

Appendix S1.

Unmeasured confounder analysis was performed to assess whether covariates that were not measured, such as smoking or body mass index, would have had the potential to materially affect the results had they been available. Using the framework presented by Lin et al. (29), the association between a hypothetical unmeasured confounder and the outcome of interest necessary to: (i) result in a non-significant association between exposure and outcome; and (ii) result in no association (hazard ratio; HR=1) between exposure and outcome under different assumptions of prevalence of the risk factor in the exposed and unexposed groups.

Size of confounding effect necessary to nullify the association between mild psoriasis and specific causes of death and all-cause mortality

Prevalence in mild psoriasis	Prevalence in referents	Required HR unity	Required HR Ns
<i>Cardiovascular disease</i>			
20%	10%	1.8	1.0*
30%	10%	1.0*	1.0*
40%	10%	1.0*	1.0*
<i>Chronic lower respiratory disease</i>			
20%	10%	3.6	1.0*
30%	10%	1.8	1.0*
40%	10%	1.2	1.0*
<i>Kidney disease</i>			
20%	10%	12.0	3.6
30%	10%	6.0	1.8
40%	10%	4.0	1.2
<i>Severe infection</i>			
20%	10%	4.1	1.1
30%	10%	2.1	1.0*
40%	10%	1.4	1.0*
<i>Liver disease</i>			
20%	10%	10.0	3.4
30%	10%	5.0	1.7
40%	10%	3.3	1.1
<i>All-cause mortality</i>			
20%	10%	1.5	1.0*
30%	10%	1.0*	1.0*
40%	10%	1.0*	1.0*

*Below 1.0 using the approximation presented by Lin et al. (29).

Size of confounding effect necessary to nullify the association between severe psoriasis and specific causes of death and all-cause mortality

Prevalence in psoriasis	Prevalence in general population	Required HR unity	Required HR ns
<i>Cardiovascular disease</i>			
20%	10%	5.2	2.1
30%	10%	2.6	1.0*
40%	10%	1.7	1.0*
<i>Cancer</i>			
20%	10%	3.2	1.0*
30%	10%	1.6	1.0*
40%	10%	1.1	1.0*
<i>Liver disease</i>			
20%	10%	32.6	8.7
30%	10%	16.3	4.3
40%	10%	10.9	2.9
<i>Other causes</i>			
20%	10%	12.5	5.9
30%	10%	6.2	2.9
40%	10%	4.2	2.0
<i>Missing cause of death</i>			
20%	10%	24.2	2.4
30%	10%	12.1	1.2
40%	10%	8.1	1.0*
<i>All-cause mortality</i>			
20%	10%	5.6	3.6
30%	10%	2.8	1.8
40%	10%	1.9	1.2

*Below 1.0 using the approximation presented by Lin et al. (29).