**Supplementary Table 1. Functional dysphagia scale using videofluoroscopic swallowing study in stroke patients**

| Factor                                           | Coded value | Score |
|--------------------------------------------------|-------------|-------|
| Lip closure                                      | Intact      | 0     |
|                                                  | Inadequate  | 5     |
|                                                  | None        | 10    |
| Bolus formation                                  | Intact      | 0     |
|                                                  | Inadequate  | 3     |
|                                                  | None        | 6     |
| Residue in oral cavity                          | None        | 0     |
|                                                  | ≤ 10%       | 2     |
|                                                  | 10%–50%     | 4     |
|                                                  | ≥ 50%       | 6     |
| Oral transit time                                | ≤ 1.5 sec   | 0     |
|                                                  | ≥ 1.5 sec   | 6     |
| Triggering of pharyngeal swallow                 | Normal      | 0     |
|                                                  | Delayed     | 10    |
| Laryngeal elevation and epiglottic closure       | Normal      | 0     |
|                                                  | Reduced     | 12    |
| Nasal penetration                                | None        | 0     |
|                                                  | ≤ 10%       | 4     |
|                                                  | 10%–50%     | 8     |
|                                                  | ≥ 50%       | 12    |
| Residue in valleculae                           | None        | 0     |
|                                                  | ≤ 10%       | 4     |
|                                                  | 10%–50%     | 8     |
|                                                  | ≥ 50%       | 12    |
| Residue in pyriform sinuses                     | None        | 0     |
|                                                  | ≤ 10%       | 4     |
|                                                  | 10%–50%     | 8     |
|                                                  | ≥ 50%       | 12    |
| Coating of pharyngeal wall after swallow         | No          | 0     |
|                                                  | Yes         | 10    |
| Pharyngeal transit time                          | ≤ 1.0 sec   | 0     |
|                                                  | ≥ 1.0 sec   | 4     |
| Total                                            |             | 100   |