**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. |
| 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 |
| Y | LIPID\_LOWERING\_THERAPY | Lipid lowering therapy intake | Yes/ no   * Upon recruitment |
| 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 |