S4 File.
Charts for BPSD in Frontotemporal lobar degeneration by disease severity
Delusions

Severity

<table>
<thead>
<tr>
<th></th>
<th>Severe</th>
<th>Moderate</th>
<th>Mild</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDR0.5 (N=1)</td>
<td>50.0</td>
<td>40.0</td>
<td>100.0</td>
</tr>
<tr>
<td>CDR1 (N=4)</td>
<td>50.0</td>
<td>60.0</td>
<td>100.0</td>
</tr>
</tbody>
</table>

Frequency

<table>
<thead>
<tr>
<th></th>
<th>Very often</th>
<th>Often</th>
<th>Sometimes</th>
<th>Rarely</th>
<th>Never</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDR0.5 (N=35)</td>
<td>2.9%</td>
<td>5.7%</td>
<td>2.9%</td>
<td>8.0%</td>
<td>71.4%</td>
</tr>
<tr>
<td>CDR1 (N=35)</td>
<td>97.1%</td>
<td>88.6%</td>
<td>80.0%</td>
<td>71.4%</td>
<td>8.0%</td>
</tr>
<tr>
<td>CDR2 (N=25)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CDR3 (N=7)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

Caregiver distress

<table>
<thead>
<tr>
<th></th>
<th>Extreme</th>
<th>Severe</th>
<th>Moderate</th>
<th>Mild</th>
<th>Minimal</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDR0.5 (N=1)</td>
<td>100.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CDR1 (N=3)</td>
<td></td>
<td>66.7%</td>
<td>33.3%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CDR2 (N=3)</td>
<td></td>
<td>66.7%</td>
<td>33.3%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CDR3 (N=2)</td>
<td></td>
<td></td>
<td></td>
<td>50.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Hallucinations

Frequency

- Very often
- Often
- Sometimes
- Rarely
- Never

Severity

- Severe
- Moderate
- Mild

Caregiver distress

- Extreme
- Severe
- Moderate
- Mild
- Minimal
- None

CDR0.5 (N=0)  CDR1 (N=4)  CDR2 (N=0)  CDR3 (N=2)

CDR0.5 (N=35)  CDR1 (N=35)  CDR2 (N=25)  CDR3 (N=7)
Agitation

Severity

<table>
<thead>
<tr>
<th>CDR0.5 (N=13)</th>
<th>CDR1 (N=18)</th>
<th>CDR2 (N=15)</th>
<th>CDR3 (N=2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>84.6%</td>
<td>61.1%</td>
<td>40.0%</td>
<td>50.0%</td>
</tr>
<tr>
<td>15.4%</td>
<td>22.2%</td>
<td>40.0%</td>
<td>50.0%</td>
</tr>
<tr>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
</tr>
</tbody>
</table>

Frequency

<table>
<thead>
<tr>
<th>CDR0.5 (N=35)</th>
<th>CDR1 (N=35)</th>
<th>CDR2 (N=25)</th>
<th>CDR3 (N=7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>84.6%</td>
<td>20.0%</td>
<td>11.4%</td>
<td>14.3%</td>
</tr>
<tr>
<td>15.4%</td>
<td>62.9%</td>
<td>8.6%</td>
<td>20.0%</td>
</tr>
<tr>
<td>0%</td>
<td>71.4%</td>
<td>48.6%</td>
<td>40.0%</td>
</tr>
</tbody>
</table>

Caregiver distress

<table>
<thead>
<tr>
<th>CDR0.5 (N=11)</th>
<th>CDR1 (N=15)</th>
<th>CDR2 (N=13)</th>
<th>CDR3 (N=2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>84.6%</td>
<td>27.3%</td>
<td>13.3%</td>
<td>27.3%</td>
</tr>
<tr>
<td>15.4%</td>
<td>26.7%</td>
<td>26.7%</td>
<td>7.7%</td>
</tr>
<tr>
<td>0%</td>
<td>50.0%</td>
<td>50.0%</td>
<td>50.0%</td>
</tr>
</tbody>
</table>
Depression

Severity

- CDR0.5 (N=10)
  - Severe: 10.0%
  - Moderate: 80.0%
  - Mild: 10.0%

- CDR1 (N=11)
  - Severe: 9.1%
  - Moderate: 81.8%
  - Mild: 9.1%

- CDR2 (N=4)
  - Severe: 25.0%

- CDR3 (N=0)
  - Severe: 0%

Frequency

- CDR0.5 (N=35)
  - Very often: 5.7%
  - Often: 11.4%
  - Sometimes: 8.6%
  - Rarely: 4.0%
  - Never: 5.7%

- CDR1 (N=35)
  - Very often: 8.6%
  - Often: 6.8%
  - Sometimes: 5.7%
  - Rarely: 5.7%
  - Never: 8.6%

- CDR2 (N=25)
  - Very often: 4.0%
  - Often: 84.0%
  - Sometimes: 11.4%
  - Rarely: 11.4%
  - Never: 4.0%

- CDR3 (N=7)
  - Very often: 4.0%
  - Often: 100.0%
  - Sometimes: 100.0%
  - Rarely: 100.0%
  - Never: 100.0%

Caregiver distress

- CDR0.5 (N=9)
  - Extreme: 22.2%
  - Severe: 22.2%
  - Moderate: 33.3%

- CDR1 (N=8)
  - Extreme: 12.5%
  - Severe: 12.5%
  - Moderate: 62.5%

- CDR2 (N=4)
  - Extreme: 25.0%
  - Severe: 12.5%
  - Moderate: 50.0%

- CDR3 (N=0)
  - Extreme: 0%
  - Severe: 0%
  - Moderate: 0%
Anxiety

**Severity**
- CDR0.5 (N=8): 12.5% Severe, 20.0% Moderate, 87.5% Mild
- CDR1 (N=10): 8.3% Severe, 28.6% Moderate, 71.4% Mild
- CDR2 (N=12): 8.3% Severe, 57.1% Moderate, 40.0% Mild
- CDR3 (N=2): 8.6% Severe, 50.0% Moderate, 20.0% Mild

**Caregiver distress**
- CDR0.5 (N=5): 40.0% Extreme, 50.0% Severe, 20.0% Moderate, 50.0% None
- CDR1 (N=7): 14.3% Extreme, 30.0% Severe, 28.6% Moderate, 71.4% None
- CDR2 (N=10): 40.0% Extreme, 20.0% Severe, 57.1% Moderate, 30.0% None
- CDR3 (N=2): 20.0% Extreme, 50.0% Severe, 40.0% Moderate, 50.0% None
Euphoria

Severity

Caregiver distress
Apathy

Severity

Caregiver distress

Frequency

Severity

Caregiver distress

Frequency
Disinhibition

Severity

- CDR0.5 (N=12): 25.0% Severe, 75.0% Mild
- CDR1 (N=17): 75.0% Severe, 25.0% Mild
- CDR2 (N=15): 46.7% Severe, 53.3% Mild
- CDR3 (N=1): 100.0% Severe

Caregiver distress

- CDR0.5 (N=9): 11.1% Extreme, 22.2% Severe, 44.4% Moderate, 22.2% Mild
- CDR1 (N=14): 22.2% Extreme, 14.3% Severe, 35.7% Moderate, 35.7% Mild
- CDR2 (N=12): 33.3% Extreme, 14.3% Severe, 33.3% Moderate, 33.3% Mild
- CDR3 (N=1): 100.0% None

Frequency

- CDR0.5 (N=35): 2.9% Very often, 11.4% Often, 65.7% Sometimes, 20.0% Rarely, 14.3% Never
- CDR1 (N=35): 5.7% Very often, 14.3% Often, 51.4% Sometimes, 8.0% Rarely, 8.0% Never
- CDR2 (N=25): 8.0% Very often, 20.0% Often, 40.0% Sometimes, 8.0% Rarely, 8.0% Never
- CDR3 (N=7): 85.7% Never
Irritability

**Severity**

- CDR0.5 (N=6): 100.0%
  - Severe: 16.7%
  - Moderate: 22.2%
  - Mild: 61.1%

- CDR1 (N=18): 100.0%
  - Severe: 38.5%
  - Moderate: 15.4%

- CDR2 (N=13): 100.0%
  - Severe: 33.3%
  - Moderate: 25.0%
  - Mild: 9.1%

- CDR3 (N=1): 100.0%
  - Severe: 16.7%
  - Moderate: 31.3%
  - Mild: 27.3%
  - None: 6.3%

**Caregiver distress**

- CDR0.5 (N=6): 100.0%
  - Extreme: 33.3%
  - Severe: 12.5%

- CDR1 (N=18): 100.0%
  - Extreme: 25.0%
  - Severe: 27.3%

- CDR2 (N=13): 100.0%
  - Extreme: 36.4%
  - Severe: 27.3%

- CDR3 (N=1): 100.0%
  - Extreme: 100.0%

**Frequency**

- CDR0.5 (N=35): 100.0%
  - Very often: 8.6%
  - Often: 28.6%
  - Sometimes: 9.7%
  - Rarely: 4.0%
  - Never: 85.7%

- CDR1 (N=35): 100.0%
  - Very often: 24.0%
  - Often: 20.0%
  - Sometimes: 5.7%
  - Rarely: 4.0%
  - Never: 8.6%

- CDR2 (N=25): 100.0%
  - Very often: 14.3%
  - Often: 48.0%
  - Sometimes: 8.6%
  - Rarely: 4.0%
  - Never: 5.7%

- CDR3 (N=7): 100.0%
  - Very often: 82.9%
  - Often: 48.6%
  - Sometimes: 28.6%
  - Rarely: 20.0%
  - Never: 8.6%
Aberrant motor behavior

**Severity**

- CDR0.5 (N=10):
  - Severe: 20.0%
  - Moderate: 61.5%
  - Mild: 20.0%
  - None: 15.4%
- CDR1 (N=13):
  - Severe: 23.1%
  - Moderate: 46.7%
  - Mild: 20.0%
  - None: 15.4%
- CDR2 (N=15):
  - Severe: 46.7%
  - Moderate: 33.3%
  - Mild: 20.0%
  - None: 25.0%
- CDR3 (N=4):
  - Severe: 50.0%
  - Moderate: 25.0%
  - Mild: 25.0%
  - None: 25.0%

**Frequency**

- CDR0.5 (N=35):
  - Very often: 17.1%
  - Often: 8.6%
  - Sometimes: 5.7%
  - Rarely: 14.3%
  - Never: 42.9%
- CDR1 (N=35):
  - Very often: 28.6%
  - Often: 62.9%
  - Sometimes: 8.0%
  - Rarely: 14.3%
  - Never: 42.9%
- CDR2 (N=25):
  - Very often: 52.0%
  - Often: 40.0%
  - Sometimes: 8.0%
  - Rarely: 14.3%
  - Never: 42.9%
- CDR3 (N=7):
  - Very often: 42.9%
  - Often: 42.9%
  - Sometimes: 14.3%
  - Rarely: 8.0%
  - Never: 8.0%

**Caregiver distress**

- CDR0.5 (N=10):
  - Extreme: 14.3%
  - Severe: 28.6%
  - Moderate: 20.0%
  - Minimal: 42.9%
  - None: 25.0%
- CDR1 (N=13):
  - Extreme: 20.0%
  - Severe: 20.0%
  - Moderate: 10.0%
  - Minimal: 41.7%
  - None: 50.0%
- CDR2 (N=15):
  - Extreme: 16.7%
  - Severe: 8.3%
  - Moderate: 41.7%
  - Minimal: 50.0%
  - None: 25.0%
- CDR3 (N=4):
  - Extreme: 25.0%
  - Severe: 25.0%
  - Moderate: 25.0%
  - Minimal: 25.0%
  - None: 25.0%
Sleep disturbances

Severity

Caregiver distress

Frequency

- Very often
- Often
- Sometimes
- Rarely
- Never

Severity:
- CDR0.5 (N=6): 100.0% (Mild), 25.0% (Moderate), 8.3% (Severe)
- CDR1 (N=4): 25.0% (Mild), 50.0% (Moderate), 25.0% (Severe)
- CDR2 (N=12): 50.0% (Mild), 41.7% (Moderate), 8.3% (Severe)
- CDR3 (N=4): 25.0% (Mild), 50.0% (Moderate), 25.0% (Severe)

Caregiver distress:
- CDR0.5 (N=6): 16.7% (Extreme), 25.0% (Severe), 25.0% (Moderate), 25.0% (Mild), 25.0% (Minimal)
- CDR1 (N=4): 83.3% (Extreme), 50.0% (Severe), 16.7% (Moderate), 8.3% (Mild), 25.0% (Minimal)
- CDR2 (N=12): 25.0% (Extreme), 33.3% (Severe), 16.7% (Moderate), 16.7% (Mild), 25.0% (Minimal)
- CDR3 (N=4): 25.0% (Extreme), 25.0% (Severe), 25.0% (Moderate), 25.0% (Mild), 25.0% (Minimal)