

**Supplemental Table 1: Cox proportional hazards models testing differential impact of sex and disease course on multiple sclerosis mortality**

Characteristic	HR <sup>1</sup>	95% CI <sup>1</sup>	p-value
<b>Sample</b>			
NZ population	—	—	
MS cohort	2.08	1.82, 2.39	<0.001
<b>Disease course</b>			
Relapsing onset	—	—	
Progressive onset	0.85	0.68, 1.07	0.2
<b>Sample × Disease course</b>			
MS cohort × Progressive onset	1.52	1.16, 1.99	0.002

<sup>1</sup>HR = Hazard Ratio, CI = Confidence Interval

Characteristic	HR <sup>1</sup>	95% CI <sup>1</sup>	p-value
<b>Sample</b>			
NZ population	—	—	
MS cohort	2.12	1.81, 2.49	<0.001
<b>Sex</b>			
Female	—	—	
Male	1.55	1.20, 2.01	<0.001
<b>Disease course</b>			
Relapsing onset	—	—	
Progressive onset	0.82	0.62, 1.09	0.2
<b>Sample × sex</b>			
MS cohort × Male	0.93	0.68, 1.29	0.7
<b>Sample × Disease course</b>			
MS cohort × Progressive onset	1.39	0.99, 1.95	0.059
<b>Sex × Disease course</b>			
Male × Progressive onset	0.89	0.56, 1.43	0.6
<b>Sample × sex × Disease course</b>			
MS cohort × Male × Progressive onset	1.35	0.76, 2.39	0.3

<sup>1</sup>HR = Hazard Ratio, CI = Confidence Interval