**Supplementary material**

**Supplementary Table 1. Characteristics of the patients in the AD and DLB groups at baseline and on follow-up**

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| **Characteristics** | **Follow-up at AD group** |
| **Baseline (N=78)** | **1 year (N=78)** | **2 years (N=71)** | **3 years (N=65)** | **4 years (N=56)** | **5 years (N=37)** |
| **Sex, (%)** |  |  |  |  |  |  |
| Males | 18 (23.1%) | 18 (23.1%) | 18 (25.4%) | 15 (23.1%) | 11 (19.6%) | 7 (18.9%) |
| Females | 60 (76.9%) | 60 (76.9%) | 53 (74.6%) | 50 (76.9%) | 45 (80.4%) | 30 (81.1%) |
| **Age, mean (SD)** | 75.5 (6.95) | 76.5 (6.95) | 76.8 (6.68) | 77.6 (6.70) | 78.1 (6.84) | 79.4 (5.87) |
| **Temporal Muscle Thickness (TMT), (mm), mean (SD)** | 6.31 (1.66) |  |  |  |  |  |
| **BMI, (kg/m2), mean (SD)** | 24.2 (3.97) | 23.9 (3.95) | 24.6 (4.01) | 25.0 (4.21) | 25.0 (3.97) | 25.0 (3.61) |
| **Mini mental State Examination (MMSE), mean (SD)** | 23.6 (2.39) | 21.3 (3.90) | 19.1 (5.44) | 15.8 (6.99) | 13.3 (7.96) | 10.7 (8.39) |
| **Cumulative Illness Rating Scale (CIRS), mean (SD)** | 5.17 (1.94) | 5.17 (1.94) | 5.04 (1.91) | 4.95 (1.86) | 4.77 (1.68) | 4.76 (1.66) |
| **Rapid Disability Rating Scale (RDRS), mean (SD)** | 1.57 (0.511) | 1.97 (0.623) | 2.22 (0.600) | 2.53 (0.615) | 2.78 (0.620) | 2.85 (0.533) |
| **Moderate malnutrition, (%) ᵃ** |   |   |   |   |   |   |
| No | 55 (74.3%) | 48 (73.8%) | 40 (76.9%) | 42 (75%) | 37 (78.7%) | 30 (88.2%) |
| Yes | 19 (25.7%) | 17 (26.2%) | 12 (23.1%) | 14 (25%) | 10 (21.3%) | 4 (11.8%) |
| **Severe malnutrition, (%) ᵃ** |   |   |   |   |   |   |
| No | 65 (87.8%) | 55 (84.6%) | 44 (84.6%) | 49 (87.5%) | 41 (87.2%) | 32 (94.1%) |
| Yes | 9 (12.2%) | 10 (15.4%) | 8 (15.4%) | 7 (12.5%) | 6 (12.8%) | 2 (5.9%) |
| **characteristics** | **Follow-up at DLB group** |
| **Baseline (N=33)** | **1 year (N=33)** | **2 years (N=32)** | **3 years (N=27)** | **4 years (N=20)** | **5 years (N=10)** |
| **Sex, (%)** |  |  |  |  |  |  |
| Males | 21 (63.6%) | 21 (63.6%) | 20 (62.5%) | 18 (66.7%) | 11 (55.0%) | 7 (70.0%) |
| Females | 12 (36.4%) | 12 (36.4%) | 12 (37.5%) | 9 (33.3%) | 9 (45.0%) | 3 (30.0%) |
| **Age, mean (SD)** | 75.8 (6.85) | 76.8 (6.85) | 77.6 (6.91) | 78.4 (5.59) | 79.2 (6.15) | 78.5 (4.11) |
| **Temporal Muscle Thickness (TMT), (mm), mean (SD)** | 6.74 (1.69) |  |  |  |  |  |
| **BMI, (kg/m2), mean (SD)** | 25.2 (4.33) | 24.8 (4.29) | 24.3 (3.87) | 24.6 (4.80) | 25.0 (3.52) | 25.3 (5.10) |
| **Mini mental State Examination (MMSE), mean (SD)** | 23.5 (2.98) | 21.4 (5.93) | 16.1 (7.57) | 15.1 (9.36) | 13.9 (8.21) | 12.6 (11.0) |
| **Cumulative Illness Rating Scale (CIRS), mean (SD)** | 6.58 (2.75) | 6.58 (2.75) | 6.50 (2.76) | 6.52 (2.28) | 7.00 (2.21) | 6.70 (1.83) |
| **Rapid Disability Rating Scale (RDRS), mean (SD)** | 1.85 (0.560) | 2.07 (0.810) | 2.75 (0.696) | 3.00 (0.619) | 3.05 (0.507) | 3.36 (0.420) |
| **Moderate malnutrition, (%) ᵃ** |   |   |   |   |   |   |
| No | 21 (75.0%) | 17 (73.9%) | 17 (68%) | 13 (72.2%) | 10 (76.9%) | 6 (75%) |
| Yes | 7 (25.0%) | 6 (26.1%) | 8 (32%) | 5 (27.8%) | 3 (23.1%) | 2 (25%) |
| **Severe malnutrition, (%) ᵃ** |   |   |   |   |   |   |
| No | 65 (87.8%) | 55 (84.6%) | 44 (84.6%) | 49 (87.5%) | 41 (87.2%) | 32 (94.1%) |
| Yes | 9 (12.2%) | 10 (15.4%) | 8 (15.4%) | 7 (12.5%) | 6 (12.8%) | 2 (5.9%) |
| ᵃ Missing values were excluded |  |  |  |  |  |  |

**Supplementary Table 2. TMT mean according to sex and diagnosis**

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| --- | --- | --- | --- | --- |
|  | **AD** | **P-value** | **DLB** | **P-value** |
| **Males** | **Females** | **Males** | **Females** |
| **(N=18)** | **(N=60)** | **(N=21)** | **(N=12)** |
| **Temporal Muscle Thickness (TMT) (mm), mean (SD)** | **6.75 (1.86)** | **6.18 (1.59)** | **0,246** | **7.10 (1.68)** | **6.12 (1.57)** | **0,107** |

**Supplementary figure 1. Flowchart of the final sample selection**

