

**Supplementary Table 3 Main characteristics of participants included in this study by uPDI in Prostate, Lung, Colorectal and Ovarian (PLCO) Screening Trial.**

Variables	Q1 (n=18458)	Q2 (n=22459)	Q3 (n=15199)	Q4 (n=17200)	Q5 (n=18098)	P value
Age (y), mean (SD)	62.0 (5.1)	62.2 (5.2)	62.3 (5.2)	62.3 (5.2)	62.2 (5.4)	< 0.001
Sex (n, %)						
Male	9182 (49.7%)	10758 (47.9%)	7029 (46.2%)	7649 (44.5%)	7570 (41.8%)	< 0.001
Female	9276 (50.3%)	11701 (52.1%)	8170 (53.8%)	9551 (55.5%)	10528 (58.2%)	
Arm (n, %)						
Screen	9895 (53.6%)	11514 (51.3%)	7802 (51.3%)	8594 (50.0%)	8839 (48.8%)	< 0.001
Control	8563 (46.4%)	10945 (48.7%)	7397 (48.7%)	8606 (50.0%)	9259 (51.2%)	
Smoking status (n, %)						
Never	8325 (45.1%)	10777 (48.0%)	7489 (49.3%)	8738 (50.8%)	9558 (52.8%)	< 0.001
Current	1587 (8.6%)	1989 (8.9%)	1409 (9.3%)	1597 (9.3%)	1817 (10.0%)	
Former	8539 (46.3%)	9688 (43.1%)	6298 (41.4%)	6860 (39.9%)	6723 (37.1%)	
Drinking status (n, %)						
Never	1340 (7.3%)	1934 (8.6%)	1512 (9.9%)	1938 (11.3%)	2487 (13.7%)	< 0.001
Current	2241 (12.1%)	2940 (13.1%)	2069 (13.6%)	2507 (14.6%)	2964 (16.4%)	
Former	14474 (78.4%)	17075 (76.0%)	11202 (73.7%)	12259 (71.3%)	11969 (66.1%)	
Education (n, %)						
High school and below	4549 (24.6%)	6114 (27.2%)	4324 (28.4%)	5202 (30.2%)	6207 (34.3%)	< 0.001
Undergraduate	6271 (34.0%)	7700 (34.3%)	5279 (34.7%)	5870 (34.1%)	6183 (34.2%)	
Graduate and above	7605 (41.2%)	8597 (38.3%)	5565 (36.6%)	6096 (35.4%)	5672 (31.3%)	
BMI (n, %)						
< 25.0 kg/m <sup>2</sup>	5958 (32.3%)	7707 (34.3%)	5359 (35.3%)	6109 (35.5%)	6606 (36.5%)	< 0.001
≥ 25.0 kg/m <sup>2</sup>	12255 (66.4%)	14463 (64.4%)	9639 (63.4%)	10882 (63.3%)	11230 (62.1%)	
Race (n, %)						
White, Non-Hispanic	17003 (92.1%)	20645 (91.9%)	13897 (91.4%)	15555 (90.4%)	16044 (88.7%)	< 0.001

Other	1446 (7.8%)	1807 (8.0%)	1298 (8.5%)	1639 (9.5%)	2047 (11.3%)	
Marital status (n, %)						
Married	14605 (79.1%)	17904 (79.7%)	12005 (79.0%)	13385 (77.8%)	13572 (75.0%)	< 0.001
Not married	3818 (20.7%)	4509 (20.1%)	3164 (20.8%)	3782 (22.0%)	4500 (24.9%)	
Total energy intake (kcal/d), mean $\pm$ SD	2189.2 (726.3)	1869.1 (665.8)	1674.0 (625.2)	1514.3 (583.4)	1314.4 (550.6)	< 0.001

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uPDI, unhealthy plant-based diet index; y, year; SD, standard deviation; BMI, body mass index