|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Variable  | Category  | label | unit |
| 1 | kcal |  | Exact non-adjusted K calorie intake value | Kilo Calorie |
| 2 | protein |  | Exact dietary protein intake value | Gram |
| 3 | carbo |  | Exact dietary carbohydrate intake value | Gram |
| 4 | fat |  | Exact dietary fat intake value | Gram |
| 5 | fiber |  | Exact dietary fiber intake value | Gram |
| 6 | chol |  | Exact dietary cholesterol intake value | milligram |
| 7 | saturate |  | Exact dietary saturated fatty acids intake value | Gram |
| 8 | oleic |  | Exact dietary oleic acid intake value | Gram |
| 9 | linoleic |  | Exact dietary linoleic acid intake value | Gram |
| 10 | sodium |  | Exact dietary sodium intake value | milligram |
| 11 | potassium |  | Exact dietary potassium intake value | milligram |
| 12 | manganes |  | Exact dietary **Magnesium** intake value | milligram |
| 13 | iron |  | Exact dietary iron intake value | milligram |
| 14 | zinc |  | Exact dietary zinc intake value | milligram |
| 15 | vita |  | Exact dietary vitamin A intake value | IU |
| 16 | vitd |  | Exact dietary vitamin D intake value | IU |
| 17 | vite |  | Exact dietary vitamin E intake value | milligram |
| 18 | vitc |  | Exact dietary vitamin C intake value | milligram |
| 19 | thiamin |  | Exact dietary thiamin intake value | milligram |
| 20 | riboflav |  | Exact dietary riboflavin intake value | milligram |
| 21 | niacin |  | Exact dietary niacin intake value | milligram |
| 22 | vitb6 |  | Exact dietary vitamin B6 intake value | milligram |
| 23 | folacin |  | Exact dietary folic acid intake value | Microgram |
| 24 | vitb12 |  | Exact dietary vitamin B12 intake value | Microgram |
| 25 | pantoaci |  | Exact dietary pentatonic acid intake value | milligram |
| 26 | calcium |  | Exact dietary calcium intake value | milligram |
| 27 | phosphor |  | Exact dietary phosphor intake value | milligram |
| 28 | tryptoph |  | Exact dietary tryptophan intake value | milligram |
| 29 | threonin |  | Exact dietary threonine intake value | milligram |
| 30 | isoleuci |  | Exact dietary isoleucine intake value | milligram |
| 31 | leucin |  | Exact dietary leucine intake value | milligram |
| 32 | lysine |  | Exact dietary lysine intake value | milligram |
| 33 | methioni |  | Exact dietary methionine intake value | milligram |
| 34 | cystine |  | Exact dietary cysteine intake value | milligram |
| 35 | phenylan |  | Exact dietary phenylalanine intake value | milligram |
| 36 | tyrosine |  | Exact dietary tyrosine intake value | milligram |
| 37 | valine |  | Exact dietary valine intake value | milligram |
| 38 | histidin |  | Exact dietary histidine intake value | milligram |
| 39 | alcohol |  | Exact dietary alcohol intake value | milligram |
| 40 | ash |  | Exact dietary ash intake value | Gram |
| 41 | copper |  | Exact dietary copper intake value | Gram |
| 42 | manganes |  | Exact dietary **Manganese** intake value | milligram |
| 43 | iodine |  | Exact dietary iodine intake value | milligram |
| 44 | monofat |  | Exact dietary mono-unsaturated fatty acid intake value | Gram |
| 45 | polyfat |  | Exact dietary poly-unsaturated fatty acids intake value | Gram |
| 46 | caffein |  | Exact dietary caffeine intake value | milligram |
| 47 | fluoride |  | Exact dietary fluoride intake value | Microgram |
| 48 | molybden |  | Exact dietary molybdenum intake value | Microgram |
| 49 | vitk |  | Exact dietary vitamin K intake value | Microgram |
| 50 | selenium |  | Exact dietary selenium intake value | milligram |
| 51 | biotin |  | Exact dietary biotin intake value | Microgram |
| 52 | chloride |  | Exact dietary chloride intake value | milligram |
| 53 | chromium |  | Exact dietary chromium intake value | milligram |
| 54 | sugar |  | Exact dietary sugar intake value | Gram |
| 55 | serum\_pth |  | Exact serum parathyroid level value | pg/mL |
| 56 | serumvit\_d1 |  | Exact serum vitamin D level value | ng/mL |
| 57 | serum\_ca1 |  | Exact serum calcium level value | mg/dL |
| 58 | serum\_phosph1 |  | Exact serum phosphor level value | Mg/dL |
| 59 | serum\_alkphosphatas |  | Exact serum alkalynphosphatase level value | U/L |
| 60 | age |  | Exact dietary protein intake value | Year |
| 61 | sex | Male | 1 |  |
|  |  | Female | 0 |  |
| 62 | menarch |  | Exact age of onset | Year |
| 63 | menopose |  | Exact age of onset | Year |
| 64 | interval |  |  age of onset | Year |
| 65 | duration |  | Duration of interval | Year |
| 66 | gestation | **Ignored** |  |  |
| 67 | lactation | number | From last lactation | month |
|  | Without lactation in life | 0 |  |  |
| 68 | smoker | Non Smoker | 0 |  |
|  |  | Smoker | 1 |  |
|  |  | Previous smoker | 2 |  |
| 69 | smok\_duration |  | Exact smoking duration |  |
| 70 | Hookah\_number |  | Hookah number used per day |  |
| 71 | Hookah\_duration |  | Exact Hookah duration |  |
| 72 | sun | Sun exposing | 1 |  |
|  |  | Not sun exposing | 2 |  |
| 73 | san\_cream | Sun cream user | 1 |  |
|  |  | Non-sun cream user | 2 |  |
| 74 | station |  |  |  |
|  |  |  |  |  |
| 75 | sport | Exercising | 1 |  |
|  |  | Not Exercising | 2 |  |
| 76 | chair | Chair using for sitting | 1 |  |
|  |  | Not Chair using for sitting | 2 |  |
| 77 | stair | Stair user | 1 |  |
|  |  | Not Stair user | 2 |  |
| 78 | vitd1 | Supplement user | 1 |  |
|  |  | Not Supplement user | 2 |  |
| 79 | osteo | With osteoporosis | 1 |  |
|  |  | Without osteoporosis | 2 |  |
| 80 | htn | With hypertension | 1 |  |
|  |  | Without hypertension | 2 |  |
| 81 | renal | With renal disease | 1 |  |
|  |  | Without renal disease | 2 |  |
| 82 | body pain | With body pain | 1 |  |
|  |  | Without body pain | 2 |  |
| 83 | height |  | Exact height measured value  | Meter |
| 84 | weight |  | Exact weight measured value | Kg |
| 85 | waist |  | Exact waist measured value | Centimeter |
| 86 | hip |  | Exact hip measured value | Centimeter |
| 87 | blood\_presure\_s |  | Exact systolic blood pressure value | **mm Hg** |
| 88 | blood\_presure\_d |  | Exact diastolic blood pressure value | **mm Hg** |
| 89 | Milk\_w |  | Exact Milk intake value | Cup |
| 90 | yogurt\_w |  | Exact yogurt intake value | Cup |
| 91 | dough\_w |  | Exact dough intake value | Cup |
| 92 | Condensedyogurt\_w |  | Exact Condensed-yogurt intake value | Table spoon  |
| 93 | Cheese\_m\_w |  | Exact Cheese intake value | ounce |
| 94 | CreamCheese\_w |  | Exact dietary protein intake value | Table spoon  |
| 95 | Icecream\_w |  | Exact Ice cream intake value | Cup |
| 96 | Cream\_r\_w |  | Exact dietary Cream intake value | Table spoon  |
| 97 | kashk\_w |  | Exact kashk intake value | Table spoon  |
| 98 | Porridge\_w |  | Exact Porridge intake value | Cup |
| 99 | Butter\_w |  | Exact Butter intake value | Tea spoon  |
| 100 | Bread\_Taftoon\_w |  | Exact Bread\_Taftoon intake value | 10 ×10 cm |
| 101 | Bread\_Sangak\_w |  | Exact Bread\_Sangak intake value | 10 ×10 cm |
| 102 | Bread\_Lavash\_w |  | Exact dietary protein intake value | 10 ×10 cm |
| 103 | Bread\_Barbari\_w |  | Exact Bread\_Lavash intake value | 10 ×10 cm |
| 104 | Baget\_w |  | Exact Baget intake value | 10 ×10 cm |
| 105 | Rice\_w |  | Exact Rice intake value | Cup |
| 106 | Macaroni\_w |  | Exact macaroni intake value | Cup |
| 107 | potato\_w |  | Exact potato intake value | One medium |
| 108 | Meat\_w |  | Exact red Meat intake value | ounce |
| 109 | chicken\_w |  | Exact chicken intake value | ounce |
| 110 | beef\_Liver\_w |  | Exact beef Liver intake value | ounce |
| 111 | chiken\_Liver\_w |  | Exact chicken Liver intake value | ounce |
| 112 | Kidney\_w |  | Exact Kidney intake value | ounce |
| 113 | kalbas\_w |  | Exact kalbas intake value | ounce |
| 114 | Sausage\_w |  | Exact Sausage intake value | ounce |
| 115 | Hamburger\_w |  | Exact Hamburger intake value | One medium |
| 116 | pitza\_w |  | Exact pizza intake value | One medium |
| 117 | Fish\_w |  | Exact Fish intake value | ounce |
| 118 | Canned\_fish\_m\_w |  | Exact Canned fish intake value | One 90 gram |
| 119 | kilka\_w |  | Exact kilka fish intake value | One medium |
| 120 | sardin\_w |  | Exact sardin intake value | One medium |
| 121 | shrimp\_w |  | Exact shrimp intake value | One medium |
| 122 | kaviar\_w |  | Exact dietary protein intake value | Table spoon |
| 123 | egg\_w |  | Exact egg intake value | One medium |
| 124 | soya\_w |  | Exact soya intake value | Cup |
| 125 | klamkh\_w |  | Exact klamkh intake value | Ground in one Cup |
| 126 | Cabbage\_w |  | Exact Cabbage intake value | Ground in one Cup |
| 127 | Mashroom\_w |  | Exact Mushroom intake value | Ground in one Cup |
| 128 | Dried\_vegtable\_w |  | Exact Dried vegetable intake value | Cup |
| 129 | vegtable\_d\_w |  | Exact fresh vegetable intake value | Cup |
| 130 | Jelly\_gand\_w |  | Exact Jelly intake value | Table spoon |
| 131 | Jelly\_gand\_m |  | Exact Jelly intake value | Table spoon |
| 132 | Dried\_Fig\_w |  | Exact Dried Fig intake value | Table spoon |
| 133 | Dried\_Berry\_w |  | Exact Dried Berry intake value | Table spoon |
| 134 | Dried\_Sourcherry\_w |  | Exact Dried Sour cherry intake value | Table spoon |
| 135 | Raisins\_w |  | Exact Raisins intake value | Table spoon |
| 136 | Almonds\_w |  | Exact Almonds intake value | Table spoon |
| 137 | peanut\_w |  | Exact peanut intake value | Table spoon |
| 138 | cofee\_w |  | Exact coffee intake value | Cup |
| 139 | Tee\_w |  | Exact Tee intake value | Cup |
| 140 | Beverage\_w |  | Exact Beverage intake value | Cup |
| 141 | radius\_u\_bmd |  | Exact radius bone mass density | Gram/cm2 |
| 142 | radius\_u\_bmc |  | Exact radius ulna bone mineral content | Gram |
| 143 | radius\_u\_z |  | Exact radius ulna bone Z score |  |
| 144 | radius\_u\_t |  | Exact radius ulna bone T score |  |
| 145 | radius\_d\_bmd |  | Exact dietary protein intake value | Gram/cm2 |
| 146 | radius\_d\_bmc |  | Exact dietary protein intake value | Gram |
| 147 | radius\_d\_z |  | Exact dietary protein intake value |  |
| 148 | radius\_d\_t |  | Exact dietary protein intake value |  |
| 149 | femur\_n\_bmd |  | Exact femur neck bone mass density value | Gram/cm2 |
| 150 | femur\_n\_bmc |  | Exact femur neck bone mineral content value | Gram |
| 151 | femur\_n\_z |  | Exact femur neck bone Z score value |  |
| 152 | femur\_n\_t |  | Exact femur neck bone T score value |  |
| 153 | femur\_ward\_bmd |  | Exact femur neck ward mass density value | Gram/cm2 |
| 154 | femur\_ward\_bmc |  | Exact femur ward bone content value | Gram |
| 155 | femur\_ward\_z |  | Exact femur ward Z score |  |
| 156 | femur\_ward\_t |  | Exact femur ward t score |  |
| 157 | femur\_gt\_bmd |  | Exact femur gluteus bone mass density value | Gram/cm2 |
| 158 | femur\_gt\_bmc |  | Exact femur gluteus bone mineral content value | Gram |
| 159 | femur\_gt\_z |  | Exact femur gluteus bone Z score value |  |
| 160 | femur\_gt\_t |  | Exact femur gluteus bone T score value |  |
| 161 | Lumbar\_spine2\_bmd |  | Exact Lumbar\_spine2 bone mass density value | Gram/cm2 |
| 162 | Lumbar\_spin2\_bmc |  | Exact Lumbar\_spine2 bone content density value | Gram |
| 163 | Lumbar\_spin2\_z |  | Exact Lumbar\_spine2 bone mass Z score |  |
| 164 | Lumbar\_spin2\_t |  | Exact Lumbar\_spine2 bone mass T score |  |
| 165 | Lumbar\_spin3\_bmd |  | Exact Lumbar\_spine3 bone mass density value | Gram/cm2 |
| 166 | Lumbar\_spin3\_bmc |  | Exact Lumbar\_spine3 bone mass content value | Gram |
| 167 | Lumbar\_spin3\_z |  | Exact Lumbar\_spine3 bone mass Z score |  |
| 168 | Lumbar\_spin3\_t |  | Exact Lumbar\_spine3 bone mass T score |  |
| 169 | Lumbar\_spin4\_bmd |  | Exact Lumbar\_spine4 bone mass density value | Gram/cm2 |
| 170 | Lumbar\_spin4\_bmc |  | Exact Lumbar\_spine4 bone mass content value | Gram |
| 171 | Lumbar\_spin4\_z |  | Exact Lumbar\_spine4 bone mass Z score |  |
| 172 | Lumbar\_spin4\_t |  | Exact Lumbar\_spine4 bone mass T score |  |
| 173 | n\_menarc |  |  |  |
| 174 | n\_menopo | Pre-menopause | 1 |  |
|  |  | Post-menopause | 2 |  |
| 175 | bmi |  | Exact BMI value |  |
| 176 | bmi\_group | Less than 25 | 0 |  |
|  |  | More than 25 | 1 |  |
| 177 | whr | WHR Less than 0.80 | 1 |  |
| 178 | whr\_female | WHR More than 0.80 | 2 |  |
| 179 | whr\_male | WHR Less than 0.95 | 1 |  |
|  |  | WHR More than 0.95 | 2 |  |
| 180 | n\_whr |  |  |  |
| 181 | smok\_grou | smoker | 0 |  |
|  |  | Non smoker | 1 |  |
| 182 | sport\_gro | Sport | 0 |  |
|  |  | Non Sport | 1 |  |
| 183 | new\_smok |  |  |  |
|  |  |  |  |  |
| 184 | l |  |  |  |