### **ONLINE SUPPLEMENT**

## LUNG FUNCTION TRAJECTORY AND BIOMARKERS

## IN THE TASMANIAN LONGITUDINAL HEALTH STUDY

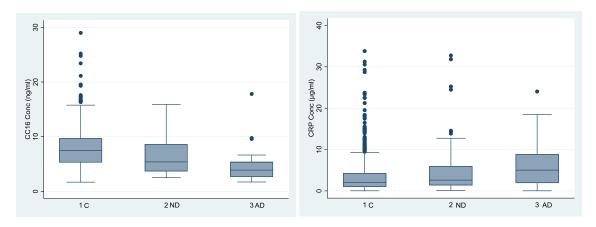
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# **Lung function tests**

Pre- and post-BD spirometry were performed according to international standards (1). Spirometry z-scores were derived from the Global Lung Initiative (GLI) reference equations (2).

Table S1. Biomarker values (median [IQR]) in C, AD and ND participants (C included both smokers and non-smokers).

		Controls (C) (N=1398)		Accelerated decline (AD) (N=60)		Normal decline (ND) (N=94)		P-value		
		n	Median [IQR]	n	Median [IQR]	n	Median [IQR]	C vs.	C vs. ND	AD vs. ND
CRP										
	45 years	437	2.4 [1.1-5.1]	37	3.2 [1.6-8.6]	45	2.6 [1.8-6.0]	0.05	0.23	0.36
	53 years	1286	2.3 [1.1-4.8]	55	5.1 [1.9, 10.2]	84	2.6 [1.3-5.9]	< 0.001	0.27	0.01
CC16										
	45 years	413	6.8 [4.9-8.9]	33	3.9 [2.3-5.9]	43	5.6 [4.2-7.6]	< 0.001	0.02	0.003
	53 years	410	7.5 [5.3-9.7]	34	3.9 [2.6-5.5]	42	5.4 [3.7-8.6]	<0.001	0.002	0.005



**Figure S1**. CC16 and CRP levels at 53 years across three groups. AD=accelerated decline. ND=Early low-normal decline; C=controls

## Reference

- 1. Miller MR, Hankinson J, Brusasco V, et al. Standardisation of spirometry. *Eur Respir J* 2005; 26: 319-38.
- 2. Quanjer PH, Stanojevic S, Cole TJ, et al. Multi-ethnic reference values for spirometry for the 3–95-yr age range: the global lung function 2012 equations. *Eur Respir J* 2012; 40: 1324-43.