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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Author/**  **Year** | **Study type** | **N** | | **Assessment time/time since chemo** | **Cognitive domains reported** | **# of NS tests** | **Measure of NS tests** | **Info avail for mood** | **Notes** | **Combined N** |
| **Chemo** | **Control** |
| **EN#340\_**  **Collins 2009** | Cohort | 40-53 | Hormonal  40-43 | T0: after surgery before chemo T1: ~1 mo after comp of chemo  T2: ~1 y after T1 | Attention/working memory  Executive function  Inform Processing Speed  Motor Speed  Verbal Ability  Verbal Memory  Visual Memory  Visuospatial ability | 7  2  2  1  2  4  4  1 | M (SD) | Yes |  | Cohort N:  Chemo= 164-188  (with Wefel: 178-206)  (Tager, Jenkins, Ahles = 175)  Control:  Brca = 57  (Tager, Jenkins, Ahles = 146)  Healthy = 115  (Tager, Jenkins, Ahles = 94) |
| **EN#2237\_Bender 2006** | Cohort | 19-8 | Chemo+T  19-8  No-chemo  19-5 | T0: after surgery before chemo T1: within 1 wk of chemo comp T3: 1 y after T2 | Verbal Memory  Visual Memory | 6  2 | M (SE) | No | Perceived cognitive func. |
| **EN#248\_**  **Fan 2005** | Cohort | 100 | Healthy  100 | T0: after at least 3 cycles of tx  T1: 1y  T2: 2y | Attention/working memory  Executive function | 1  1 | Median, p | Yes | HSCS was categorized into  Normal/Borderline, Mild, Moderate/Severe |
| **EN#2246\_McDonald 2012** | Cohort | 16 | No-chemo  12  Healthy  15 | T0: after surgery, before radiation, chemo and/or hormonal tx  T1: 1 mo after comp of chemo  T2: 1 y after chemo | Attention/working memory | 4 | M (SD) | No | Imaging study |
| **EN#2242\_Wefel 2004** | Cohort | 18-14 |  | T0: before tx T1: ~6 mos after T0 T2: ~18 mos after T0 | Attention/working memory  Executive function  Inform Processing Speed  Motor Speed  Verbal Ability  Verbal Memory  Visual Memory  Visuospatial ability | 3  3  1  1  1  2  2  1 | M (SD) | Yes | No control gr |  |
| **EN#405\_**  **Tager 2010** | Cohort | 30 | No-chemo 31 | T1: pre-chemo  T2: within a mo post chemo  T3: 6 mo after T2 | Attention/working memory  Executive function  Motor Speed  Verbal Ability  Verbal Memory  Visual Memory  Visuospatial ability | 4  2  2  2  1  1  1 | Mean Z (SD) | Yes | - Baseline mean Z values, no individual values at different times but expressed as interaction with time i.e Time x Tx interaction effect on domain - Baseline Z values are age standardized | Not sure if we can extract usable data from these studies for meta analysis |
| **EN#268\_**  **Jenkins 2006** | Cohort | 85 | No-chemo 43  Healthy  49 | T0: baseline, but not clear when exactly (some were on endocrine tx already) T1: 4 wks after the final chemo T2: 12 mos after final chemo | Attention/working memory  Executive function  Verbal Memory  Visual Memory | 6  1  5  2 | For T0:  R2, F, p, ß, t, p  % Decline Improve Stable | Yes | - Reported as % decline, improved or stable from baseline  If we can use % change - Regression is for baseline |
| **EN#2247\_Ahles 2010** | Cohort | 60 | No-chemo 72  Healthy  45 | T0: after surgery before chemo T1: 1 mo after chemo T2: 6 mo after chemo T3: 18 mos after chemo | Processing speed  Verbal ability  Verbal memory  Visual memory  Working memory  Sorting  Distractibility  Reaction time  Block Design (not a domain) | Each is reported in summary | M (SD) | Yes | - Z-transformed on the basis of mean and SD of the scores of the healthy control group at baseline  - Only reports as domains and adjusted for age, education and baseline scores |

Ahles reported their summary as

Processing speed = Digit Symbol-Coding (WAIS-III), Trail Making Test (D-KEFS), Color-Word Inference Test (D-KEFS), Grooved Pegboard

Verbal ability = Vocabulary (WASI), Verbal Fleuency Test (Delis-Kaplan Executive Function System [D-KEFS])

Verbal memory = CVLT-II, Logical memory I and II (Wechsler memory scale-III [WMS-III])

Visual memory = Faces I and II (WMS-III)

Working memory = PASAT

Sorting = Sorting Test (D-KEFS)

Distractibility = CPT

Reaction time = CPT

Block Design