**Codebook descriptions of all variables in the data**

**List of abbreviations:**

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| **Abbreviations** | **Meaning**  |
| BMI | Body mass index |
| CAD | Coronary artery disease |
| DLCC | Dutch Lipid Clinic Network criteria |
| DM | Diabetes mellitus |
| FH | Familial hypercholesterolaemia |
| HC | Hypercholesterolaemia |
| HDL | High-density lipoprotein  |
| HPT | Hypertension |
| LDL | Low-density lipoprotein |
| PCAD | Premature coronary artery disease |
| TC | Total cholesterol |
| TG | Triglyceride |
| WC | Waist circumference |

**\*Missing informations for all variables were labelled as: NO DATA**

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| --- | --- | --- | --- |
| Column | Variable name | Variable label | Format /details |
| A | PARTICIPANTS | Participants' identifier/ code name | Numerical |
| B | DLCC | Dutch Lipid Clinic Network criteria  | Cases were clinically diagnosed as familial hypercholesterolaemia using DLCC criteria. Cases were categorised based on points scored using DLCC.* Definite FH: >8 points
* Probable FH: 6-8 points
* Possible FH: 3-5 points
* Unlikely FH: 0-2 points
 |
| C | FH | Familial Hypercholesterolaemia  | FH/No FH* FH: DLCC score ≥ 3 points
* No FH: DLCC score < 3 points
 |
| D | AGE | Age upon recruitment | Years |
| E | GENDER | - | Male/Female |
| F | ETHNICITY | - | Malay/Chinese/ Indian and other ethnicities |
| G | SMOKING | Smoking status | Current smoker/ Former smoker/ Non-smoker* Based on medical records/standard questionnaires
 |
| H | HPT | Hypertension | Yes/no * Based on medical records/standard questionnaires
 |
| I | DM | Diabetes mellitus | Yes/no* Based on medical records/ standard questionnaires
 |
| J | HC | Hypercholesterolaemia | Yes/no* Based on medical records/ standard questionnaires
 |
| L | PREMATURE\_CAD | Premature coronary artery disease  | Yes/no * Based on medical records/angiogram-proven
 |
| K | AGE\_PCAD | Age upon the first onset of coronary artery disease  | Years* Based on medical records/angiogram-proven
* NA: Not available – non-PCAD cases
 |
| M | PCAD\_FAMILY | Family history of premature coronary artery disease | Yes/no* Based on medical records/ standard questionnaires
 |
| N | HC\_FAMILY | Family history of hypercholesterolaemia | Yes/no* Based on medical records/ standard questionnaires
 |
| O | BMI | Body mass index value | From on-sitemeasurement in kg/m2 |
| P | BMI\_CATEGORIES | Body mass index categories | Categorised based on BMI measurement:* Underweight: BMI <18.5 kg/m2
* Normal: BMI 18.5 – 29.9 kg/m2
* Overweight: BMI 23–24.9 kg/m2
* Pre-obese: BMI 25-29.9 kg/m2
* Obese: BMI ≥30 kg/m2
 |
| Q | WC | Waist circumference | From on-site measurement in cm |
| R | CENTRAL\_OBESITY | Central obesity status  | Categorised based on WC measurement:* Centrally obese: Male ≥90 cm, female ≥80 cm
* Not centrally obese: Male < 90 cm, female < 80 cm
 |
| S | TC\_LEVEL | Total cholesterol level | Level upon recruitment in mmol/L |
| T | TG\_LEVEL | Triglyceride level | Level upon recruitment in mmol/L |
| U | HDL\_LEVEL | High density lipoprotein level  | Level upon recruitment in mmol/L |
| V | POST\_TREATMENT\_LDL\_LEVEL | Post-treatment low density lipoprotein level  | Level upon recruitment in mmol/L |
| W | STATIN | Types and doses of statin | Current statin intake upon recruitment* No: Not prescribed with statin at the moment of recruitment/not taking any statin during blood collection upon recruitment.
* No Data: missing information
* Unknown: Statin was taken, but unknown types and doses.
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| X | PRE\_TREATMENT\_LDL\_LEVEL | Pre-treatment low density lipoprotein level  | * Calculated level of post-treatment LDL. Calculated using LDL-cholesterol adjustment factors based on types and doses of statin – in mmol/L.
* Those with ‘UNKNOWN’ in STATIN column – LDL was calculated using 1.43 adjustment factor
* Those with ‘NO’ in STATIN column remains with the LDL level from ‘POST\_TREATMENT\_LDL\_LEVEL’ column
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| Y | LIPID\_LOWERING\_THERAPY | Lipid lowering therapy intake  | Yes/ no* Upon recruitment
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| Z | CORNEAL\_ARCUS | Presence of corneal arcus before age 45 years old | Yes/ no |
| AA | TENDON\_XANTHOMA | Presence of tendon xanthomata | Yes/ no |
| AB | GROUPS | Groupings for all cases | Based on the presence/absence of premature coronary artery disease or familial hypercholesterolaemia* FH\_PCAD: PCAD with FH
* FH\_No PCAD: Non-PCAD with FH
* No FH\_PCAD: PCAD without FH
* No FH\_No PCAD: Without both PCAD nor FH
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