Supplementary file 3

Paper: Mastication in patients with spinal muscular atrophy types 2 and 3 is characterized by abnormal efficiency, reduced endurance and fatigue

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Z-scores of the TOMASS and 6 MMT for each patient (n=27)

|   | TOMASS |   |   |   |   |   |   |   |
|---|--------|---|---|---|---|---|---|---|
|   | Age    | SMA type | Discrete bites | Masticatory cycles | Swallows | Time | Masticatory cycles | Difference M1 – M6 |
| 1 | 13     | 2       | 1.3            | 7.0                | 7.9      | 12.0 | -2.2              | -0.3               |
| 2 | 16     | 2       | 0.1            | 6.6                | 6.9      | 8.3  | -1.8              | -0.4               |
| 3 | 19     | 2       | -0.4           | 0.5                | 0.3      | 0.9  | -0.4              | -0.1               |
| 4 | 21     | 2       | 0.4            | 1.7                | 1.4      | 2.1  | -1.9              | -1.3               |
| 5 | 23     | 2       | -1.3           | -0.2               | 4.8      | 1.3  | -0.5              | 0.9                |
| 6 | 24     | 2       | 0.4            | 0.7                | 2.6      | 2.4  | -3.0              | -1                   |
| 7 | 27     | 2       | 0.4            | 4.9                | 2.6      | 7.6  | -1.5              | -1.5               |
| 8 | 30     | 2       | 0.4            | 3.9                | 4.8      | 8.5  | -1.5              | -1.0               |
| 9 | 32     | 2       | -0.3           | -1.0               | 0.3      | -0.6 | -1.3              | -0.2               |
| 10| 35     | 2       | 1.3            | 4.7                | 4.8      | 3.3  | -0.8              | -1.5               |
| 11| 36     | 2       | -0.4           | 0.1                | 5.9      | 2.9  | -0.8              | 1.0                |
| 12| 36     | 2       | -0.4           | 1.0                | 2.6      | 3.5  | -1.8              | -1.6               |
|    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|
| 13 | 37 | 2  | 0.4| 1.6| 7.0| 2.6| 0  | -1.3|
| 14 | 43 | 2  | 1.3| 1.8| 13.7|6.7 | -1.0| -0.2|
| 15 | 44 | 2  | 0.4| 6.3| 4.8| 8.3| -3.0|    |
| 16 | 44 | 2  | 0.4| 2.6| 3.7| 4.8| -1.6| -0.1|
| 17 | 45 | 2  | -0.7|1.8 | 2.6| 3.1| -3.0|    |
| 18 | 61 | 2  | -0.7|2.9 | 9.2| 3.5| -0.9| -0.6|
| 19 | 30 | 3  | -1.3|0.3 | -0.1| -1.7| -0.1|
| 20 | 38 | 3  | 0.4| 1.9 | 7.0| 4.6|    |    |
| 21 | 39 | 3  | 0.4| 2.7 | 2.6| 5.9| -3.0|    |
| 22 | 43 | 3  | -0.4|0.3 | 2.6| 0.6| -2.0| -1.7|
| 23 | 54 | 3  | 0.4| -0.6|0.3 | 0.5| -1.1| 0.3|
| 24 | 56 | 3  | -0.7|0.3 | -0.4| 0.3| -0.1| 0.3 |
| 25 | 59 | 3  | -0.4|0.3 | -0.1| 0.3| 0.1 | -1.1|
| 26 | 66 | 3  | 0.4| 1.4 | 1.4| 0.9| 0.1 | 0.4 |
| 27 | 67 | 3  | 1.3| 8.9 | 5.9| 7.9| -3.0|    |
TOMASS = test of mastication and swallowing solids; 6MMT = 6 minutes mastication test; Difference M1 – M6 = difference between minute 1 and minute 6

¹ patient could not finish the test, ² test was not performed because of jaw-complaints

The bold data refer to ambulant patients

The shaded areas are patients with posterior open bites