



# Les ACSOS du traumatisé crânien grave

Agressions Cérébrales Secondaires d'Origine Systémique

## Evaluation neurologique Le score de Glasgow ( GCS)

| ACSOS principales                                  | Etiologies principales  | Traitement préhospitalier   |
|--|---|---|
| <b>Hypotension artérielle</b><br>☹ ☹ PAM < 80 mmHg | <ul style="list-style-type: none"> <li>🔴 Hémorragies</li> <li>🔴 Atteinte médullaire</li> <li>🔴 Sédation excessive</li> </ul>  | <ul style="list-style-type: none"> <li>🔵 Arrêt des hémorragies externes</li> <li>🔵 Remplissage vasculaire</li> <li>🔵 Perfusion continue d'adrénaline</li> <li>🔵 Sédation adaptée</li> </ul>   |
| <b>Hypoxémie</b><br>☹ ☹ SpO2 < 90%                 | <ul style="list-style-type: none"> <li>🔴 obstruction des voies aériennes</li> <li>🔴 inhalation bronchique</li> <li>🔴 hypoventilation centrale</li> <li>🔴 traumatisme thoracique</li> <li>🔴 intubation œsophagienne</li> </ul> | <ul style="list-style-type: none"> <li>🔵 Oxygénothérapie</li> <li>🔵 Libération des VA</li> <li>➔ PLS + Ventilation Spontanée</li> <li>➔ IOT + Ventilation Assistée</li> <li>➔ Fastrach® + Ventilation Assistée</li> <li>🔵 Exsufflation des PNO</li> </ul> |
| <b>Anémie</b><br>☹ Hb < 100 g/l ou Ht < 30%        | <ul style="list-style-type: none"> <li>🔴 Hémorragies externes</li> <li>🔴 Hémorragies internes</li> </ul>  | <ul style="list-style-type: none"> <li>🔵 Arrêt des hémorragies externes</li> <li>➔ Pansements compressifs</li> <li>➔ Sutures d'hémostase</li> <li>🔵 Transfusion (anticiper / bilan SAMU)</li> </ul>   |
| <b>Hypercapnie</b><br>EtCO <sub>2</sub> > 45 mmHg  | <ul style="list-style-type: none"> <li>🔴 Hypoventilation alvéolaire</li> </ul>  | <ul style="list-style-type: none"> <li>🔵 Ventilation assistée fréquence physio</li> <li>➔ IOT + Ventilation Assistée</li> <li>➔ Fastrach® + Ventilation Assistée</li> </ul>   |
| <b>Hypocapnie</b><br>EtCO <sub>2</sub> < 30 mmHg   | <ul style="list-style-type: none"> <li>🔴 Hyperventilation iatrogène</li> <li>🔴 Hyperventilation spontanée</li> </ul>  | <ul style="list-style-type: none"> <li>🔵 Ventilation assistée fréquence physio</li> <li>➔ IOT + Ventilation Assistée</li> <li>➔ Fastrach® + Ventilation Assistée</li> </ul>   |

| Y = Ouverture des yeux     | V = Réponse verbale  | M = Réponse motrice +++   |
|----------------------------|----------------------|---------------------------|
| 1 – Pas d'ouverture        | 1 – Pas de réponse   | 1 – Pas de motricité      |
| 2 – Ouverture à la douleur | 2 - Incompréhensible | 2 - Extension stéréotypée |
| 3 – Ouverture au bruit     | 3 - Inappropriée     | 3 - Flexion stéréotypée   |
| 4 – Ouverture spontanée    | 4 - Confuse          | 4 - Evitement             |
|                            | 5 - Normale          | 5 - Orientée              |
|                            |                      | 6 – A la demande          |

**La réponse MOTRICE est déterminante du pronostic.** La stimulation douloureuse doit être latéralisée : ex. pression du lit unguéal à droite puis à gauche.

# Objectifs hémodynamiques du traumatisé grave

TG sans atteinte neurologique

- Hypotension permissive
- Ne pas remplir si PAS > 80 mmHg

TG avec atteinte neurologique

- (TCG et/ou TVM)
- Pas de tolérance à l'hypotension
- **PAS > 120 mmHg**

## Moyens :

1) Remplissage par 20 ml/kg de Chlorure de sodium 0,9%

Objectifs hémodynamiques non atteints

2) Poursuite du remplissage par Chlorure de sodium 0,9%

Objectifs hémodynamiques non atteints

3) Perfusion adrénaline 5mg dans une poche de 100 ml de NaCl débit à adapter en fonction de la tension

TG avec atteinte neurologique

+ bradycardie et/ou mydriase uni/bilatérale

Osmothérapie par Mannitol 20%

2,5 à 5 ml/kg

# L'examen du blessé médullaire

| Évaluation motrice  |   | Score ASIA  |   | Identité du patient  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
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| <table border="1"> <thead> <tr> <th></th> <th>D</th> <th>G</th> </tr> </thead> <tbody> <tr><td>C2</td><td></td><td></td></tr> <tr><td>C3</td><td></td><td></td></tr> <tr><td>C4</td><td></td><td></td></tr> <tr><td>C5</td><td></td><td></td></tr> <tr><td>C6</td><td></td><td></td></tr> <tr><td>C7</td><td></td><td></td></tr> <tr><td>C8</td><td></td><td></td></tr> <tr><td>T1</td><td></td><td></td></tr> <tr><td>T2</td><td></td><td></td></tr> <tr><td>T3</td><td></td><td></td></tr> <tr><td>T4</td><td></td><td></td></tr> <tr><td>T5</td><td></td><td></td></tr> <tr><td>T6</td><td></td><td></td></tr> <tr><td>T7</td><td></td><td></td></tr> <tr><td>T8</td><td></td><td></td></tr> <tr><td>T9</td><td></td><td></td></tr> <tr><td>T10</td><td></td><td></td></tr> <tr><td>T11</td><td></td><td></td></tr> <tr><td>T12</td><td></td><td></td></tr> <tr><td>L1</td><td></td><td></td></tr> <tr><td>L2</td><td></td><td></td></tr> <tr><td>L3</td><td></td><td></td></tr> <tr><td>L4</td><td></td><td></td></tr> <tr><td>L5</td><td></td><td></td></tr> <tr><td>S1</td><td></td><td></td></tr> <tr><td>S2</td><td></td><td></td></tr> <tr><td>S3</td><td></td><td></td></tr> <tr><td>S4-5</td><td></td><td></td></tr> </tbody> </table> |   |   | D | G  | C2 |  |  | C3 |  |  | C4 |  |  | C5 |  |  | C6 |  |  | C7 |  |  | C8 |  |  | T1 |  |  | T2 |  |  | T3 |  |  | T4 |  |  | T5 |  |  | T6 |  |  | T7 |  |  | T8 |  |  | T9 |  |  | T10 |  |  | T11 |  |  | T12 |  |  | L1 |  |  | L2 |  |  | L3 |  |  | L4 |  |  | L5 |  |  | S1 |  |  | S2 |  |  | S3 |  |  | S4-5 |  |  | <p>Flexion du coude</p> <p>Extension du poignet</p> <p>Extension du coude</p> <p>Flexion du médus (P3)</p> <p>Abduction du 5<sup>e</sup> doigt</p>  |  | <p>Date de l'examen</p> <p>____/____/____</p>   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
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| C3  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C4  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C5  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C6  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C7  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C8  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T1  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T2  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T3  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T4  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T5  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T6  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T7  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T8  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T9  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T10   |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T11   |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T12   |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| L1  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| L2  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| L3  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| L4  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| L5  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| S1  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| S2  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| S3  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| S4-5  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| <p>0 = paralysie totale</p> <p>1 = contraction visible ou palpable</p> <p>2 = mouvement actif sans pesanteur</p> <p>3 = mouvement actif contre pesanteur</p> <p>4 = mouvement actif contre résistance</p> <p>5 = mouvement normal</p> <p>NT, non testable</p>   |   | <p>Niveau neurologique* { Sensitif droite <input type="checkbox"/> gauche <input type="checkbox"/></p> <p>{ Moteur droite <input type="checkbox"/> gauche <input type="checkbox"/></p> <p>*Segment le plus caudal ayant une fonction normale</p> <p>Lésion médullaire** : Complète ou Incomplète</p> <p>** Caractère incomplet défini par une motricité ou une sensibilité du territoire S4-S5</p> <p>Échelle d'anomalie ASIA : A B C D E</p> <p>A = complète : aucune motricité ou sensibilité dans le territoire S4-S5</p> <p>B = incomplète : la sensibilité mais pas la motricité est préservée au-dessous du niveau lésionnel, en particulier dans le territoire S4-S5</p> <p>C = incomplète : la motricité est préservée au-dessous du niveau lésionnel et plus de la moitié des muscles testés au-dessous de ce niveau à un score &lt; 3</p> <p>D = incomplète : la motricité est préservée au-dessous du niveau lésionnel et au moins la moitié des muscles testés au-dessous du niveau à un score ≥ 3</p> <p>E = normale : la sensibilité et la motricité sont normales</p> <p>Préservation partielle*** { Sensitif droite <input type="checkbox"/> gauche <input type="checkbox"/></p> <p>{ Moteur droite <input type="checkbox"/> gauche <input type="checkbox"/></p> <p>*** Extension caudale des segments partiellement intacts</p> <p>Syndrome clinique : Centromédullaire <input type="checkbox"/></p> <p>Brown-Sequard <input type="checkbox"/></p> <p>Moelle antérieure <input type="checkbox"/></p> <p>Cône terminal <input type="checkbox"/></p> |   | <p>Score «motricité» : /100</p> <p>Contraction anale : oui/non</p> |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| <table border="1"> <thead> <tr> <th></th> <th>D</th> <th>G</th> </tr> </thead> <tbody> <tr><td>C2</td><td></td><td></td></tr> <tr><td>C3</td><td></td><td></td></tr> <tr><td>C4</td><td></td><td></td></tr> <tr><td>C5</td><td></td><td></td></tr> <tr><td>C6</td><td></td><td></td></tr> <tr><td>C7</td><td></td><td></td></tr> <tr><td>C8</td><td></td><td></td></tr> <tr><td>T1</td><td></td><td></td></tr> <tr><td>T2</td><td></td><td></td></tr> <tr><td>T3</td><td></td><td></td></tr> <tr><td>T4</td><td></td><td></td></tr> <tr><td>T5</td><td></td><td></td></tr> <tr><td>T6</td><td></td><td></td></tr> <tr><td>T7</td><td></td><td></td></tr> <tr><td>T8</td><td></td><td></td></tr> <tr><td>T9</td><td></td><td></td></tr> <tr><td>T10</td><td></td><td></td></tr> <tr><td>T11</td><td></td><td></td></tr> <tr><td>T12</td><td></td><td></td></tr> <tr><td>L1</td><td></td><td></td></tr> <tr><td>L2</td><td></td><td></td></tr> <tr><td>L3</td><td></td><td></td></tr> <tr><td>L4</td><td></td><td></td></tr> <tr><td>L5</td><td></td><td></td></tr> <tr><td>S1</td><td></td><td></td></tr> <tr><td>S2</td><td></td><td></td></tr> <tr><td>S3</td><td></td><td></td></tr> <tr><td>S4-5</td><td></td><td></td></tr> </tbody> </table> |   |   | D | G  | C2 |  |  | C3 |  |  | C4 |  |  | C5 |  |  | C6 |  |  | C7 |  |  | C8 |  |  | T1 |  |  | T2 |  |  | T3 |  |  | T4 |  |  | T5 |  |  | T6 |  |  | T7 |  |  | T8 |  |  | T9 |  |  | T10 |  |  | T11 |  |  | T12 |  |  | L1 |  |  | L2 |  |  | L3 |  |  | L4 |  |  | L5 |  |  | S1 |  |  | S2 |  |  | S3 |  |  | S4-5 |  |  | <p>Flexion de la hanche</p> <p>Extension du genou</p> <p>Dorsiflexion de cheville</p> <p>Extension du gros orteil</p> <p>Flexion plantaire de cheville</p>  |  | <p>Score «toucher» : /112</p> <p>Score «piqûre» : /112</p> <p>Sensibilité anale : oui/non</p> |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
|   | D | G   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C2  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C3  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C4  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C5  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C6  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C7  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C8  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T1  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T2  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T3  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T4  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T5  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T6  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T7  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T8  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T9  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T10   |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T11   |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T12   |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| L1  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| L2  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| L3  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| L4  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| L5  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| S1  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| S2  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| S3  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| S4-5  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| <table border="1"> <thead> <tr> <th></th> <th>D</th> <th>G</th> </tr> </thead> <tbody> <tr><td>C2</td><td></td><td></td></tr> <tr><td>C3</td><td></td><td></td></tr> <tr><td>C4</td><td></td><td></td></tr> <tr><td>C5</td><td></td><td></td></tr> <tr><td>C6</td><td></td><td></td></tr> <tr><td>C7</td><td></td><td></td></tr> <tr><td>C8</td><td></td><td></td></tr> <tr><td>T1</td><td></td><td></td></tr> <tr><td>T2</td><td></td><td></td></tr> <tr><td>T3</td><td></td><td></td></tr> <tr><td>T4</td><td></td><td></td></tr> <tr><td>T5</td><td></td><td></td></tr> <tr><td>T6</td><td></td><td></td></tr> <tr><td>T7</td><td></td><td></td></tr> <tr><td>T8</td><td></td><td></td></tr> <tr><td>T9</td><td></td><td></td></tr> <tr><td>T10</td><td></td><td></td></tr> <tr><td>T11</td><td></td><td></td></tr> <tr><td>T12</td><td></td><td></td></tr> <tr><td>L1</td><td></td><td></td></tr> <tr><td>L2</td><td></td><td></td></tr> <tr><td>L3</td><td></td><td></td></tr> <tr><td>L4</td><td></td><td></td></tr> <tr><td>L5</td><td></td><td></td></tr> <tr><td>S1</td><td></td><td></td></tr> <tr><td>S2</td><td></td><td></td></tr> <tr><td>S3</td><td></td><td></td></tr> <tr><td>S4-5</td><td></td><td></td></tr> </tbody> </table> |   |   | D | G  | C2 |  |  | C3 |  |  | C4 |  |  | C5 |  |  | C6 |  |  | C7 |  |  | C8 |  |  | T1 |  |  | T2 |  |  | T3 |  |  | T4 |  |  | T5 |  |  | T6 |  |  | T7 |  |  | T8 |  |  | T9 |  |  | T10 |  |  | T11 |  |  | T12 |  |  | L1 |  |  | L2 |  |  | L3 |  |  | L4 |  |  | L5 |  |  | S1 |  |  | S2 |  |  | S3 |  |  | S4-5 |  |  | <table border="1"> <thead> <tr> <th></th> <th>D</th> <th>G</th> </tr> </thead> <tbody> <tr><td>C2</td><td></td><td></td></tr> <tr><td>C3</td><td></td><td></td></tr> <tr><td>C4</td><td></td><td></td></tr> <tr><td>C5</td><td></td><td></td></tr> <tr><td>C6</td><td></td><td></td></tr> <tr><td>C7</td><td></td><td></td></tr> <tr><td>C8</td><td></td><td></td></tr> <tr><td>T1</td><td></td><td></td></tr> <tr><td>T2</td><td></td><td></td></tr> <tr><td>T3</td><td></td><td></td></tr> <tr><td>T4</td><td></td><td></td></tr> <tr><td>T5</td><td></td><td></td></tr> <tr><td>T6</td><td></td><td></td></tr> <tr><td>T7</td><td></td><td></td></tr> <tr><td>T8</td><td></td><td></td></tr> <tr><td>T9</td><td></td><td></td></tr> <tr><td>T10</td><td></td><td></td></tr> <tr><td>T11</td><td></td><td></td></tr> <tr><td>T12</td><td></td><td></td></tr> <tr><td>L1</td><td></td><td></td></tr> <tr><td>L2</td><td></td><td></td></tr> <tr><td>L3</td><td></td><td></td></tr> <tr><td>L4</td><td></td><td></td></tr> <tr><td>L5</td><td></td><td></td></tr> <tr><td>S1</td><td></td><td></td></tr> <tr><td>S2</td><td></td><td></td></tr> <tr><td>S3</td><td></td><td></td></tr> <tr><td>S4-5</td><td></td><td></td></tr> </tbody> </table> |  |   | D | G | C2 |  |  | C3 |  |  | C4 |  |  | C5 |  |  | C6 |  |  | C7 |  |  | C8 |  |  | T1 |  |  | T2 |  |  | T3 |  |  | T4 |  |  | T5 |  |  | T6 |  |  | T7 |  |  | T8 |  |  | T9 |  |  | T10 |  |  | T11 |  |  | T12 |  |  | L1 |  |  | L2 |  |  | L3 |  |  | L4 |  |  | L5 |  |  | S1 |  |  | S2 |  |  | S3 |  |  | S4-5 |  |  | <p>0 = absente</p> <p>1 = diminuée</p> <p>2 = normale</p> <p>NT, non testable</p> |  |
|   | D | G   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C2  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C3  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C4  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C5  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C6  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C7  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C8  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T1  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T2  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T3  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T4  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T5  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T6  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T7  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T8  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T9  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T10   |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T11   |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T12   |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| L1  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| L2  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| L3  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| L4  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| L5  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| S1  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| S2  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| S3  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| S4-5  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
|   | D | G   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C2  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C3  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C4  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C5  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C6  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C7  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| C8  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T1  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T2  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T3  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T4  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T5  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T6  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T7  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T8  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T9  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T10   |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T11   |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| T12   |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| L1  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| L2  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| L3  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| L4  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| L5  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| S1  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| S2  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| S3  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |
| S4-5  |   |   |   |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |   |   |   |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |     |  |  |     |  |  |     |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |    |  |  |      |  |  |   |  |

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