**Supplementary table 1: Descriptive statistics at baseline for patients enrolled in the PSM-COPD trial**

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| **Baseline data**  | **Patients in FIS (n=151)** | **Patients not in FIS but live with other adults (n=252)** | **Patients who live alone (n=149)** |
| **Demographic characteristics** |
| Sex (female), n (%) | 48 (31.8) | 83 (32.9) | 66 (44.3) |
| Age (years, mean (SD))IMD | 70.2 (7.71)18.0 (13.8) | 69.7 (8.67)20.1 (14.1) | 72.4 (8.27)22.2 (14.9) |
| Ethnicity (white) n (%) | 141 (93.4) | 243 (96.4) | 137 (92.0) |
| Currently married/civil partnership n (%) | 139 (92.1) | 217 (86.1) | 4 (2.7) |
| Household size (two-person, n (%))  | 124 (85.6) | 193 (78.8) | 0 (0.0) |
| **Clinical characteristics** |
| MET minutes per week (median, interquartile range)  | 2205.5 (819 to 4536) | 2445 (742 to 4782) | 1893 (594 to 4158) |
| HADS Anxiety score Depression score (mean (SD)) | 3.95 (3.36)3.13 (2.53) | 4.09 (3.57)2.73 (2.42) | 4.04 (4.05)3.11 (3.30) |
| EQ-5D-5L (mean (SD)) | 0.90 (0.12) | 0.91 (0.11) | 0.87 (0.15) |
| MRC Scale 1 n (%) 2 n (%) | 41 (27.3)106 (70.1) | 64 (29.2)153 (69.8) | 38 (27.9)93 (68.4) |
| SGRQ-C (mean (SD)) | 28.8 (15.1) | 27.9 (13.6) | 29.3 (15.4) |
| Current smokers n (%) | 24 (15.9) | 54 (21.4) | 44 (29.5) |

\*HADS is the Hospital Anxiety and Depression Scale ranging from 0 to 21 (higher score indicates greater symptoms of anxiety or depression) \*MET minutes is a measure of participants’ metabolic equivalents (i.e. their energy expenditure) \*IMD is the index of multiple deprivation for a postcode. Score of <9 indicates the postcode is within the least deprived quintile in the UK, score of >34 indicates the most deprived quintile

**Supplementary table 2: Baseline characteristics for full household member sample, sub-sample of household members who responded at follow-up and sub-sample lost to follow-up**

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| **Household member characteristic** | **Full sample at baseline** | **Sub-sample at follow-up** | **Lost to follow-up** |
|  **Demographic characteristics** Female (n, %)Age (years, mean (SD))IMDRelationship to patient (spouse, n (%)) EQ-5D-5L, (n, mean (SD))Household size (two-person, n (%))**Health behaviours**Smoker (n, (%))Physical activity- Low (n (%))  - Moderate (n (%)) - High (n (%)) |  **(n=153)** 110 (72.4) 65.7 (11.0) 17.9 (13.7)142 (93.4) 0.85 (0.20)125 (85.0)20 (13.3)35 (30.5)40 (34.8)40 (34.8)  | **(n=129)**94 (72.9)66 (10.1)17.6 (13.1)122 (94.6)0.86 (0.19)106 (84.8)16 (12.6)29 (30.5)32 (33.7)34 (35.8) | **(n=24)**16 (69.5)64.2 (15.5)19.6 (16.8)20 (87.0)0.80 (0.22)19 (86.1)4 (17.4)6 (30.0)8 (40.0)6 (30.0) |

\*IMD is the index of multiple deprivation for a postcode. Score of <9 indicates the postcode is within the least deprived quintile in the UK, score of >34 indicates the most deprived quintile.