**Nociceptive Primitive  Reflexes in Neurologically and Cognitively Healthy Aging Subjects (**Manuscript ID CJN-OA-2018-0085).

 Supplementary table

C.Camarda\_appendix\_table\_1. xls

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| **Table S1: Characteristics of NCH subjects with and without nociceptive Primitive Reflexes (nPR) by age classes** |
|  | nPR+ | nPR- | Statistics | *P* Value |
|  |  |  | F test or Χ² |  |
| Arterial hypertension |  |  |  |  |
|  Adult (45 - 64 y) | 75 (48.08)  | 250 (36.18)  | 7.12 | **0.008** |
|  Elderly (65 - 74 y) | 110 (67.90)  | 85 (70.25)  | 0.09 | 0.770 |
|  Old-Oldest old (75 - 91 y) | 80 (84.21)  | 10 (47.62)  | 11.22 | **<0.001** |
| p-value | **<0.001** | **<0.001** |  |  |
| Diabetes mellitus |  |  |  |  |
|  Adult (45 - 64 y) | 22 (14.10)  | 96 (13.89)  | 0.00 | 1.000 |
|  Elderly (65 - 74 y) | 41 (25.31)  | 23 (19.01)  | 1.23 | 0.267 |
|  Old-Oldest old (75 - 91 y) | 22 (23.16)  | 3 (14.29)  | 0.36 | 0.547 |
| p-value | **0.037** | 0.340 |  |  |
| Chronic obstructive pulmonary disease |  |  |  |  |
|  Adult (45 - 64 y) | 7 (4.49)  | 12 (1.74)  | 3.21 | 0.073 |
|  Elderly (65 - 74 y) | 10 (6.17)  | 7 (5.79)  | 0.00 | 1.000 |
|  Old-Oldest old (75 - 91 y) | 8 (8.42)  | 1 (4.76)  | 0.01 | 0.907 |
| p-value | 0.446 | **0.021** |  |  |
| Obesity |  |  |  |  |
|  Adult (45 - 64 y) | 61 (40.67)  | 209 (32.10)  | 3.63 | 0.057 |
|  Elderly (65 - 74 y) | 71 (44.65)  | 50 (42.37)  | 0.07 | 0.798 |
|  Old-Oldest old (75 - 91 y) | 40 (42.55)  | 6 (28.57)  | 0.88 | 0.349 |
| p-value | 0.778 | 0.084 |  |  |
| Ischaemic heart disease |  |  |  |  |
|  Adult (45 - 64 y) | 8 (5.13)  | 27 (3.91)  | 0.22 | 0.639 |
|  Elderly (65 - 74 y) | 29 (17.90)  | 11 (9.09)  | 3.73 | 0.053 |
|  Old-Oldest old (75 - 91 y) | 11 (11.58)  | 2 (9.52)  | 0.00 | 1.000 |
| p-value | **0.002** | **0.029** |  |  |
| Atrial fibrillation |  |  |  |  |
|  Adult (45 - 64 y) | 1 (0.64)  | 1 (0.14)  | 0.06 | 0.810 |
|  Elderly (65 - 74 y) | 15 (9.26)  | 5 (4.13)  | 2.05 | 0.153 |
|  Old-Oldest old (75 - 91 y) | 8 (8.42)  | 4 (19.05)  | 1.10 | 0.293 |
| p-value | **0.002** | **<0.001** |  |  |
| Chronic heart failure |  |  |  |  |
|  Adult (45 - 64 y) | 4 (2.56)  | 7 (1.01)  | 1.33 | 0.248 |
|  Elderly (65 - 74 y) | 6 (3.70)  | 7 (5.79)  | 0.29 | 0.589 |
|  Old-Oldest old (75 - 91 y) | 10 (10.53)  | 2 (9.52)  | 0.00 | 1.000 |
| p-value | **0.012** | **<0.001** |  |  |
| History of transient ischemic attacks  |  |  |  |  |
|  Adult (45 - 64 y) | 12 (7.69)  | 26 (3.77)  | 3.70 | 0.054 |
|  Elderly (65 - 74 y) | 15 (9.26)  | 5 (4.13)  | 2.05 | 0.153 |
|  Old-Oldest old (75 - 91 y) | 12 (12.63)  | 0 (0.00)  | 1.75 | 0.185 |
| p-value | 0.428 | 0.647 |  |  |
| Lower limb arteriopathy |  |  |  |  |
|  Adult (45 - 64 y) | 1 (0.64)  | 3 (0.43)  | 0.00 | 1.000 |
|  Elderly (65 - 74 y) | 5 (3.09)  | 2 (1.65)  | 0.15 | 0.703 |
|  Old-Oldest old (75 - 91 y) | 4 (4.21)  | 0 (0.00)  | 0.09 | 0.767 |
| p-value | 0.159 | 0.260 |  |  |
| APOE ε4 \* |  |  |  |  |
|  Adult (45 - 64 y) | 60 (39.74)  | 85 (13.62)  | 52.81 | **<0.001** |
|  Elderly (65 - 74 y) | 100 (61.73)  | 71 (58.68)  | 0.16 | 0.692 |
|  Old-Oldest old (75 - 91 y) | 69 (72.63)  | 15 (71.43)  | 0.00 | 1.000 |
| p-value | **<0.001** | **<0.001** |  |  |
| IMT \* |  |  |  |  |
|  Adult (45 - 64 y) | 68 (48.23)  | 163 (27.77)  | 21.03 | **<0.001** |
|  Elderly (65 - 74 y) | 143 (88.27)  | 96 (80.67)  | 2.55 | 0.110 |
|  Old-Oldest old (75 - 91 y) | 89 (95.70)  | 18 (85.71)  | 1.48 | 0.223 |
| p-value | **<0.001** | **<0.001** |  |  |
| SICA \* |  |  |  |  |
|  Adult (45 - 64 y) | 12 (8.51)  | 12 (2.05)  | 12.92 | **<0.001** |
|  Elderly (65 - 74 y) | 12 (7.41)  | 4 (3.36)  | 1.41 | 0.236 |
|  Old-Oldest old (75 - 91 y) | 10 (10.75)  | 6 (28.57)  | 3.15 | 0.076 |
| p-value | 0.656 | **<0.001** |  |  |
| WMH-PV |  |  |  |  |
|  Adult (45 - 64 y) | 17 (10.90)  | 30 (4.34)  | 9.22 | **0.002** |
|  Elderly (65 - 74 y) | 52 (32.10)  | 15 (12.40)  | 13.81 | **<0.001** |
|  Old-Oldest old (75 - 91 y) | 45 (47.37)  | 2 (9.52)  | 8.71 | **0.003** |
| p-value | **<0.001** | **0.001** |  |  |
| WMH-SC |  |  |  |  |
|  Adult (45 - 64 y) | 17 (10.90)  | 38 (5.50)  | 5.25 | **0.022** |
|  Elderly (65 - 74 y) | 36 (22.22)  | 16 (13.22)  | 3.16 | 0.075 |
|  Old-Oldest old (75 - 91 y) | 34 (35.79)  | 2 (9.52)  | 4.38 | **0.036** |
| p-value | **<0.001** | **0.007** |  |  |
| WMH-BG |  |  |  |  |
|  Adult (45 - 64 y) | 4 (2.56)  | 10 (1.45)  | 0.41 | 0.522 |
|  Elderly (65 - 74 y) | 13 (8.02)  | 3 (2.48)  | 3.02 | 0.082 |
|  Old-Oldest old (75 - 91 y) | 10 (10.53)  | 0 (0.00)  | 1.27 | 0.260 |
| p-value | **0.029** | 0.590 |  |  |
| Lacunes-SC |  |  |  |  |
|  Adult (45 - 64 y) | 21 (13.46)  | 45 (6.51)  | 7.61 | **0.006** |
|  Elderly (65 - 74 y) | 31 (19.14)  | 15 (12.40)  | 1.84 | 0.175 |
|  Old-Oldest old (75 - 91 y) | 26 (27.37)  | 6 (28.57)  | 0.00 | 1.000 |
| p-value | **0.024** | **<0.001** |  |  |
| Lacunes-INF |  |  |  |  |
|  Adult (45 - 64 y) | 4 (2.56)  | 7 (1.01)  | 1.33 | 0.248 |
|  Elderly (65 - 74 y) | 5 (3.09)  | 3 (2.48)  | 0.00 | 1.000 |
|  Old-Oldest old (75 - 91 y) | 7 (7.37)  | 2 (9.52)  | 0.00 | 1.000 |
| p-value | 0.129 | **0.003** |  |  |
| Lacunes-BG |  |  |  |  |
|  Adult (45 - 64 y) | 8 (5.13)  | 20 (2.89)  | 1.35 | 0.245 |
|  Elderly (65 - 74 y) | 22 (13.58)  | 7 (5.79)  | 3.77 | 0.052 |
|  Old-Oldest old (75 - 91 y) | 22 (23.16)  | 3 (14.29)  | 0.36 | 0.547 |
| p-value | **<0.001** | **0.008** |  |  |
| Depression |  |  |  |  |
|  Adult (45 - 64 y) | 107 (68.59)  | 342 (49.49)  | 17.87 | **<0.001** |
|  Elderly (65 - 74 y) | 128 (79.01)  | 63 (52.07)  | 21.71 | **<0.001** |
|  Old-Oldest old (75 - 91 y) | 85 (89.47)  | 12 (57.14)  | 10.87 | **<0.001** |
| p-value | **<0.001** | 0.703 |  |  |
| Anxiety |  |  |  |  |
|  Adult (45 - 64 y) | 115 (73.72)  | 365 (52.82)  | 21.79 | **<0.001** |
|  Elderly (65 - 74 y) | 129 (79.63)  | 65 (53.72)  | 20.38 | **<0.001** |
|  Old-Oldest old (75 - 91 y) | 85 (89.47)  | 14 (66.67)  | 5.45 | **0.020** |
| p-value | **0.011** | 0.454 |  |  |
| Bicaudate ratio |  |  |  |  |
|  Adult (45 - 64 y) | 0.12 ± 0.02 | 0.10 ± 0.01 | 218.67 | **<0.001** |
|  Elderly (65 - 74 y) | 0.14 ± 0.01 | 0.13 ± 0.01 | 58.58 | **<0.001** |
|  Old-Oldest old (75 - 91 y) | 0.16 ± 0.01 | 0.15 ± 0.01 | 17.21 | **<0.001** |
| p-value | **<0.001** | **<0.001** |  |  |
| Lateral ventricles to brain ratio |  |  |  |  |
|  Adult (45 - 64 y) | 1.81 ± 0.27 | 1.55 ± 0.15 | 247.95 | **<0.001** |
|  Elderly (65 - 74 y) | 2.13 ± 0.30 | 1.91 ± 0.27 | 40.97 | **<0.001** |
|  Old-Oldest old (75 - 91 y) | 2.90 ± 0.31 | 2.63 ± 0.27 | 13.37 | **<0.001** |
| p-value | **<0.001** | **<0.001** |  |  |

\* Missing data: APOE ε4, nPR+ = 5 (1.2%); nPR- = 67 (8.7%); IMT, nPR+ = 17; nPR - = 106; SICA, nPR+ = 17; nPR- = 106.

IMT Intimal-medial thickness ; SICA Stenosis of the internal carotid arteries ; WMH White matter hyperintensities; PV periventricular; SC deep/subcortical; INF infratentorial; BG basal ganglia.

Data presented are number (%) for categorical, and mean (SD) for continuous data.

Bold values indicate significance at *p* ≤ 0.05.