

**The structure of relationships between the human exposome and
cardiometabolic health: The Million Veteran Program**

SUPPLEMENTARY INFORMATION

Table S1: Number of participants excluded based on use of antilipemic, antihypertensive and/or hypoglycemic medications during either the exposure-assessment or outcome-assessment periods

	Number excluded
Use of antilipemic, antihypertensive and hypoglycemic medications	14,943
Use of antilipemic and antihypertensive medications	12,286
Use of antilipemic and hypoglycemic medications	53,776
Use of antihypertensive and hypoglycemic medications	1,471
Use of antilipemic medications only	85,233
Use of antihypertensive medications only	5,940
Use of hypoglycemic medications only	8,714

Table S2: Additional baseline characteristics of all Million Veterans Program participants included in this study

	Value
DEMOGRAPHICS	
Previous smoking (<i>number of cigarettes smoked/day</i>)	1.37 ± 1.52
Hispanic or Latino (%)	6
Body mass index (<i>kg/m²</i>)	27.91 ± 5.37
DIETARY INTAKE	
Dairy	
Yogurt (<i>serves/day</i>)	0.23 ± 0.46
Ice cream (<i>serves/day</i>)	0.20 ± 0.38
Cottage Cheese (<i>serves/day</i>)	0.08 ± 0.24
Other cheese (<i>serves/day</i>)	0.46 ± 0.58
Butter (<i>serves/day</i>)	0.39 ± 0.68
Meat	
Eggs (<i>serves/day</i>)	0.43 ± 0.57
Chicken with skin on (<i>serves/day</i>)	0.25 ± 0.40
Chicken without skin (<i>serves/day</i>)	0.27 ± 0.36
Liver (<i>serves/day</i>)	0.01 ± 0.11
Fish (<i>serves/day</i>)	0.17 ± 0.28
Sweets and other foods	
Nuts (<i>serves/day</i>)	0.30 ± 0.51
Peanut butter (<i>serves/day</i>)	0.25 ± 0.43
Chocolate (<i>serves/day</i>)	0.28 ± 0.50
Candy (<i>serves/day</i>)	0.14 ± 0.39
Cookies (<i>serves/day</i>)	0.22 ± 0.48
Margarine (<i>serves/day</i>)	0.32 ± 0.61
Dressing (<i>serves/day</i>)	0.21 ± 0.37

Grains

Cold cereal (<i>serves/day</i>)	0.33 ± 0.47
White bread (<i>serves/day</i>)	0.27 ± 0.55
Dark bread (<i>serves/day</i>)	0.39 ± 0.60
Rice (<i>serves/day</i>)	0.27 ± 0.36

Non-alcoholic beverages

Coffee (<i>serves/day</i>)	1.30 ± 1.46
Tea (<i>serves/day</i>)	0.39 ± 0.85
Diet carbonated beverages (<i>serves/day</i>)	0.27 ± 0.72
Sugar carbonated beverages (<i>serves/day</i>)	0.22 ± 0.60
Fruit drinks (<i>serves/day</i>)	0.17 ± 0.48
Orange or grapefruit juice (<i>serves/day</i>)	0.27 ± 0.5

Vegetables

Tomato (<i>serves/day</i>)	0.31 ± 0.44
Raw carrot (<i>serves/day</i>)	0.20 ± 0.37
Baked potato (<i>serves/day</i>)	0.22 ± 0.29

Fruit

Bananas (<i>serves/day</i>)	0.41 ± 0.53
Other fruit (<i>serves/day</i>)	0.36 ± 0.56

PHYSICAL INACTIVITY

Playing video games (<i>hours/week</i>)	1.55 ± 6.81
Using a computer (<i>hours/week</i>)	16.19 ± 21.27
Watching TV (<i>hours/week</i>)	21.36 ± 21.78

Number of participants: 36,496

Results are mean ± standard deviation or %, where appropriate

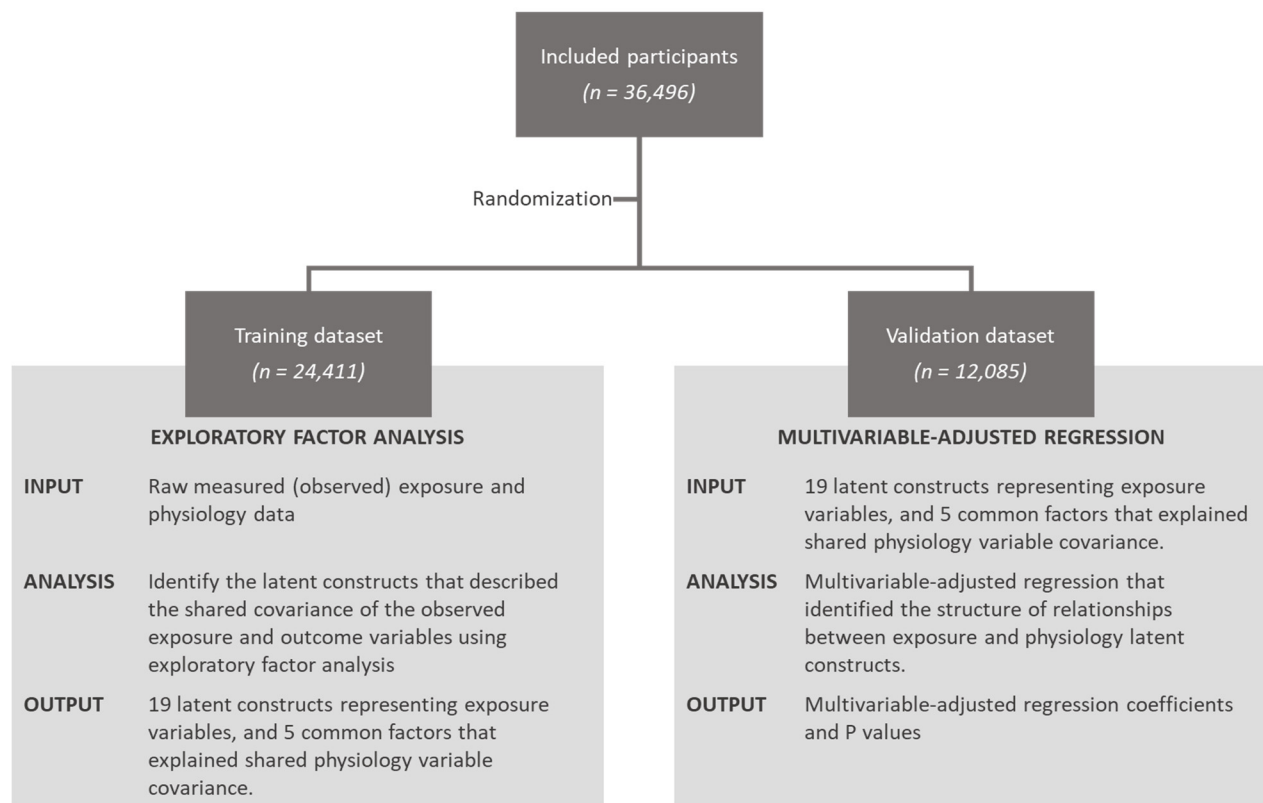


Figure S1: Schematic overview of the training and validation datasets.

Observed exposure variables



Figure S2: Rotated factor pattern based on tetrachoric and polychoric, common exploratory factor analysis of measured exposure variables in the training dataset; limited to observed (measured) variables that did not have a standardized regression coefficient ≥ 0.5 for at least one latent construct.

Number of participants: 24,411

