**Table 2.** Characteristics of included studies on circulating 25(OH)D and pancreatic cancer mortality.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **First author**  **(Year)** | **Study** type | **Geographic region** | **Sex** | **A**ge (years, mean or median) | **Cases/**  **participants** | **C**irculating 25(OH)D status | **M**easurement of 25(OH)D | **25(OH)D**  **(highest vs. lowest)** | **OR/RR/HR**  **(95% CI)** | **Adjust**ed variables |
| Yuan  (2016) | Cohort | America | M, F | 61.6 | 493/328,852 | Plasma 25(OH)D | The 25(OH)D Enzyme Immunoassay Kit | ≥ 75.0 vs. < 50  (nmol/L) | 0.66 (0.46-0.95) | Age at diagnosis, race, smoking status, month of blood draw, stage at diagnosis, and year of diagnosis, time between blood collection, cancer diagnosis, BMI and history of diabetes |
|
| Weinstein (2018) | Case-control | Europe | M | 58 | 4,616/29,133 | Serum 25(OH)D | LC/MS | ≥ 64.3 vs. < 37.2  (nmol/L) | 0.66 (0.40-1.10) | BMI, smoking, physical activity, serum cholesterol, history of diabetes, family history of cancer, and calendar year of diagnosis |
|
| McGovern (2016) | Cohort | America | M, F | 57 | 1,017/1,222 | Serum 25(OH)D | The institutional electronic medical record system | ≥ 97.5 vs. < 50.0  (nmol/L) | 0.70 (0.40-1.20) | Ethnicity and BMI |
|
| Von Hoff (2021) | Case-control | America | M, F | 66 | 422/861 | Plasma 25(OH)D | LC/MS | ≥ 75.0 vs. < 50.0  (nmol/L) | 0.99 (0.76-1.29) | Age, sex, geographic, site of metastatic disease |
|
| Haas  (2015) | Cohort | Europe | M, F | 69 | 59/1,975 | Serum 25(OH)D | The Elecsys® assay | ≥ 49.8 vs. < 25.0  (nmol/L) | 0.47 (0.20-1.10) | Age, gender, tumor grading, and localization of primary |
|
| Rasmussen (2020) | Case-control | Europe | M, F | 67 | 139/1,267 | Serum 25(OH)D | DiaSorin Liaison 25(OH)D Total Assay | ≥ 50.0 vs. < 25.0  (nmol/L) | 0.65 (0.43-0.96) | Age, gender, BMI, smoking status, alcohol consumption and diabetes mellitus |

25(OH)D: 25-hydroxyvitamin D, OR: odds ratio, RR: risk ratio, HR: hazard ratio, CI: confidence interval, M: male, F: female, LC/MS: Isotope-dilution liquid chromatography tandem-mass spectrometry, BMI: body mass index.