yes,(age at diagnosis),(hospital) 2- No (Jump to C27)

C26	What type of medications are you taking currently?	 1- No-drug treatment 2- Unclear 3- Aspirin 4- Clopidogrel 5- Warfarin 6- Pradaxa 7- Rivaroxaban 8- Atorvastatin 9- Simvastatin
C27	Have you been diagnosed with epilepsy by your doctor?	1- Yes,(age at diagnosis),(hospital) 2- No (Jump to C29)
C28	What type of medications are you taking currently?	 1- No-drug treatment 2- Unclear 3- Sodium valproate 4- Levetiracetam 5- Topiramate 6- Carbamazepine 7- Oxcarbazepine 8- Lamotrigine 9- Phenytoin sodium 10- Phenobarbital 11- Clonazepam 12- Lacosamide
C29	Have you been diagnosed with other neurological disorders by your doctor?	1- Yes,(age at diagnosis),(hospital) 2- No (Jump to C31)
C30	Have you taken any medicine?	1- Yes,(drug name) 2- No
C31	Have you been diagnosed with lithiasis by your doctor?	1- No 2- Unclear 3- Lithiasis in urinary system 4- Hepatobiliary lithiasis 5- Other(s)
C32	During the past year, have you ever leaked urine involuntarily?	1- Yes 2- No 3- Refuse to answer 4- Unclear

		1- Yes,times per night
C33	How many times do you get up to urinate at night from falling	2- No
	asleep to waking up?	3- Refuse to answer
		4- Unclear
		1- Yes
C34	During the past year, have you been able to urinate smoothly	2- No
	(male only)?	3- Refuse to answer
		4- Unclear
		1- Less than once a day
C35	How many times do you defecate in a day?	2- Once a day
		3- Twice a day
		4- More than twice a day
		1- Morning
		2- Forenoon
C36	When do you usually defecate?	3- None
		4- Afternoon
		5- Night
		6- Random
C37	Have you been diagnosed with hypertension by your doctor?	1- Yes, (age at diagnosis), (hospital)
C37	have you been diagnosed with hypertension by your doctor?	2- No
		1- No
C38	Have you been diagnosed with hyperglycemia by your doctor?	2- Diabetes mellitus,(age at diagnosis)
	, , , , , , , , , , , , , , , , , , , ,	3- Prediabetes,(age at diagnosis)
		4- Unknown/other type(s),(age at diagnosis)
_		1- No (Jump to C41)
	Have you been diagnosed with a tumor by your doctor?	2- Benign
C39		3- Malignant
		4- Both benign and malignant
		5- Unclear

		1- Breast cancer
		2- Lung cancer
		3- Ovarian cancer
		4- Metrocarcinoma
		5- Brain tumor
		6- Gastric carcinoma
		7- Liver cancer
C40	Please select your specific tumor type	8- Colorectal cancer
	• •	9- Esophagus cancer
		10- Bladder cancer
		11- Pancreatic cancer
		12- Hysteromyoma
		13- Hepatic cyst
		14- Prostatic cancer
		15- Ovarian cyst
		16- Other tumor type(s),
		1- No
		2- CHD (myocardial infarction/angina)
		3- Systemic lupus erythematosus
		4- Osteoporosis
		5- Kidney-related diseases
		6- Depression
		7- Schizophrenia
		8- Hyperlipidemia
		9- Pulmonary heart disease
		10- Chronic heart failure
		11- Chronic hepatitis virus
C41	Have you been diagnosed with the following diseases by your	12- Fatty liver disease
C41	doctor (thyroid-associated diseases are not included)?	13- Liver cirrhosis
		14- Gout and hyperuricemia
		15- Interstitial pneumonia
		16- Chronic bronchitis
		17- Emphysema
		18- Asthma
		19- Tuberculosis
		20- Pneumonoconiosis
		21- Rheumatoid Arthritis
		22- Knee osteoarthritis
		23- Diabetic retinopathy
		24- diabetic foot
		25- Diabetic foot amputations

		26- Diabetic blindness	
		27- History of benign breast disease	
		28- Coronary heart disease	
		29- Heart failure	
		30- Artery disease (arteriosclerosis/plaque/arteriostenosis)	
		31- Atrial fibrillation	
		32- Brain trauma	
		33- Viral encephalitis	
		34- Benign prostatic hyperplasia	
		35- Acute pancreatitis	
		36- Other pancreatic diseases	
		37- Scleroderma	
		38- Dermatomyositis	
		39- Sicca syndrome	
		40- Gastric ulcer	
		41- Functional dyspepsia	
		42- Cholangiectasis	
		43- Other disease(s),	
C12	XX 1.1 (C 0	1- Yes	
C42	Have you had any type of surgery?	2- No (Jump to C46)	
		2- 110 (Jump to C40)	
C43	How old were you when you had your first operation?		(age)
C44	What is the reason for your operation?		(reason)
	,		(
		1- Open Surgery	
C45	What is your type of surgery?	2- Minimally invasive surgery	
		3- Other type(s)	
CAC	II 1-d - f	1- Yes	
C46	Have you ever had a fracture?	2- No (Jump to C49)	
		2 110 (Jump to C17)	
	Did your fracture occur in a violent situation (road accident	1	
C47	injury /drifting-down injury/bruise injury caused by heavy	1- Yes	
	object etc.)?	2- No	

C48	Where is your fracture location?	1- Spine 2- Hip/Femur 3- Forearm 4- Upper arm 5- Pelvis 6- Ankle 7- Rib 8- Other body part(s),
C49	Have you been diagnosed with thyroid diseases by your doctor?	 1- Hyperthyroidism 2- Hypothyroidism 3- Graves disease 4- Hashimoto's thyroiditis 5- Thyroid tumor 6- Thyroid nodule 7- No
C50	Have your direct lineal consanguinity in blood and full siblings within three generations been diagnosed with the following diseases by the doctor?	1- No 2- Unclear 3- Diabetes mellitus 4- Hyperlipidemia 5- Hypertension 6- Lung cancer 7- Prostatic cancer 8- Other malignant tumor(s) 9- Hyperthyroidism 10- Hypothyroidism 11- Graves disease 12- Hashimoto's thyroiditis 13- Pancreatitis 14- Knee Arthritis 15- Ankylosing Spondylitis 16- Systemic Lupus Erythematosus 17- Rheumatoid arthritis 18- Scleroderma 19- Dermatomyositis 20- Sicca syndrome 21- Polycystic kidney disease 22- Familial hypercholesterolemia 23- Hypertrophic cardiomyopathy 24- Dilated cardiomyopathy 25- Arrhythmogenic Right Ventricular Cardiomyopathy 26- Long QT syndrome

27	- Catecholaminergic polymorphic ventricular tachycardia
28	- Brugada syndrome
29	- Marfan syndrome
30	- Liddle's syndrome
31	- Familial Aldosteronism
32	- Glucocorticoid-remediable aldosteronism

Part 4: Female Relevant Information (Female only)

No.	Item	Response option	Your answer
D1	When did you first have a period?	1- First menstruation,(age)	_
		2- No menstruation (Jump to D3), because of	
		1- < 3 days	
D2	How long does your period last?	2- 3-7 days	
	S 7 I	3- > 7 days	
		4- Irregular	
	How many children have you had?	1- None (Jump to D6)	
D3		2- One	
		3- ≥ Two,(specific number)	
D4	When did you have your first child?		(age)
	How long have you been breast-feeding?	1- 1-6 months	
		2- 7-12 months	
D5		3- 13-24 months	
		4- > 24 months	
		5- Not breast-feeding	
		1- No	
	Have you been diagnosed with pregnancy diseases by your doctor?	2- Gestational hypertension	
D6		3- Eclampsia	
20		4- Gestational diabetes mellitus	
		5- Hyperthyroidism/hypothyroidism in pregnancy	
		6- Other disease(s),	

D7	Have you ever had an abortion?	1- No 2- Pathologic labor,(abortion times) 3- Family planning policy,(abortion times) 4- Other reason(s),(abortion times)
D8	Have you had three or more unexplained miscarriages?	1- Yes 2- No
D9	Are you menopausal?	 1- Premenopause (Jump to E1) 2- Perimenopause (Jump to E1) 3- Postmenopause
D10	When did you go through menopause?	(age)
D11	Did you go through menopause naturally?	1- Yes 2- No

Part 5: Diet

No.	Item	Response option	Your answer
E1	Are you living alone?	1- Yes 2- No	
E2	Are you eating alone?	1- Yes 2- No,(specific number)	
E3	What type of drinking water do you prefer?	 Tap water Bottled water Well water Purified water Pure water Bottled Mineral Water Spring Water Other type(s), 	

		1- Canola oil
	What kind of oil do you prefer?	2- Soybean oil
		3- Peanut oil
E4		4- Olive oil
		5- Corn oil
		6- Sesame oil
		7- Animal oil
		8- Other type(s),
		1- Greasy
		2- Spicy
77.5		3- Salty
E5	What is the taste preference of your daily diet?	4- Light
		5- Sweet
		6- Hot
		7- Moderate
77.6		1- Hard
E6	What is the texture requirement of the food you eat?	2- Moderate
		3- Soft
		1- Hot
E7	What is the temperature requirement of the food you eat?	2- Warm
		3- Cold
		1- Slowly (> 45min)
E8	How fast do you usually eat?	2- Moderately
		3- Fast (< 15min)
E9	Do you have a regular diet?	1- Yes
L)	Do you have a regular diet.	2- No (Jump to E11)
		1- Breakfast, (specific meal time)
	When is your mealtime?	2- Lunch, (specific meal time)
E10		3- Dinner, (specific meal time)
		4- Extra meal 1,(specific meal time)
		5- Extra meal 2, (specific meal time)
-		1- Home,(times)
E11	What is the average frequency of your breakfast each week?	2- Restaurant, (times)
L 11	what is the average frequency of your breakfast each week!	3- Canteen, (times)
		4- Take-away, (times)
_	What is the average frequency of your lunch each week?	1- Home, (times)
E12		2- Restaurant, (times)
2.2		3- Canteen, (times)
		4- Take-away, (times)

		1 II (/')
		1- Home, (times)
E13	What is the average frequency of your lunch each week?	2- Restaurant, (times)
		3- Canteen, (times)
		4- Take-away, (times)
		1- Home, (times)
E14	What is the average frequency of your lunch each week?	2- Restaurant, (times)
		3- Canteen, (times)
		4- Take-away, (times)
		1- Breakfast > Lunch > Dinner
		2- Lunch > Breakfast > Dinner
E15	Diagon sout your mooks according to food intoles	3- Lunch > Dinner > Breakfast
E13	Please sort your meals according to food intake	4- Breakfast > Dinner > Lunch
		5- Dinner > Lunch > Breakfast
		6- Dinner > Breakfast > Lunch
		7- Equal
		1- Almost not
E16	How often do you eat sweets each week?	2- Seldom (Once or twice a week)
		3- Always (three to five times a week)
		4- Daily (five or more times a week)
		1- Almost not
E17	How often do you eat fried food each week?	2- Seldom (Once or twice a week)
21,	Tow often do you can mod food cach week.	3- Always (three to five times a week)
		4- Daily (five or more times a week)
		1- Almost not
E18	How often do you drink tea each week?	2- Seldom (Once or twice a week)
LIO	How often do you diffix tea each week:	3- Always (three to five times a week)
		4- Daily (five or more times a week)
		1- Almost not
E10	Hannafton da man dainte auffan and manta	2- Seldom (Once or twice a week)
E19	How often do you drink coffee each week?	3- Always (three to five times a week)
		4- Daily (five or more times a week)
E20	In addition to your daily diet, do you regularly take vitamin or	1- Yes
L20	mineral supplements?	2- Irregular
		3- No
	In addition to your daily diet, do you regularly take probiotic supplements?	1- Yes
E21		2- Irregular
		3- No

In addition to your daily diet, do your daily

Part 6: Psychological State

No.	Item	Response option	Your answer
(Plea	ase answer all questions carefully. This questionnaire asks pen higher scores rep	F1-Questionnaire 1 ople to rate themselves and select the corresponding option a presented the more agreeable with the point of view)	according to different circumstances. The
F1-1	In uncertain times, I usually expect the best.	 1- Strongly disagree 2- Disagree 3- Neutral 4- Agree 5- Strongly agree 	
F1-2	If something can go wrong for me, it will.	1- Strongly disagree 2- Disagree 3- Neutral 4- Agree 5- Strongly agree	
F1-3	I always optimistic about my future.	1- Strongly disagree 2- Disagree 3- Neutral 4- Agree 5- Strongly agree	

		1- Strongly disagree
	Things never work out the way I want them to.	2- Disagree
F1-4		3- Neutral
		4- Agree
		5- Strongly agree
	I rarely count on good things happening to me.	1- Strongly disagree
		2- Disagree
F1-5		3- Neutral
		4- Agree
		5- Strongly agree
	In general, I prefer good things to bad things to happen to me.	1- Strongly disagree
F1 6		2- Disagree
F1-6		3- Neutral
		4- Agree
		5- Strongly agree

F2-Questionnaire 2

(Please answer all questions carefully. This questionnaire asks people to rate themselves and select the corresponding option according to different circumstances. The higher scores represented the more agreeable with the point of view)

,	In most ways my life is close to my ideal.	1- Strongly disagree
		2- Disagree
		3- Slightly disagree
F2-1		4- Neither agree nor disagree
		5- Slightly agree
		6- Agree
		7- Strongly agree
		1- Strongly disagree
		2- Disagree
		3- Slightly disagree
F2-2	The conditions of my life are excellent.	4- Neither agree nor disagree
		5- Slightly agree
		6- Agree
		7- Strongly agree
		1- Strongly disagree
	I am satisfied with my life.	2- Disagree
F2-3		3- Slightly disagree
		4- Neither agree nor disagree
		5- Slightly agree

		6- Agree
		7- Strongly agree
		1- Strongly disagree
	So far I have gotten the important things I want in life.	2- Disagree
		3- Slightly disagree
F2-4		4- Neither agree nor disagree
		5- Slightly agree
		6- Agree
		7- Strongly agree
		1- Strongly disagree
		2- Disagree
T0 7	YOY 1111 U.S. Y. 11.1	3- Slightly disagree
F2-5	If I could live my life over, I would change almost nothing.	4- Neither agree nor disagree
		5- Slightly agree
		6- Agree
		7- Strongly agree
	(Please read each section carefully.	Liness Scale (Simplified Version) Larger number means higher frequency of occurrence. and select the corresponding option according to different circumstances)
	(Please read each section carefully.	Larger number means higher frequency of occurrence. nd select the corresponding option according to different circumstances)
F3-1	(Please read each section carefully. This questionnaire asks people to rate themselves ar	Larger number means higher frequency of occurrence. nd select the corresponding option according to different circumstances) 1- Never
F3-1	(Please read each section carefully.	Larger number means higher frequency of occurrence. nd select the corresponding option according to different circumstances) 1- Never 2- Sometimes
F3-1	(Please read each section carefully. This questionnaire asks people to rate themselves ar	Larger number means higher frequency of occurrence. Indicate the corresponding option according to different circumstances) 1- Never 2- Sometimes 3- Always
F3-1	(Please read each section carefully. This questionnaire asks people to rate themselves ar	Larger number means higher frequency of occurrence. Indiselect the corresponding option according to different circumstances) 1- Never 2- Sometimes 3- Always 1- Never
	(Please read each section carefully. This questionnaire asks people to rate themselves ar Lack companionship	Larger number means higher frequency of occurrence. Indicate the corresponding option according to different circumstances) 1 - Never 2 - Sometimes 3 - Always 1 - Never 2 - Sometimes
	(Please read each section carefully. This questionnaire asks people to rate themselves ar Lack companionship	Larger number means higher frequency of occurrence. Indicate the corresponding option according to different circumstances) 1- Never 2- Sometimes 3- Always 1- Never 2- Sometimes 3- Always 3- Always
	(Please read each section carefully. This questionnaire asks people to rate themselves ar Lack companionship	Larger number means higher frequency of occurrence. Indicate the corresponding option according to different circumstances) 1- Never 2- Sometimes 3- Always 1- Never 2- Sometimes 3- Always 1- Never
F3-2	(Please read each section carefully. This questionnaire asks people to rate themselves ar Lack companionship Feel left out	Larger number means higher frequency of occurrence. Indicate the corresponding option according to different circumstances) 1- Never 2- Sometimes 3- Always 1- Never 2- Sometimes 3- Always 1- Never 2- Sometimes 3- Always 1- Never 2- Sometimes
F3-2	(Please read each section carefully. This questionnaire asks people to rate themselves ar Lack companionship Feel left out Feel isolated from others	Larger number means higher frequency of occurrence. Indicate the corresponding option according to different circumstances) 1 - Never 2 - Sometimes 3 - Always 1 - Never 2 - Sometimes 3 - Always 1 - Never 2 - Sometimes 3 - Always 1 - Never 3 - Always 1 - Never 3 - Always 1 - Never 3 - Always
F3-2	(Please read each section carefully. This questionnaire asks people to rate themselves are Lack companionship Feel left out Feel isolated from others F4-Generalized Anserta	Larger number means higher frequency of occurrence. Indicate the corresponding option according to different circumstances) 1- Never 2- Sometimes 3- Always
F3-2	(Please read each section carefully. This questionnaire asks people to rate themselves are Lack companionship Feel left out Feel isolated from others F4-Generalized Anserta	Larger number means higher frequency of occurrence. Indicate the corresponding option according to different circumstances) 1 - Never 2 - Sometimes 3 - Always 1 - Never 2 - Sometimes 3 - Always 1 - Never 2 - Sometimes 3 - Always 1 - Never 3 - Always 1 - Never 3 - Always 1 - Never 3 - Always
F3-2	(Please read each section carefully. This questionnaire asks people to rate themselves are Lack companionship Feel left out Feel isolated from others F4-Generalized Anserta	Larger number means higher frequency of occurrence. Indicate the corresponding option according to different circumstances) 1- Never 2- Sometimes 3- Always
F3-2 F3-3	(Please read each section carefully. This questionnaire asks people to rate themselves are Lack companionship Feel left out Feel isolated from others F4-Generalized Anse (Over the last 2 weeks, how often have	Larger number means higher frequency of occurrence. Indiselect the corresponding option according to different circumstances) 1- Never 2- Sometimes 3- Always 2- Sometimes 3- Always 2- Sometimes 3- Always 3- Always 3- Always 3- Always 3- Always 3- Always
F3-2	(Please read each section carefully. This questionnaire asks people to rate themselves are Lack companionship Feel left out Feel isolated from others F4-Generalized Anserta	Larger number means higher frequency of occurrence. Indiselect the corresponding option according to different circumstances) 1- Never 2- Sometimes 3- Always 1- Never 1- Not at all

		1- Not at all
F4-2	Feeling hard to stop or control anxiety	2- Several days
F4-2		3- More than 1 week
		4- Nearly every day
-		1- Not at all
E4.2	F	2- Several days
F4-3	Excessive anxiety about different things	3- More than 1 week
		4- Nearly every day
-		1- Not at all
E4.4	Trankla relania a	2- Several days
F4-4	Trouble relaxing	3- More than 1 week
		4- Nearly every day
		1- Not at all
E4.5	Daing as mostless that it is hard to sit still	2- Several days
F4-5	Being so restless that it is hard to sit still	3- More than 1 week
		4- Nearly every day
-		1- Not at all
F4-6	Pagaming agaily annoyed or irritable	2- Several days
Γ4-0	Becoming easily annoyed or irritable	3- More than 1 week
		4- Nearly every day
		1- Not at all
F4-7	Feeling afraid as if something awful might happen	2- Several days
1 4-7	reching arraid as it something awrait might happen	3- More than 1 week
		4- Nearly every day
	DE D. C. A.	I will O with a first of (DIIO O)
		Health Qustionnaire-9 (PHQ-9)
	(Over the last 2 weeks, how often h	have you been bothered by any of the following problems?)
		1- Not at all
F5-1	Little interest or pleasure in doing things	2- Several days
		3- More than half the days
		4- Nearly every day
	Feeling down, depressed, or hopeless	1- Not at all
F5-2		2- Several days
		3- More than half the days
		4- Nearly every day
	Trouble falling or staying asleep, or sleeping too much	1- Not at all
F5-3		2- Several days
		3- More than half the days
		4- Nearly every day

		1- Not at all
F5-4	Feeling tired or having little energy	2- Several days
		3- More than half the days
		4- Nearly every day
		1- Not at all
F5-5	Poor appetite or overeating	2- Several days
	Tool appende of overcaming	3- More than half the days
		4- Nearly every day
		1- Not at all
F5-6	Feeling bad about yourself or that you are a failure or have let	2- Several days
	yourself or your family down	3- More than half the days
		4- Nearly every day
		1- Not at all
F5-7	Trouble concentrating on things, such as reading the newspaper	2- Several days
	or watching television	3- More than half the days
		4- Nearly every day
	Moving or speaking so slowly that other people could have	1- Not at all
F5-8	noticed; Or the opposite—being so fidgety or restless that you have been moving around a lot more than usual	2- Several days
1 5-0		3- More than half the days
		4- Nearly every day
		1- Not at all
F5-9	Thoughts that you would be better off dead or of hurting	2- Several days
	yourself in some way	3- More than half the days
		4- Nearly every day