**VITAL Study Data Dictionary**

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| **Variable** | **SAS Variable Name** | **SAS Variable Label** |
| Subject ID | Subject\_ID | Assigned Study ID |
| Randomization to active Vitamin D | vitdactive | Vitamin D 1-Active,0-Placebo |
| Randomization to active n−3 fatty acids | fishoilactive | Omega-3 Fatty Acids 1-Active,0-Placebo |
| **Demographic Variables** |  |  |
| Female sex | sex | Sex 1-male,2-female |
| Age (integer years, truncated at 90+) | ageyr | Age at randomization to VITAL study, years |
| Race or ethnic group | raceth | Race/ethnic group 1-NonHisp White,2-Black,3-Hispanic,4-Asian,5-Native American or Alaskan,6=Others/unknown |
| **Baseline Variables** |  |  |
| Body-mass index (kg/m2) | bmi | Body mass index at randomization, kg/m2 |
| Current smoking | currsmk | Current smoking 1-yes,0-no |
| Hypertension treated with medication | htnmed | Hypertension treated with medication 1-yes,0-no |
| Current use of cholesterol-lowering medication | cholmed | Current use of cholesterol-lowering medications 1-yes,0-no |
| Diabetes | diabetes | Baseline diabetes 1-yes,0-no |
| Use of medication for diabetes | diabmed | Medication for diabetes 1-yes,0-no |
| Parental history of myocardial infarction | parhxmi | Parental history of myocardial infarction 1-yes,0-no |
| Fish consumption (>=median of 1.5 servings/wk) | fish1\_5wk | Total fish intake >=1.5 servings per week  1-yes, 0-no |
| Baseline aspirin use | Aspirin | Baseline Aspirin use 1-yes,0-no |
| Baseline statin use | statins | Baseline statin 1-yes,0-no |
| No. of cardiovascular risk factors (0, 1, 2+) | N\_risk\_factors | Number of cardiovascular risk factors 0-None,1-One risk factor,2->one risk factor |
| Baseline Vitamin D intake <= 800 IU | VitDIntake | Baseline vitamin D intake 1-none,2-<=800 IU |
| Baseline 25(OH)D level ≥ 20 ng/ml | VitD20 | Baseline serum 25-hydroxyvitamin D 1->=20, 0-< 20 ng/mL |
| Baseline 25(OH)D level ≥ 31 ng/ml | VitD31 | Baseline serum 25-hydroxyvitamin D median 1->=31, 0-< 30 ng/mL |
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| **Outcomes** |  |  |
| *Cancer* |  |  |
| Invasive cancer of any type | malca | Malignant cancer 1-yes,0-no |
| Cancer person-years | malcayrs | Malignant cancer person-years |
| Breast cancer | brca | Malignant breast cancer 1-yes,0-no |
| Breast cancer person-years | brcayrs | Breast cancer person-years |
| Prostate cancer | prca | Malignant prostate cancer 1-yes,0-no |
| Prostate cancer person-years | prcayrs | Prostate cancer person-years |
| Colorectal cancer | colca | Malignant colorectal cancer 1-yes,0-no |
| Colorectal cancer person-years | colcayrs | Colon cancer person-years |
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| *Cardiovascular disease (CVD)* |  |  |
| Major cardiovascular events | majorcvd | Major cardiovascular events 1-yes,0-no |
| Major CVD person-years | majryears | Major cardiovascular events person-years |
| Expanded CVD events | imporcvd | Expanded cardiovascular events 1-yes,0-no |
| Expanded CVD person-years | impryears | Expanded cardiovascular events person-years |
| Myocardial infarction (MI) | totmi | Total myocardial infarction 1-yes,0-no |
| MI person-years | miyears | Myocardial infarction events person-years |
| Stroke | totst | Total stroke 1-yes,0-no |
| Stroke person-years | styears | Stroke person-years |
|  |  |  |
| *Other Cardiovascular End Points* |  |  |
| Total coronary heart disease (CHD) | totchd | Total coronary heart disease 1-yes,0-no |
| CHD person-years | chdyears | Coronary heart disease person-years |
| Ischemic stroke | ischemic | Ischemic stroke 1-yes,0-no |
| Ischemic stroke person-years | styears | Same as stroke person-years |
| Hemorrhagic stroke | hemorrhg | Hemorrhagic stroke 1-yes,0-no |
| Hemorrhagic stroke person-years | styears | Same as stroke person-years |
| Percutaneous coronary intervention (PCI) | ptca | Percutaneous coronary intervention (PCI) 1-yes,0-no |
| PCI person-years | ptcayears | PCI person-years |
| Coronary artery bypass graft (CABG) | cabg | Coronary artery bypass graft (CABG) 1-yes,0-no |
| CABG person-years | cabgyears | CABG person-years |
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| *Deaths* |  |  |
| Death from any cause | confdeath | Confirmed death 1-yes,0-no |
| Death from Cancer | cadeath | Death from cancer 1-yes,0-no |
| Death from cardiovascular causes | cvdeath | Death from cardiovascular causes 1-yes,0-no |
| Death from coronary heart disease | chdeath | Death from coronary heart disease 1-yes,0-no |
| Death from myocardial infarction | mideath | Death from myocardial infarction 1-yes,0-no |
| Death from stroke | stdeath | Death from stroke 1-yes,0-no |
| Death person-years | randyrs | Death person-years |
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| **Adverse events** |  |  |
| Gastrointestinal bleeding | reptgbld | Reported gastrointestinal bleeding 1-yes,0-no |
| Gastrointestinal bleeding person-years | gbldyears | Gastrointestinal bleeding person-years |
| Bad taste in month | repttaste | Reported bad taste in mouth 1-yes,0-no |
| Bad taste in mouth person-years | tasteyears | Bad taste in mouth person-years |
| Blood in urine | repturine | Reported blood in urine 1-yes,0-no |
| Blood in urine person-years | urineyears | Blood in urine person-years |
| Constipation | reptconst | Reported constipation 1-yes,0-no |
| Constipation person-years | constyears | Constipation person-years |
| Diarrhea | reptdiarr | Reported diarrhea 1-yes,0-no |
| Diarrhea person-years | diarryears | Diarrhea person-years |
| Easy bruising | reptbruis | Reported easy bruising 1-yes,0-no |
| Easy bruising person-years | bruisyears | Easy bruising person-years |
| Frequent nosebleeds | reptnbld | Reported frequent nosebleeds 1-yes,0-no |
| Frequent nosebleeds person-years | nbldyears | Frequent nosebleeds person-years |
| Hypercalcemia | repthycal | Reported Hypercalcemia 1-yes,0-no |
| Hypercalcemia person- years | hycalyears | Hypercalcemia person- years |
| Parathyroid condition | reptpara | Reported parathyroid condition 1-yes,0-no |
| Parathyroid person- years | parayears | Parathyroid person- years |
| Stomach upset or pain | reptspain | Reported stomach upset or pain 1-yes,0-no |
| Stomach upset or pain person-years | spainyears | Stomach upset or pain person-years |
| Skin rash | reptrash | Reported skin rash 1-yes,0-no |
| Skin rash person-years | rashyears | Skin rash person-years |
| Kidney stones | reptkidst | Reported kidney stones 1-yes,0-no |
| Kidney stones person-years | kidstyears | Kidney stones person-years |
| Kidney failure or dialysis | reptkidf | Reported kidney failure 1-yes,0-no |
| Kidney failure person-years | kidfyears | Kidney failure person-years |
| Increased burping | reptburp | Reported increased burping 1-yes,0-no |
| Increased burping person-years | burpyears | Increased burping person-years |
| Nausea | reptnaus | Reported nausea 1-yes,0-no |
| Nausea person-years | nausyears | Nausea person-years |