Supplementary Table S1. STROBE Statement—Checklist of items that should be included in reports of cross-sectional studies

	Item No	Recommendation
Title and abstract	1	(*a*) Indicate the study's design with a commonly used term in the title or the abstract
		(*b*) Provide in the abstract an informative and balanced summary of what was done and what was found
Introduction		
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported
Objectives	3	State specific objectives, including any prespecified hypotheses
Methods		
Study design	4	Present key elements of study design early in the paper
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection
Participants	6	(*a*) Give the eligibility criteria, and the sources and methods of selection of participants
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable
Data sources/ measurement	8*	For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there is more than one group
Bias	9	Describe any efforts to address potential sources of bias
Study size	10	Explain how the study size was arrived at
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why
Statistical methods	12	(*a*) Describe all statistical methods, including those used to control for confounding
		(*b*) Describe any methods used to examine subgroups and interactions
		(*c*) Explain how missing data were addressed
		(*d*) If applicable, describe analytical methods taking account of sampling strategy
		(*e*) Describe any sensitivity analyses
Results		
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed
		(b) Give reasons for non-participation at each stage
		(c) Consider use of a flow diagram
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders

		(b) Indicate number of participants with missing data for each variable of interest
Outcome data	15 *	Report numbers of outcome events or summary measures
Main results	16	(*a*) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence interval). Make clear which confounders were adjusted for and why they were included
		(*b*) Report category boundaries when continuous variables were categorized
		(*c*) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses
Discussion		
Key results	18	Summarise key results with reference to study objectives
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence
Generalisability	21	Discuss the generalisability (external validity) of the study results
Other information		
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the original study on which the present article is based

*Give information separately for exposed and unexposed groups.

Note: An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at http://www.plosmedicine.org/, Annals of Internal Medicine at http://www.annals.org/, and Epidemiology at http://www.epidem.com/). Information on the STROBE Initiative is available at www.strobe-statement.org.

Supplementary Table S2. The prevalence of undiagnosed diabetes, undiagnosed hypertension, and undiagnosed hypercholesterolemia stratified by BMI status among the Malaysian adults (n=13,024).

Characteristic	Count (n)	Underweight (n= 945)		Normal (n= 3,722)		Overweight/ Obese (n= 8,357)		P-value*
		Prevalence (%)	95 % CI	Prevalence (%)	95 % CI	Prevalence (%)	95 % CI	
Undiagnosed diabetes								<0.0001
Yes	1520	5.7	4.1 – 7.8	21.0	18.1 – 24.1	73.3	69.6 – 76.7	
No	11504	8.5	7.7 – 9.3	32.0	30.8 – 33.2	59.5	58.2 – 60.8	
Undiagnosed hypertension								<0.0001
Yes	3174	2.2	1.7 – 2.9	17.8	16.1 – 19.6	80.0	78.1 – 81.8	
No	9850	9.7	8.9 – 10.6	34.3	34.0 – 35.6	56.0	54.6 – 57.5	
Undiagnosed hypercholesterolaemia								<0.0001
Yes	6436	5.5	4.7 – 6.5	26.1	24.6 – 27.6	68.4	66.7 – 70.0	
No	6588	10.4	9.3 – 11.5	34.9	33.3 – 36.5	54.7	53.0 – 56.4	

Supplementary Table S3. The prevalence and 95% confidence interval of undiagnosed diabetes, undiagnosed hypertension, and undiagnosed hypercholesterolemia stratified by central obesity status among the Malaysian adults (n=12,978).

Characteristic	Count (n)	Normal (n= 7056)		Obese (n= 5922)		P-value*
		Prevalence (%)	95 % CI	Prevalence (%)	95 % CI	
Undiagnosed diabetes						<0.0001
Yes	1524	45.1	41.4 – 48.8	54.9	51.2 – 58.6	
No	11454	59.5	58.1 – 60.9	40.5	39.1 – 41.9	
Undiagnosed hypertension						<0.0001
Yes	3176	38.2	35.8 – 40.7	61.8	59.3 – 64.2	
No	9802	63.1	61.7 – 64.6	36.9	35.4 – 38.3	
Undiagnosed hypercholesterolemia						<0.0001
Yes	6440	50.5	48.7 – 52.4.	49.5	47.6 – 51.3	
No	6538	64.3	62.6 – 66.0	35.7	34.0 – 37.4	

Supplementary Table S4. Model fit and ROC analysis for final model of multiple logistic regression

Obesity	Health condition	Cox & Snell	Nagelkerke's R squares	Wald Statistics	Classification Table	(AUC)	95% CI
General obesity	Undiagnosed diabetes	0.025	0.051	<0.001	89.7%	0.66	0.65 – 0.68
	Undiagnosed hypertension	0.092	0.145	<0.001	80.7%	0.75	0.74 – 0.76
	Undiagnosed hypercholesterolemia	0.072	0.096	<0.001	62.5%	0.67	0.66 – 0.68
Central obesity	Undiagnosed diabetes	0.024	0.049	<0.001	89.7%	0.66	0.64 – 0.68
	Undiagnosed hypertension	0.088	0.140	<0.001	80.5%	0.75	0.74 – 0.76
	Undiagnosed hypercholesterolemia	0.068	0.090	<0.001	62.0%	0.67	0.66 – 0.68

AUC: Area under curve; 95% CI: 95% confidence interval