

Suppl 3. Subgroup Analysis Between Four Groups Participants and All-Cause Mortality

Group	Events/total (%)	Model 1 HR (95% CI) ^a	P	Model 2 HR (95% CI) ^b	P
Age (years)					
≤ 59					
NENN group	154/3,981 (3.9)	Ref		Ref	
E group	150/2,243 (6.7)	1.682 (1.343 - 2.106)	< 0.001	1.478 (1.158 - 1.886)	< 0.001
N group	94/1,904 (4.9)	1.217 (0.941 - 1.574)	0.134	1.121 (0.849 - 1.480)	0.419
E + N group	57/792 (7.2)	1.732 (1.277 - 2.350)	< 0.001	1.294 (0.919 - 1.822)	< 0.139
60 - 64					
NENN group	169/2,809 (6.0)	Ref		Ref	
E group	132/1,819 (7.3)	1.171 (0.932 - 1.471)	0.174	1.105 (0.863 - 1.416)	0.428
N group	86/1,488 (5.8)	0.914 (0.704 - 1.185)	0.497	1.024 (1.114 - 2.024)	0.868
E + N group	75/700 (10.7)	1.684 (1.282 - 2.213)	< 0.001	1.501 (1.114 - 2.024)	0.008
65 - 69					
NENN group	129/1,545 (8.3)	Ref		Ref	
E group	138/1,149 (12.0)	1.420 (1.117 - 1.805)	0.004	1.339 (1.022 - 1.754)	0.034
N group	91/902 (10.1)	1.164 (0.889 - 1.522)	0.269	1.229 (0.913 - 1.655)	0.173
E + N group	78/534 (14.6)	1.681 (1.268 - 2.230)	< 0.001	1.556 (1.133 - 2.136)	0.006
70 - 74					
NENN group	91/705 (12.9)	Ref		Ref	
E group	92/608 (15.1)	1.179 (0.882 - 1.576)	0.265	1.090 (0.787 - 1.511)	0.603
N group	54/443 (12.2)	0.918 (0.655 - 1.286)	0.618	1.001 (0.689 - 1.454)	0.996
E + N group	77/327 (24.5)	1.831 (1.350 - 2.482)	< 0.001	1.770 (1.256 - 2.493)	0.001
Sex					
Women					
NENN group	160/3,764 (4.3)	Ref		Ref	
E group	150/2,269 (6.6)	1.474 (1.179 - 1.842)	0.001	1.406 (1.102 - 1.794)	0.006
N group	123/2,079 (5.9)	1.284 (1.014 - 1.625)	0.038	1.318 (1.022 - 1.700)	0.033
E + N group	79/884 (8.9)	1.784 (1.360 - 2.342)	< 0.001	1.751 (1.303 - 2.354)	< 0.001
Men					
NENN group	383/5,276 (7.3)	Ref		Ref	
E group	362/3,550 (10.2)	1.297 (1.123 - 1.498)	< 0.001	1.198 (1.022 - 1.405)	0.026
N group	202/2,658 (7.6)	0.971 (0.81801.151)	0.731	0.992 (0.824 - 1.195)	0.932
E + N group	208/1,469 (14.2)	1.699 (1.433 - 2.014)	< 0.001	1.445 (1.194 - 1.748)	< 0.001
Smoking status					
Former smoker					
NENN group	236/5,020 (4.7)	Ref		Ref	
E group	169/2,643 (6.4)	1.199 (0.984 - 1.462)	0.072	1.219 (0.979 - 1.516)	0.076
N group	137/2,572 (5.3)	1.019 (0.825 - 1.258)	0.862	1.124 (0.892 - 1.416)	0.324
E + N group	111/1,011 (11.0)	1.798 (1.430 - 2.260)	< 0.001	1.798 (1.392 - 2.322)	< 0.001
Current smoker					
NENN group	307/4,020 (7.6)	Ref		Ref	
E group	343/3,176 (10.8)	1.332 (1.142 - 1.555)	< 0.001	1.267 (1.071 - 1.500)	0.006
N group	188/2,165 (8.7)	1.067 (0.889 - 1.280)	0.486	1.063 (0.874 - 1.293)	0.543
E + N group	176/1,342 (13.1)	1.524 (1.264 - 1.836)	< 0.001	1.383 (1.127 - 1.698)	0.002
Smoking, pack-years					
30 - 59					
NENN group	309/6,276 (4.9)	Ref		Ref	
E group	260/3,476 (7.5)	1.408 (1.193 - 1.661)	< 0.001	1.352 (1.126 - 1.623)	0.001
N group	193/3,222 (6.0)	1.108 (0.925 - 1.327)	0.265	1.125 (0.923 - 1.372)	0.243
E + N group	144/1,378 (10.4)	1.805 (1.479 - 2.204)	< 0.001	1.586 (1.265 - 1.988)	< 0.001
60 - 89					
NENN group	155/2,034 (7.6)	Ref		Ref	
E group	154/1,668 (9.2)	1.156 (0.906 - 1.475)	0.244	1.149 (0.919 - 1.436)	0.223
N group	84/1,102 (7.6)	1.056 (0.793 - 1.407)	0.710	0.969 (0.743 - 1.264)	0.816
E + N group	93/690 (13.5)	1.483 (1.117 - 1.969)	0.006	1.578 (1.218 - 2.045)	0.001
60 - 89					
NENN group	79/730 (10.8)	Ref		Ref	
E group	98/675 (14.5)	1.306 (0.971 - 1.757)	0.078	1.155 (0.837 - 1.593)	0.380
N group	48/413 (11.6)	1.020 (0.712 - 1.461)	0.913	1.047 (0.717 - 1.528)	0.814
E + N group	50/285 (17.5)	1.481 (1.037 - 2.116)	0.031	1.403 (0.957 - 2.056)	0.083
Family history of lung cancer					
No					
NENN group	441/7,312 (6.0)	Ref		Ref	
E group	409/4,623 (8.8)	1.374 (1.201 - 1.572)	< 0.001	1.253 (1.079 - 1.455)	0.003
N group	256/3,817 (6.7)	1.034 (0.886 - 1.206)	0.675	1.045 (0.883 - 1.237)	0.606
E + N group	223/1,855 (12.0)	1.718 (1.460 - 2.020)	< 0.001	1.510 (1.260 - 1.810)	< 0.001
Yes					
NENN group	102/1,728 (5.9)	Ref		Ref	
E group	103/1,196 (8.6)	1.328 (1.009 - 1.748)	0.043	1.277 (0.949 - 1.718)	0.107
N group	69/920 (7.5)	1.159 (0.853 - 1.574)	0.346	1.284 (0.924 - 1.783)	0.136
E + N group	64/498 (12.9)	1.852 (1.350 - 2.540)	< 0.001	1.583 (1.120 - 2.238)	0.009

Model 1a: adjusted for age. Model 2b: adjusted for age, gender, race/ethnicity, education level, marital status, smoking status, smoking pack-year, BMI and family history of lung cancer. NENN group: non-emphysema and non-nodules; E group: emphysema without nodules; N group: nodules without emphysema; E + N group: nodules with emphysema.