Appendix

Supplementary Materials A: Calculation of the optimum regression coefficients

Supplementary Materials B: Optimum regression coefficients

Supplementary Materials C: Neuropsychological measures: T1–T2 difference scores

Supplementary Materials D: Standardised neuropsychological test performance: between group effect sizes

Supplementary Materials E: Participants and counts of deviance scores that were < -1.5 SD, < -2 SD, and < -2.5 SD, respectively.

Supplementary Materials F: Difference scores in patients with and without cognitive decline from T1 to T2

Supplementary Materials A

Regression coefficients

|  |
| --- |
| fit <- lm(data.norming.lm.t2.ref$VLGTtotA ~ 1 )  fit1 <- lm(data.norming.lm.t2.ref$VLGTtotA ~ data.norming.lm.t1.ref$VLGTtotA)  anova(fit,fit1)  fit2<-lm(data.norming.lm.t2.ref$VLGTtotA ~ data.norming.lm.t1.ref$VLGTtotA+data.norming.lm.t1.ref$Age)  anova(fit1,fit2)  fit3<-lm(data.norming.lm.t2.ref$VLGTtotA ~ data.norming.lm.t1.ref$VLGTtotA+data.norming.lm.t1.ref$NVL1)  anova(fit1,fit3)  fit4<-lm(data.norming.lm.t2.ref$VLGTtotA ~ data.norming.lm.t1.ref$VLGTtotA+data.norming.lm.t1.ref$menopause)  anova(fit1,fit4)  fit5<-lm(data.norming.lm.t2.ref$VLGTtotA ~ data.norming.lm.t1.ref$VLGTtotA+data.norming.lm.t1.ref$beduren)  anova(fit1,fit5)  fit6 <- lm(data.norming.lm.t2.ref$VLGTtotA ~ data.norming.lm.t1.ref$VLGTtotA+fatigue)  anova(fit1,fit6)  fit7<-lm(data.norming.lm.t2.ref$VLGTtotA~ data.norming.lm.t1.ref$VLGTtotA+data.norming.lm.t2.ref$opleiding)  anova(fit1,fit7) |

Calculation of optimum regression coefficients, based on regression of the T2 scores for the reference group (HC) onto the predicting variables; significance was calculated using ANOVA.

Supplementary Materials B

Optimum regression coefficients

Intercept T1 score Age DART Menop Bed hour Fatigue Education RSE

VLGT Tot A -0.0543 0.7971 x x x x x 0.2284 0.5961

(0.5755) (0.0001) x x x x x (0.0241) (0.0001)

VLGTothlist -0.0189 x x x x x x x 1.264

(0.911) x x x x x x x (0.911)

VLGTfreerec 0.2189 0.4866 -0.1868 x x x x x 0.5975

(0.00831) (0.0001) (0.03161) x x x x x (0.0001)

VLGTlongrec 0.3164 0.4367 x x x x x x 0.725

(0.0019) (0.0001) x x x x x x (0.0001)

VLGTinterference 0.5024 x x x x x x x 1.606

(0.0229) x x x x x x x (0.0229)

VLGTretrointerf 0.2688 0.1876 -0.2712 x x x x x 0.645

(0.0029) (0.0415) (0.0039) x x x x x (0.0005)

TMTvis -0.2826 0.3843 0.2573 x x x x x 0.2694

(0.0155) (0.0017) (0.0315) x x x x x (0.0002)

TMTnumb -0.2867 0.5904 x x x x x x 0.6896

(0.003) (0.0001) x x x x x x (0.0001)

TMTletter -0.079 0.63206 x x x x x x 1.055

(0.578) (0.0001) x x x x x x (0.0001)

TMTswitch -0.1363 0.323 0.2442 x x -0.2794 x x 0.5984

(0.09425) (0.0011) (0.0089) x x (0.0017) x x (0.0001)

CWTcolor -0.191 0.6468 x -0.304 x x x x 0.6774

(0.0396) (0.0001) x (0.0018) x x x x (0.0001)

CWTword -0.0634 0.7239 x x x x x x 0.5769

(0.415) (0.0001) x x x x x x (0.0001)

CWTinhib -0.1291 0.8113 x x x x x x 0.6483

(0.142) (0.0001) x x x x x x (0.0001)

CWTinhswitch -0.2976 0.6324 0.1604 x x x x x 0.548

(0.0002) (0.0001) (0.0394) x x x x x (0.0001)

COWATtotnak 0.2083 0.7816 x 0.2283 x x x x 0.7349

(0.0386) (0.0001) x (0.0456) x x x x (0.0001)

COWATanim 0.0001 0.6539 x x x x x x 0.6085

(1) (0.0001) x x x x x x (0.0001)

COWATprof 0.0817 0.595 x x x x x x 0.8437

(0.472) (0.0001) x x x x x x (0.0001)

Optimum regression coefficients for all target variables (p-values in brackets). 'x' indicates coefficients that did not provide significant increases in model fit. Abbreviations: VLGT, Verbale Leer- en Geheugen Test; TMT, trailmaking test; CWT, Color-Word Test; DART, Dutch adult reading test; RSE, relative standard error.

Supplementary Materials C

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| Neuropsychological measures: difference scores | | | | | | | |  |
|  |  | T1 Mean | T1 SD | T2 Mean | T2 SD | P (change) | Change Difference | SD difference |
| **VLGT Total recall** | HC | 0 | 1 | -0.0543 | 1.1147 | 0.7865 | -0.0543 | 0.7626 |
|  | Non-CT | -0.5366 | 0.9369 | -0.179 | 1.1023 | 0.123 | 0.3308 | 0.9009 |
|  | CT | -0.0155 | 0.9939 | 0.1085 | 1.1564 | 0.506 | 0.1033 | 0.8526 |
| **VLGTdistraction list** | HC | 0 | 1 | -0.0189 | 1.2642 | 0.9303 | -0.0189 | 1.4049 |
|  | Non-CT | -0.4301 | 1.0763 | -0.631 | 0.8914 | 0.3654 | -0.2306 | 1.1564 |
|  | CT | 0.1776 | 1.1014 | -0.3455 | 1.2733 | 0.012 | -0.5289 | 1.224 |
| **VLGTshort delay recall** | HC | 0 | 1 | 0.2189 | 0.8192 | 0.2078 | 0.2189 | 0.7642 |
|  | Non-CT | -0.2484 | 0.7665 | 0.0111 | 0.8429 | 0.1545 | 0.2804 | 0.8685 |
|  | CT | 0.0229 | 0.7618 | 0.3204 | 0.783 | 0.027 | 0.2711 | 0.7068 |
| **VLGT long delay recall** | HC | 0 | 1 | 0.3164 | 0.8407 | 0.073 | 0.3164 | 0.9128 |
|  | Non-CT | -0.2261 | 0.776 | 0.0475 | 0.1088 | 0.2074 | 0.2958 | 1.08164 |
|  | CT | 0.0388 | 0.8975 | 0.3371 | 0.9146 | 0.058 | 0.2684 | 0.8777 |
| **VLGT proactive interf.** | HC | 0 | 1 | 0.5024 | 1.6061 | 0.0499 | 0.5024 | 1.7488 |
|  | Non-CT | 0.0095 | 1.2064 | -0.3231 | 1.252 | 0.2058 | -0.3038 | 1.8064 |
|  | CT | 0.1639 | 1.4596 | -0.4158 | 1.4081 | 0.0232 | -0.5911 | 1.7887 |
| **VLGTretroactive interf.** | HC | 0 | 1 | 0.2688 | 0.7314 | 0.1076 | 0.2689 | 1.0125 |
|  | Non-CT | -0.0159 | 0.719 | 0.2165 | 0.6088 | 0.1223 | 0.2816 | 0.9247 |
|  | CT | 0.0864 | 0.7089 | 0.4167 | 0.705 | 0.0075 | 0.3065 | 0.9263 |
| **D-KEFS TM visual scanning** | HC | 0 | 1 | -0.2826 | 0.9714 | 0.1321 | -0.2826 | 1.0345 |
|  | Non-CT | 0.6704 | 1.4265 | 0.4632 | 1.2618 | 0.4959 | -0.2499 | 1.201 |
|  | CT | 0.2175 | 2.0872 | -0.161 | 1.3167 | 0.2105 | -0.1997 | 0.8929 |
| **D-KEFS TM numbers** | HC | 0 | 1 | -0.2867 | 0.9031 | 0.1142 | -0.2867 | 0.7967 |
|  | Non-CT | 0.5495 | 1.1592 | 0.3215 | 1.0962 | 0.3718 | -0.2694 | 0.8767 |
|  | CT | 0.2686 | 1.1758 | -0.1041 | 1.0476 | 0.0547 | -0.4061 | 0.8687 |
| **D-KEFS TM letters** | HC | 0 | 1 | -0.079 | 1.2216 | 0.7089 | -0.079 | 0.1082 |
|  | Non-CT | 0.3825 | 1.1366 | 0.2999 | 2.518 | 0.5824 | -0.4309 | 0.9644 |
|  | CT | 0.0905 | 1.4057 | -0.2277 | 1.312 | 0.1776 | -0.3108 | 0.9109 |
| **D-KEFS TM switching** | HC | 0 | 1 | -0.1363 | 0.8397 | 0.4365 | -0.1363 | 0.8316 |
|  | Non-CT | 0.6518 | 1.3958 | 0.4113 | 1.3034 | 0.4311 | -0.2321 | 0.8426 |
|  | CT | 0.0645 | 1.3072 | -0.216 | 1.1193 | 0.1841 | -0.2699 | 0.6111 |
| **D-KEFS CW colour naming** | HC | 0 | 1 | -0.191 | 1.0083 | 0.3165 | -0.191 | 0.7903 |
|  | Non-CT | -0.0143 | 1.066 | 0.0418 | 1.1521 | 0.822 | 0.0669 | 0.8456 |
|  | CT | -0.001 | 1.218 | -0.3537 | 0.9129 | 0.0584 | -0.324 | 0.7307 |
| **D-KEFS CW word reading** | HC | 0 | 1 | -0.0634 | 0.9224 | 0.7281 | -0.0634 | 0.6348 |
|  | Non-CT | 0.079 | 0.6907 | 0.086 | 0.811 | 0.9669 | 0.0607 | 0.5175 |
|  | CT | 0.2248 | 1.0535 | 0.1928 | 1.066 | 0.8613 | -0.036 | 0.6912 |
| **D-KEFS CW inhibition** | HC | 0 | 1 | -0.1292 | 1.0348 | 0.5031 | -0.1292 | 0.6695 |
|  | Non-CT | 0.5766 | 1.3181 | 0.3885 | 1.3677 | 0.5333 | -0.2071 | 0.806 |
|  | CT | 0.2456 | 1.6815 | -0.159 | 1.381 | 0.1283 | -0.4111 | 0.8423 |
| **D-KEFS CWTinhswitch** | HC | 0 | 1 | -0.2977 | 0.8729 | 0.096 | -0.2977 | 0.6504 |
|  | Non-CT | 0.1012 | 0.8335 | 0.018 | 0.8636 | 0.6625 | -0.0529 | 0.4925 |
|  | CT | 0.1487 | 1.0747 | -0.1622 | 1.1919 | 0.1144 | -0.2983 | 0.8794 |
| **Verbal fluency letters** | HC | 0 | 1 | 0.2083 | 1.1606 | 0.3112 | 0.2083 | 0.758 |
|  | Non-CT | -0.2765 | 1.1805 | 0.2378 | 1.1157 | 0.0486 | 0.4697 | 0.8532 |
|  | CT | -0.005 | 1.0942 | -0.2833 | 1.1381 | 0.1503 | -0.2571 | 0.7724 |
| **Verbal fluency animals** | HC | 0 | 1 | 0 | 0.8895 | 1 | 0 | 0.6952 |
|  | Non-CT | -0.3743 | 0.8648 | -0.5069 | 0.849 | 0.4911 | -0.1515 | 0.6795 |
|  | CT | -0.3224 | 0.9592 | -0.35168 | 0.948796 | 0.8586 | 0 | 0.8432 |
| **Verbal fluency professions** | HC | 0 | 1 | 0.0817 | 1.0261 | 0.6704 | 0.0817 | 0.9289 |
|  | Non-CT | -0.2289 | 0.9998 | -0.1675 | 1.0496 | 0.7898 | 0.0645 | 0.8396 |
|  | CT | -0.3598 | 1.0258 | -0.2853 | 1.0799 | 0.6822 | 0.1144 | 0.8008 |

CT, chemotherapy; HC, healthy control; interf, interference; SD, standard deviation; VGLT, Verbale Leer- en Geheugen Test.

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| Supplementary Materials D: Standardized neuropsychological test performance: T2–T1 change scores | | | | | |
|  | Comparison | ES | Cilow | Cihigh | P (change|Group) |
| VLGT Total recall | CT vs. Non-CT | 0.2594 | -0.1275 | 0.5828 | 0.206 |
| p=0.3430 | Non-CT vs. Controls | 0.4614 | -0.7371 | -0.033 | 0.0324 |
|  | CT vs. Controls | 0.1948 | -0.4472 | 0.1321 | 0.28 |
| VLGT distraction list | CT vs. Non-CT | 0.2505 | -0.1764 | 0.7732 | 0.2148 |
| p=0.0279 | Non-CT vs. Controls | 0.1645 | -0.3121 | 0.7355 | 0.4242 |
|  | CT vs. Controls | 0.3871 | 0.0331 | 0.9871 | 0.0363 |
| VLGTshort delay recall | CT vs. Non-CT | 0.012 | -0.3181 | 0.3367 | 0.9551 |
| p=0.7155 | Non-CT vs. Controls | -0.075 | -0.4051 | 0.2823 | 0.7228 |
|  | CT vs. Controls | -0.0701 | -0.318 | 0.2136 | 0.6981 |
| VLGT long delayed recall | CT vs. Non-CT | 0.0278 | -0.38 | 0.4348 | 0.8937 |
| p=0.7784 | Non-CT vs. Controls | 0.0206 | -0.4017 | 0.4428 | 0.9229 |
|  | CT vs. Controls | 0.0536 | -0.2748 | 0.3707 | 0.7692 |
| VLGTpro-active | CT vs. Non-CT | 0.0278 | -0.4363 | 1.0179 | 0.4318 |
| p<0.0001 | Non-CT vs. Controls | 0.4534 | 0.0662 | 1.5462 | 0.0331 |
|  | CT vs. Controls | 0.6181 | 0.4576 | 1.7293 | 0.0009\*\* |
| VLGTretroactive | CT vs. Non-CT | 0.027 | -0.3969 | 0.347 | 0.8942 |
| p=0.8268 | Non-CT vs. Controls | 0.013 | -0.4115 | 0.3859 | 0.9494 |
|  | CT vs. Controls | 0.0387 | -0.3883 | 0.3128 | 0.8316 |
| D-KEFS visualscanning | CT vs. Non-CT | 0.047 | -0.4983 | 0.3978 | 0.8233 |
| p=0.6546 | Non-CT vs. Controls | -0.4751 | -0.5089 | 0.4435 | 0.892 |
|  | CT vs. Controls | -0.4991 | -0.434 | 0.2681 | 0.6404 |
| D-KEFS number | CT vs. Non-CT | 0.1566 | -0.2185 | 0.4921 | 0.4457 |
| p=0.4280 | Non-CT vs. Controls | -0.0201 | -0.3713 | 0.3366 | 0.9226 |
|  | CT vs. Controls | 0.1433 | 0.1805 | 0.4194 | 0.4319 |
| D-KEFS letter | CT vs. Non-CT | -0.128 | -0.5047 | 0.2644 | 0.5355 |
| p=0.2220 | Non-CT vs. Controls | 0.5128 | -0.0763 | 0.7802 | 0.106 |
|  | CT vs. Controls | 0.3574 | -0.1375 | 0.6011 | 0.2161 |
| D-KEFS switching | CT vs. Non-CT | 0.0514 | -0.2747 | 0.3505 | 0.8094 |
| p=0.3330 | Non-CT vs. Controls | 0.1144 | -0.2548 | 0.4465 | 0.588 |
|  | CT vs. Controls | 0.1831 | -0.1332 | 0.4006 | 0.3227 |
| D-KEFS colour naming | CT vs. Non-CT | 0.0514 | 0.067 | 0.7151 | 0.0187 |
| p=0.3100 | Non-CT vs. Controls | -0.315 | -0.5997 | 0.084 | 0.1373 |
|  | CT vs. Controls | 0.1747 | -0.1417 | 0.4079 | 0.3394 |
| D-KEFS word reading | CT vs. Non-CT | 0.1584 | -0.1392 | 0.3322 | 0.4184 |
| p=0.8410 | Non-CT vs. Controls | -0.2143 | -0.3596 | 0.1115 | 0.2984 |
|  | CT vs. Controls | -0.0413 | -0.2654 | 0.2104 | 0.8192 |
| D-KEFS inhibition | CT vs. Non-CT | 0.2473 | -0.1253 | 0.5332 | 0.2215 |
| p=0.0450 | Non-CT vs. Controls | 0.1051 | -0.2351 | 0.391 | 0.6211 |
|  | CT vs. Controls | 0.3705 | 0.0107 | 0.553 | 0.0417 |
| D-KEFS inhibition/switching | CT vs. Non-CT | 0.3443 | -0.0203 | 0.511 | 0.069 |
| p=0.9376 | Non-CT vs. Controls | -0.4243 | -0.4778 | -0.0117 | 0.0398 |
|  | CT vs. Controls | 0.0007 | -0.2743 | 0.2755 | 0.9966 |
| Verbal fluency letters | CT vs. Non-CT | 0.8931 | 0.3951 | 1.0585 | 0.001\*\* |
| p=0.0013 | Non-CT vs. Controls | -0.323 | -0.6001 | 0.0774 | 0.1285 |
|  | CT vs. Controls | 0.6081 | 0.1903 | 0.7405 | 0.0011 |
| Verbal fluency animals | CT vs. Non-CT | -0.1978 | -0.4502 | 0.147 | 0.3161 |
| p=0.9650 | Non-CT vs. Controls | 0.2203 | -0.133 | 0.4361 | 0.2925 |
|  | CT vs. Controls | 0 | -0.2758 | 0.2758 | 1 |
| Verbal fluency professions | CT vs. Non-CT | 0.0608 | -0.3818 | 0.2821 | 0.7657 |
| p=0.8270 | Non-CT vs. Controls | 0.0194 | -0.3465 | 0.3808 | 0.9254 |
|  | CT vs. Controls | -0.0377 | -0.3468 | 0.2815 | 0.837 |

For each test variable, the p-value of the group as a predicting variable is printed directly below the group name. In the subsequent columns, groups are contrasted on their T2–T1 change scores using t-tests. For each of these tests, the Effect Size (ES), lower boundary of the 95% confidence interval (Cilow), higher boundary of the 95% confidence interval (Cihigh), and the corresponding p-value is given. Please note that multiple testing adjustments should be considered when interpreting these results. CT, chemotherapy; VGLT, Verbale Leer- en Geheugen Test.

Supplementary Materials E: Participants and counts of deviance scores that were < -1.5 SD, < -2 SD, and < -2.5 SD, respectively, for more than 1 test, in the different groups.

|  |  |  |
| --- | --- | --- |
| < -1.5 SD | < - 2 SD | < - 2.5 SD |
| CT 27/66 40.9%  Non-CT 11/39 28.2%  HC 21/56 37.5% | CT 22/66 33.3%  Non-CT 9/39 23.1%  HC 8/56 14.3% | CT 16/66 24.2%  Non-CT 6/39 15.4%  HC 4/56 7.1% |

SD, standardised difference.

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Supplementary Materials F: Difference scores in patients with and without cognitive decline from T1 to T2 | | | | | | | |
|  |  | **Mean t1 decline** | **Mean t1 no decline** | **t-test (P value)** | **Mean t2 decline** | **Mean t2 no decline** | **P value** |
| **VLGTtotal recall** | Controls | 68 | 62.84 | 0.3172 | 60 | 62.98 | 0.6511 |
|  | Non-CT | 56 | 59.28 | 0.2594 | 52.16 | 63.48 | 0.0524 |
|  | CT | 56.88 | 64.96 | **0.0015\*\*** | 55 | 67.02 | **0.0007\*\*** |
| **VLGTdistractionlist** | Controls | 9 | 78.269 | 0.2929 | 5.75 | 8.04 | 0.2233 |
|  | Non-CT | 6 | 7.28 | 0.089 | 5.166 | 7 | 0.0265 |
|  | CT | 6.94 | 8.64 | 0.0164 | 5.93 | 7.68 | 0.0131 |
| **VLGTshort delay recall** | Controls | 13.5 | 12.98 | 0.7293 | 14 | 13.65 | 0.8747 |
|  | Non-CT | 11.5 | 12.4 | 0.385 | 10 | 13.6 | 0.0426 |
|  | CT | 11.62 | 13.53 | **0.0088\*\*** | 11.88 | 14.66 | **0.0029\*\*** |
| **VLGTlong delay recall** | Controls | 14.25 | 13.44 | 0.215 | 14.25 | 14.26 | 0.992 |
|  | Non-CT | 11.5 | 13.2 | 0.0406 | 9.833 | 14.303 | 0.0186 |
|  | CT | 12.18 | 14.02 | 0.029 | 12.56 | 14.88 | **0.00974\*\*** |
| **VLGTproactive interf** | Controls | -0.042 | -0.0412 | 0.9881 | -0.0505 | -0.0775 | 0.7544 |
|  | Non-CT | -0.077 | -0.0328 | 0.6746 | -0.1984 | -0.0961 | 0.2889 |
|  | CT | -0.04368 | 0.0059 | 0.5718 | -0.064 | -0.1538 | 0.4055 |
| **VLGTretroactive interf** | Controls | -0.1066 | -0.1161 | 0.8709 | 0.01515 | -0.0782 | 0.5074 |
|  | Non-CT | -0.1608 | -0.1106 | 0.1684 | -0.1592 | -0.0657 | 0.2699 |
|  | CT | -0.1538 | -0.0855 | 0.0632 | -0.1166 | -0.0253 | 0.0636 |
| **D-KEFS TM visual scanning** | Controls | 17.75 | 17.33 | 0.8465 | 22.5 | 16 | 0.0292 |
|  | Non-CT | 21 | 19.2 | 0.322 | 19 | 18.78 | 0.9112 |
|  | CT | 20.69 | 17.23 | 0.0329 | 20.25 | 15.76 | **0.002\*\*** |
| **D-KEFS TM numbers** | Controls | 29.75 | 26.12 | 0.4643 | 31.25 | 23.13 | 0.0475 |
|  | Non-CT | 42.33 | 29.55 | 0.034 | 39 | 27.6 | 0.0232 |
|  | CT | 38.18 | 26 | **0.0033\*\*** | 35.37 | 22.2 | **0.0002\*\*** |
| **D-KEFS TM letters** | Controls | 29 | 27.79 | 0.7384 | 35.25 | 26.59 | 0.014 |
|  | Non-CT | 35.67 | 30.26 | 0.249 | 29.83 | 30.48 | 0.895 |
|  | CT | 38.44 | 25.61 | **0.0029\*\*** | 36.5 | 22.6 | **0.0022\*\*** |
| **D-KEFS TM switching** | Controls | 65 | 64.56 | 0.9686 | 72 | 60.81 | 0.082 |
|  | Non-CT | 92.5 | 76.44 | 0.2166 | 97.33 | 69.27 | 0.044 |
|  | CT | 93.06 | 57.67 | **0.0058\*\*** | 85.87 | 51.54 | **0.001\*\*** |
| **D-KEFS CW colour naming** | Controls | 26.75 | 28.36 | 0.2523 | 32.25 | 27.15 | 0.0479 |
|  | Non-CT | 27.83 | 28.26 | 0.8113 | 28.5 | 28.39 | 0.9665 |
|  | CT | 30.31 | 27.62 | 0.04 | 28.93 | 26.24 | 0.0126 |
| **D-KEFS CW word reading** | Controls | 23.5 | 19.94 | 0.255 | 23.75 | 19.69 | 0.0679 |
|  | Non-CT | 20.83 | 20.4 | 0.6251 | 20.83 | 20.42 | 0.7841 |
|  | CT | 23.13 | 20.3 | 0.0345 | 23.88 | 19.88 | **0.0029\*\*** |
| **D-KEFS CW inhibition** | Controls | 46.5 | 50.06 | 0.4949 | 49.75 | 48.65 | 0.7948 |
|  | Non-CT | 58.5 | 53.91 | 0.4974 | 58.33 | 52.06 | 0.5271 |
|  | CT | 60.62 | 49.189 | 0.0211 | 59.31 | 45.02 | **0.00043\*\*** |
| **D-KEFS CWinhibition/switching** | Controls | 67 | 53.31 | 0.2013 | 63.25 | 49.56 | 0.3305 |
|  | Non-CT | 59 | 54.97 | 0.4537 | 57.16 | 54.03 | 0.577 |
|  | CT | 65.5 | 53.34 | 0.0124 | 68 | 47.2 | **0.0006\*\*** |
| **Verbal fluency letters** | Controls | 34.5 | 41.39 | 0.0817 | 30.25 | 44.03 | 0.098 |
|  | Non-CT | 32.5 | 38.97 | 0.187 | 32.83 | 45.27 | 0.0298 |
|  | CT | 35.31 | 42.51 | 0.035 | 30.69 | 40.28 | **0.0001\*\*** |
| **Verbal fluency animals** | Controls | 29.25 | 27.94 | 0.5944 | 26.5 | 28.15 | 0.5022 |
|  | Non-CT | 22.17 | 26.37 | 0.027 | 20.33 | 25.78 | **0.0065\*\*** |
|  | CT | 24.19 | 26.65 | 0.1985 | 23.62 | 26.62 | 0.1049 |
| **Verbal fluency professions** | Controls | 17.75 | 19.88 | 0.3826 | 18.75 | 20.19 | 0.5961 |
|  | Non-CT | 16.33 | 19.14 | 0.124 | 13.33 | 20.03 | **0.0018\*\*** |
|  | CT | 17 | 18.5 | 0.2479 | 17.94 | 18.66 | 0.6211 |

CT, chemotherapy; interf, interference; VGLT, Verbale Leer- en Geheugen Test.