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] | C vs. AD | C vs. ND | AD vs. ND |
| **CRP**          |                        |                                 |                             |           |         |         |           |
| 45 years         | 437                    | 2.4 [1.1-5.1]                   | 37                          | 3.2 [1.6-8.6] |        | 0.05     | 0.23      | 0.36      |
| 53 years         | 1286                   | 2.3 [1.1-4.8]                   | 55                          | 5.1 [1.9, 10.2] |        | <0.001   | 0.27      | 0.01      |
| **CC16**         |                        |                                 |                             |           |         |         |           |
| 45 years         | 413                    | 6.8 [4.9-8.9]                   | 33                          | 3.9 [2.3-5.9] |        | <0.001   | 0.02      | 0.003     |
| 53 years         | 410                    | 7.5 [5.3-9.7]                   | 34                          | 3.9 [2.6-5.5] |        | <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.