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| ***Supplemental table 1. Relationship between hallucinations/misidentification delusions and cognitive impairment.*** | | | | | | | | |
| **Symptom** | **Mini-Mental State Examination score (MMSE)** | | | | | | | |
| **DLB** | | | | **AD** | | | |
| **MMSE>20** | **MMSE 10-20** | **MMSE<10** | ***P value*** | **MMSE>20** | **MMSE 10-20** | **MMSE<10** | ***P value*** |
| **Visual hallucinations** | 14/33\*  (42.4%) | 17/36\*\*\*  (47.2%) | 9/11\*  (81.8 %) | *0.0514* | 3/24\*  (12.5 %) | 5/50\*\*\*  (10.0%) | 3/11\*  (27.3%) | 0.3830 |
| **Auditory hallucinations** | 2/33  (6.1%) | 7/36\*\*  (19.4%) | 5/11\* (45.4%) | **0.0034** | 0/24  (0.0%) | 1/50\*\*  (2.0%) | 0/11\*  (0.0%) | 0.8050 |
| **Delusional misidentifications** | 8/33  (24.2%) | 17/36\*\*\*  (47.2%) | 9/11  (81.8%) | **0.0007** | 4/24  (16.7%) | 5/50\*\*\*  (10.0%) | 6/11  (54.5%) | **0.0499** |
| \* *p*<0.05, \*\* *p*<0.01, \*\*\* *p*<0.0001, Pearson’s *χ2* with Fisher’s exact test between DLB and AD within the same MMSE interval. Bold-faced font indicates statistically significant results in the Pearson’s *χ2* for trend within the DLB or the AD groups. Italic font indicates trend towards statistical significance. | | | | | | | | |

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| ***Supplemental table 2. Relationship between hallucinations/misidentification delusions and functional impairment.*** | | | | | | | | | |
| **Symptom** | | **Interview for Deterioration in Daily Living Activities in Dementia (IDDD)** | | | | | | | |
| **DLB** | | | | **AD** | | | |
| **IDDD<41** | **IDDD 42-55** | **IDDD >56** | ***P value*** | **IDDD<41** | **IDDD**  **42-55** | **IDDD >56** | ***P value*** |
| **Visual hallucinations** | 7/25  (28.0%) | 13/27\*\*  (48.1%) | 20/28\*\*\*  (71.4%) | **0.0016** | 2/30  (6.7%) | 3/28\*\*  (10.7%) | 6/27\*\*\*  (22.2%) | *0.0831* |
| **Auditory hallucinations** | 0/25  (0.0%) | 7/27\*  (25.9%) | 7/28\*  (25.0%) | **0.0191** | 0/30  (0.0%) | 1/28\*  (3.6%) | 0/27\*  (0.0%) | 0.9654 |
| **Delusional misidentifications** | 1/25  (4.0%) | 12/27\*  (44.4%) | 21/28\*\*  (75.0%) | **<0.0001** | 2/30  (6.7%) | 5/28\*  (17.8%) | 8/27\*\*  (29.6%) | **0.0232** |
| \* *p*<0.05, \*\* *p*<0.01, \*\*\* *p*<0.0001, Pearson’s *χ2* with Fisher’s exact test between DLB and AD within the same IDDD interval. Bold-faced font indicates statistically significant results in the Pearson’s *χ2* for trend. Italic font indicates trend towards statistical significance. | | | | | | | | |

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| ***Supplemental table 3. Demographic characteristics of DLB and AD groups by MMSE and IDDD interval.*** | | | | | | |
|  | **DLB** | | | **AD** | | |
| **MMSE>20** | **MMSE 10-20** | **MMSE<10** | **MMSE>20** | **MMSE 10-20** | **MMSE<10** |
| **N (%)** | | 33 (41) | 36 (45) | 11 (13) | 24 (28) | 50 (58) | 11 (12) |
| **Gender, n female (%)** | | 12 (15) | 16 (20) | 8 (10) | 12 (14) | 35 (41) | 6 (7) |
| **Age, y** | | 75±5.8 | 77±3.3 | 79±2.2 | 73±6.4 | 72±6.9 | 71±7.4 |
|  | | **IDDD<41** | **IDDD 42-55** | **IDDD>56** | **IDDD<41** | **IDDD 42-55** | **IDDD>56** |
| **N (%)** | | 25 (31) | 27 (33) | 28 (35) | 30 (35) | 28 (32) | 27 (31) |
| **Gender, n female (%)** | | 9 (11) | 16 (20) | 11 (13) | 18 (21) | 23 (27) | 12 (14) |
| **Age, y** | | 75±6.2 | 75±5.8 | 79±3.8 | 72±6.0 | 74±7.3 | 71±6.9 |