Supplementary Online Content


eTable 1. Migraine with aura
eTable 2. Transient focal neurological deficits without headache
eTable 3. Rapidly progressive coma triggered by minor trauma

This supplementary material has been provided by the authors to give readers additional information about their work.
### eTable 1. Migraine with aura

<table>
<thead>
<tr>
<th>Subject/Gender/Age (yrs)</th>
<th>Onset, Remission, Peak (yrs)</th>
<th>Lifetime occurrence (no. episodes)</th>
<th>Duration (mins)</th>
<th>Aura</th>
<th>Headache</th>
<th>Accompanying symptoms</th>
<th>Precipitating factors</th>
</tr>
</thead>
<tbody>
<tr>
<td>II:11/M/73</td>
<td>23, 50</td>
<td>&gt;30</td>
<td>15-30</td>
<td>Scintillating scotoma; Sensitive; Motor; Apathetic Flickering light; Sensitive; Motor;</td>
<td>Throbbing</td>
<td>Left</td>
<td>Severe</td>
</tr>
<tr>
<td></td>
<td>(30-50)</td>
<td>20-20</td>
<td></td>
<td>F, T, LL,</td>
<td>Right</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Tr, F, T, LL, Tr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>II:14/F/69</td>
<td>19 (29-35)</td>
<td>100</td>
<td>20-25</td>
<td>Blurred vision; Sensitive; Motor; Apathetic Scintillating scotoma</td>
<td>Throbbing</td>
<td>Bilateral</td>
<td>Severe</td>
</tr>
<tr>
<td></td>
<td>18 (22-25)</td>
<td>&gt;10</td>
<td>15-30</td>
<td>F, T, LL,</td>
<td>Right</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Tr, F, T, LL, Tr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>III:27/F/40</td>
<td>16 (16-30)</td>
<td>&gt;10</td>
<td>15-20</td>
<td>Blurred vision; Sensitive; Motor; Apathetic Scintillating scotoma</td>
<td>Pressing/tightening</td>
<td>Bilateral</td>
<td>Moderate</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>F, T, LL,</td>
<td>Side-shifting</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(90% right)</td>
<td>(48-72)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>III:30/F/45</td>
<td></td>
<td></td>
<td></td>
<td>F, T, LL,</td>
<td>Side-shifting</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Tr, F, T, LL, Tr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>III:34/F/41</td>
<td></td>
<td></td>
<td></td>
<td>F, T, UL, LL</td>
<td>Side-shifting</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(90% right)</td>
<td>(2-6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>III:37/M/35</td>
<td></td>
<td></td>
<td></td>
<td>F, T, UL, LL</td>
<td>Side-shifting</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(2-24)</td>
<td></td>
<td></td>
<td>Hot weather</td>
</tr>
<tr>
<td>IV:1/M/32</td>
<td></td>
<td></td>
<td></td>
<td>F, T, UL, LL</td>
<td>Side-shifting</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(2-24)</td>
<td></td>
<td></td>
<td>Playing soccer</td>
</tr>
<tr>
<td>IV:2/M/31</td>
<td></td>
<td></td>
<td></td>
<td>F, T, UL, LL</td>
<td>Right</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(17-24)</td>
<td>(24-48)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IV:6/M/29</td>
<td></td>
<td></td>
<td></td>
<td>F, UL, LL</td>
<td>Right</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(18-25)</td>
<td>(6-10)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IV:10/M/20</td>
<td></td>
<td></td>
<td></td>
<td>F, T, UL, LL, Tr</td>
<td>Right</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(15, 16)</td>
<td>(24)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

F, face; T, tongue; UL, upper limb; LL, lower limb; Tr, trunk; N, nausea; V, vomiting; Pt, photophobia; Pn, phonophobia; S, somnolence
### eTable 2. Transient focal neurological deficits without headache

<table>
<thead>
<tr>
<th>Subject/Gender/Age</th>
<th>Onset, Remission, (Peak), (yrs)</th>
<th>Lifetime occurrence (no. episodes)</th>
<th>Duration (min)</th>
<th>Type</th>
<th>Location</th>
<th>Laterality</th>
<th>Accompanying symptoms</th>
<th>Precipitating factors</th>
</tr>
</thead>
<tbody>
<tr>
<td>II:9/F/75</td>
<td>74</td>
<td>1</td>
<td>480</td>
<td>Aphasia; Hemiparesis</td>
<td>UL, LL</td>
<td>Right</td>
<td>-</td>
<td>Heading a ball</td>
</tr>
<tr>
<td>II:11/M/73</td>
<td>23</td>
<td>1</td>
<td>420</td>
<td>Hemiparesis</td>
<td>F, UL, LL</td>
<td>Left</td>
<td>Coma</td>
<td></td>
</tr>
<tr>
<td>II:14/F/69</td>
<td>20 (40-50)</td>
<td>&gt;50</td>
<td>20</td>
<td>Sensitive</td>
<td>F, UL, LL</td>
<td>Right</td>
<td>Somnolence</td>
<td></td>
</tr>
<tr>
<td>III:14/F/53</td>
<td>16, 50 (20-30)</td>
<td>&gt;90</td>
<td>10-15</td>
<td>Sensitive; Hemiparesis</td>
<td>UL, LL</td>
<td>Side-shifting, or bilateral</td>
<td>Right</td>
<td>Extremely hot weather; handling heavy objects</td>
</tr>
<tr>
<td>III:30/F/45</td>
<td>18 (22-25)</td>
<td>&gt;60</td>
<td>15-1500</td>
<td>Bright lights; Sensitive; Hemiparesis</td>
<td>F, T, UL, LL, Tr</td>
<td>-</td>
<td>Fasting</td>
<td></td>
</tr>
<tr>
<td>III:32/M/43</td>
<td>8, 11</td>
<td>2</td>
<td>180-600</td>
<td>Aphasia</td>
<td>-</td>
<td>Confusion</td>
<td>-</td>
<td>Heading (ball); falls (swings and slides)</td>
</tr>
<tr>
<td>III:34/F/41</td>
<td>15 (16-30)</td>
<td>10</td>
<td>15-20</td>
<td>Blurred vision; Sensitive; Hemiparesis; Aphasia</td>
<td>F, T, UL, LL</td>
<td>Right</td>
<td>Somnolence</td>
<td>-</td>
</tr>
<tr>
<td>III:37/M/35</td>
<td>7, 32 (7-16)</td>
<td>10</td>
<td>25-30</td>
<td>Blurred vision; Sensitive; Hemiparesis; Aphasia</td>
<td>F, T, UL, LL</td>
<td>Side-shifting</td>
<td>Somnolence</td>
<td>Extreme hot weather</td>
</tr>
<tr>
<td>III:10/M/20</td>
<td>2, 13 (2-13)</td>
<td>10</td>
<td>1440-2880</td>
<td>Hemiparesis</td>
<td>F, UL, LL</td>
<td>Right</td>
<td>Coma</td>
<td>Heading; falls</td>
</tr>
<tr>
<td>IV:15/F/26</td>
<td>10, 11-22 (10-11)</td>
<td>6</td>
<td>10-20</td>
<td>Hemiparesis; Aphasia</td>
<td>UL, LL</td>
<td>Side-shifting</td>
<td>-</td>
<td>Cross-country running</td>
</tr>
<tr>
<td>IV:16/F/21</td>
<td>12, 13</td>
<td>2</td>
<td>30-60</td>
<td>Hemiparesis; Aphasia</td>
<td>UL, LL</td>
<td>Right</td>
<td>-</td>
<td>Basketball games</td>
</tr>
</tbody>
</table>

F, face; T, tongue; UL, upper limb; LL, lower limb; Tr, trunk.
### eTable 3. Rapidly progressive coma triggered by minor trauma

<table>
<thead>
<tr>
<th>Subject/Gender/Age</th>
<th>Onset, Remission, Peak (yrs)</th>
<th>Lifetime occurrence (no. episodes)</th>
<th>Duration (hrs)</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>II:11/M/73</td>
<td>22</td>
<td>1</td>
<td>6</td>
<td>Heading a soccer ball. Transient hemiplegia.</td>
</tr>
<tr>
<td>II:14/F/69</td>
<td>23</td>
<td>1</td>
<td>4</td>
<td>Falling from a kitchen bench.</td>
</tr>
<tr>
<td>III:12/M/55</td>
<td>35</td>
<td>1</td>
<td>72</td>
<td>Falling from a first floor. Prolonged confusional state, after recovery of consciousness.</td>
</tr>
<tr>
<td>III:27/F/40</td>
<td>19</td>
<td>1</td>
<td>120</td>
<td>Lower limb fractures (hit by car).</td>
</tr>
<tr>
<td>III:37/M/35</td>
<td>07</td>
<td>1</td>
<td>4</td>
<td>Heading a goal post, followed by aphasia and right hemiplegia. Slow recovery: 8 days for motor deficit and 30 days for aphasia.</td>
</tr>
<tr>
<td>IV:6/M/29</td>
<td>18, 19</td>
<td>2</td>
<td>3-5</td>
<td>Several falls during a soccer game.</td>
</tr>
<tr>
<td>IV:9/M/27</td>
<td>1, 20 (2-15)</td>
<td>10</td>
<td>18-240</td>
<td>Falling from the cradle. Several other episodes of minor head trauma, related to children's play: soccer heading and bicycle falls. Last coma at age 20 years (a metallic bucket fell over his head).</td>
</tr>
<tr>
<td>IV:10/M/20</td>
<td>3, 13 (3-13)</td>
<td>11</td>
<td>12-24</td>
<td>Children's play. Right hemiplegia.</td>
</tr>
</tbody>
</table>

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