**Appendix 1: Nutech Functional Score for Cerebrovascular Accidents**

|  |  |  |  |
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| **S. No.** | **Parameter** | **Description** | **Score** |
| 1 | Consciousness | Not afflicted | NAA |
|   |  | Not existing | NE |
|  |  | Coma | 1 |
|  |  | Stupor | 2 |
|  |  | Obtunded | 3 |
|  |  | Confused/disoriented | 4 |
|  |  | Normal | 5 |
| 2 | Facial Palsy | Not afflicted | NAA |
|   |  | Not existing | NE |
|  |  | Up to ear drooling | 1 |
|  |  | halfway with drooling | 2 |
|  |  | halfway without drooling | 3 |
|  |  | very slight, no drooling | 4 |
|  |  | No problem | 5 |
| 3 | Speech | Not afflicted | NAA |
|   |  | Not existing | NE |
|  |  | Dependent on alternate communication system | 1 |
|  |  | Dysarticulated of rarely comprehensive | 2 |
|  |  | Dysarticulated but often comprehensive | 3 |
|  |  | Slurred but comprehensive | 4 |
|  |  | Normal speech | 5 |
| 4 | Chewing | Not afflicted | NAA |
|   |  | Not existing | NE |
|  |  | Chewing absent/alternate feed methods | 1 |
|  |  | Severe difficulty | 2 |
|  |  | Moderate difficulty | 3 |
|  |  | Mild difficulty | 4 |
|  |  | Normal chewing | 5 |
| 5 | Swallowing | Not afflicted | NAA |
|   |  | Not existing | NE |
|  |  | Peg tube | 1 |
|  |  | Peg tube + liquids | 2 |
|  |  | Peg tube + semisolids | 3 |
|  |  | Solids with difficulty | 4 |
|  |  | No problem | 5 |
| 6 | Breathing | Not afflicted | NAA |
|   |  | Not existing | NE |
|  |  | Continuous(24 h) O2 with ventilator | 1 |
|  |  | Continuous(24 h) O2 without ventilator | 2 |
|  |  | Intermittent O2 (24 h) | 3 |
|  |  | Occasionally requirement of O2 | 4 |
|  |  | No problem | 5 |
| 7 | Walking Aid | Not afflicted | NAA |
|   |  | Not existing | NE |
|  |  | Walker with elbow support | 1 |
|  |  | Walker | 2 |
|  |  | Elbow crutcher | 3 |
|  |  | Cane | 4 |
|  |  | No Aid required | 5 |
| 8 | Walking Distance | Not afflicted | NAA |
|   |  | Not existing | NE |
|  |  | Less than five meters/cannot walk | 1 |
|  |  | Can walk up to 25 meters only | 2 |
|  |  | Can walk up to 50 meters only | 3 |
|  |  | Can walk up to 100 meters only | 4 |
|  |  | Walks normal distance | 5 |
| 9 | Balance (sitting) | Not afflicted | NAA |
|   |  | Not existing | NE |
|  |  | No sitting balance at all | 1 |
|  |  | Requires maximum external support | 2 |
|  |  | Requires minimum external support | 3 |
|  |  | Sits with no external support (U/L weakness) | 4 |
|  |  | Sitting balance normal | 5 |
| 10 | Standing Balance | Not afflicted | NAA |
|   |  | Not existing | NE |
|  |  | Cannot stand | 1 |
|  |  | Stand with caliper + maximum therapist support | 2 |
|  |  | Stand with caliper + minimum therapist support | 3 |
|  |  | Stand independently with caliper with no external support | 4 |
|  |  | Stand normally | 5 |
| 11 | Calipers | Not afflicted | NAA |
|  |  | Not existing | NE |
|  |  | THKAFO | 1 |
|  |  | HKAFO | 2 |
|  |  | KAFO+/Shanon Brace | 3 |
|  |  | AFO+/knee Extension/Shanon Brace | 4 |
|  |  | AFO/knee Extension/Shanon Brace | 5 |
| 12 | Muscle mass/Bulk/Atrophy | Not afflicted | NAA |
|   |  | Not existing | NE |
|  |  | Present | 1 |
|  |  | Absent | 5 |
| 13 | Spasticity | Not afflicted | NAA |
|   |  | Not existing | NE |
|  |  | Affected part (S) Rigid in F/E | 1 |
|  |  | Considerable increase in the muscle tone passive movement difficult | 2 |
|  |  | Maximum marked increase in the tone through most of ROM but affected Part (S) easily moved | 3 |
|  |  | Slight increase in muscle tone manifested by a catch of release Or | 4 |
|  |  | by minimal resistance at the end of Rom when affected point (S) is moved in F/E. |  |
|  |  | Less spasticity than 4 Or reached normalcy | 5 |
| 14 | Spasticity with Clonus | Not afflicted | NAA |
|  |  | Not existing | NE |
|  |  | With severe clonus | 1 |
|  |  | With moderate clonus | 2 |
|  |  | With on and off clonus | 3 |
|  |  | Spasticity with no clonus | 4 |
|  |  | Above description 3 or reached normalcy | 5 |
| 15 | Spasticity with Deformity | Not Afflicted | NAA |
|  |  | Not Existing | NE |
|  |  | Spasticity present | 1 |
|  |  | Spasticity absent | 5 |
| 16 | Flaccidity | Not afflicted | NAA |
|  |  | Not existing | NE |
|  |  | Flaccidity with no muscle visible/only tendon | 1 |
|  |  | Flaccidity with severe muscle loss | 2 |
|  |  | Flaccidity with moderate muscle loss | 3 |
|  |  | Flaccidity with minimal muscle loss | 4 |
|  |  | Above description 4 or reached normalcy | 5 |
| 17 | Flaccidity with Muscular Contracture | Not afflicted | NAA |
|  |  | Not existing | NE |
|  |  | With visible/palpable contracture of muscle and no joint movement | 1 |
|  |  | With sluggish muscle contracture and little joint movement | 2 |
|  |  | With muscle contracture and some joint movement | 3 |
|  |  | With muscle contracture and moderate joint movement | 4 |
|  |  | Above description 4 or reached normalcy | 5 |
| 18 | Writing | Not afflicted | NAA |
|  |  | Not existing | NE |
|  |  | Cannot write | 1 |
|  |  | Cannot join the dots or colour in lines | 2 |
|  |  | Can join the dots but has occasional slips | 3 |
|  |  | Can join the dots but unable to do the signature | 4 |
|  |  | No problem at all | 5 |
| 19 | Sensory | Not afflicted | NAA |
|  |  | Not existing | NE |
|  |  | Sensory loss- whole body-both side | 1 |
|  |  | Sensory loss- whole body-one side | 2 |
|  |  | Sensory loss- up to limbs-one side | 3 |
|  |  | Sensory loss- only UL or LL- one side | 4 |
|  |  | No sensory loss | 5 |
| 20 | Bowel | Not afflicted | NAA |
|  |  | Not existing | NE |
|  |  | Totally incontinent | 1 |
|  |  | Incontinence with pressure exerted like cough | 2 |
|  |  | Incontinence only when bowel full | 3 |
|  |  | Incontinence off and on | 4 |
|  |  | No problem | 5 |
| 21 | Bladder | Not afflicted | NAA |
|  |  | Not existing | NE |
|  |  | Totally incontinent | 1 |
|  |  | Incontinence with pressure exerted like cough | 2 |
|  |  | Incontinence only when bladder full | 3 |
|  |  | Incontinence off and on | 4 |
|  |  | No problem | 5 |
| 22 | Catheterization | Not Afflicted | NAA |
|  |  | Not Existing | NE |
|  |  | 24 hr catheterization | 1 |
|  |  | CIC | 2 |
|  |  | Condom | 3 |
|  |  | Diaper | 4 |
|  |  | No problem | 5 |

**Abbreviations:** U/L: Upper limb, L/L: Lower limb, NAA: Not Afflicted, NE: Not Existing.