**Supplementary material**

**A Intentionality scores of verbs**

|  |  |  |
| --- | --- | --- |
| **0** | **1** | **2** |
| begynde ‘begin’ (full verb)behøve ‘need’bevæge sig ‘move’blive ‘stay’blive af ‘be’blive (til) objektiv tilstand ‘get objective state’blive væk ‘be gone’bonke ‘bunk’ (unconventional)brase ‘move violently’bruge ‘use’cirkle ‘circle’danne ‘form’dele sig ‘split oneself’dreje ‘turn’eksplodere ‘explode’ende ‘end (up)’falde (adv) ‘fall (adv)’fare ‘rush’findes ‘be’fise rundt ‘move around’flyde ‘float’flytte adv ‘move adv’flyve ‘fly’folde sig ud ‘unfold’foregå ‘happen’forestille ‘look like’forlade ‘leave’forme ‘form’forsvinde ‘disappear’fortsættea, b ‘continue’ (full verb)fåa ’get’gøreb ‘do’gå ‘go’ (about time, non-actual motion and location)gå af ‘go off’gå i stykker ‘break’halvere ‘halve’handle om ‘be about’have ‘have’hoppe ‘bounce’hænge (sammen/fast) ‘hang (together), stick’kaldes ‘is called’knække ‘snap’kommea ‘come’komme til syne ‘appear’kredse ‘circle, orbit’køre ‘go’lande ‘land’larme ‘make noice’lavea ‘do, make’lette ‘rise, take off’ligge ‘lie’ligne ‘look like, be like’lukke sig ‘close’ (unaccusative)lykkes ‘happen’lægge sig ‘lie down’løsne sig ‘loosen oneself’minde om ‘remind of’miste ‘lose’mødes ‘meet’nærme sig ‘approach’nå ‘reach’overleve ‘endure’passere ‘pass’ramme ‘hit, collide with’rejse ‘travel’rode rundt ‘move around’rokke ‘rock’rotere ‘rotate’rulle ‘roll’ryge adv ‘move adv’ryste ‘shake’røre ‘touch’samle ‘put together’sidde ‘sit’sidde fast ‘be stuck’ske ‘happen’skulle ‘shall’snurre ‘spin’spinde ‘spin’sprede sig ‘spread’springe ‘detonate’sprække ‘crack’starte ‘start’stille sig ‘stand’sætte sig ‘sit down’sætte sig fast ‘get stuck’stoppe ‘stop’støde ind i ‘bump into’stå ‘stay’svæve ‘levitate’tabe ‘lose, drop’tage ‘take’ (about time and direction)trille ‘roll’undgå ‘avoid’vende ‘face’vende tilbage ‘return’vibrere ‘vibrate’vælte rundt ‘tumble around’være objektiv tilstand ‘be objective state’åbne sig ‘open’ (unaccusative) | affyre *or* fyre af ‘fire’ane ‘sense’angribe ‘attack’ankomme ‘arrive’banke på/i ‘knock on/in’befri ‘free’bekymre sig ‘worry’bo ‘live (in a place)’blande ind i ‘involve’blive bare ‘be just’ (quotative)blive subjektiv tilstand ’get subjective state’bryde adv ‘break adv’bygge ‘build’bøffe ‘push gently’ (unconventional)cykle ‘bike’danse ‘dance’dele ‘split’fange ‘catch’fare ‘run’finde ‘find’finde ud af ‘find out’fjerne ‘remove’flygte ‘run away’flytte obj ‘move obj’flå ‘tear’fordele sig ‘spread out’forfølge ‘pursue’forstyrre ‘disturb’forstå ‘understand’forvirre ‘confuse’følge (efter) ‘follow’få øje på ‘notice’gemme sig ‘hide’gide ‘bother’gå ‘go, walk’gå amok ‘go crazy’gå i panik ‘panic’give slip ‘let go’hakke ‘peck’have det sjovt ‘have fun’have lyst til ‘want’hente ‘get, fetch’holde ’hold’holde inde ’keep in’holde øje ‘keep an eye’holde pause ‘take a break’hugge ‘strike’høre ‘listen’håndtere ‘handle’jage ‘hunt’jonglere ‘juggle’juble ‘cheer’kaste ‘throw’kigge ‘look’kilde ‘tickle’koble fra ‘disconnect’komme efter ‘come after’komme hjem ‘get home’kravle ‘crawl’krybe ‘crawl’lade ‘let’lade være ‘stop’lede ‘look for, search’lege ‘play’leve ‘live’lide ‘like’liste ‘sneak’lukke ‘close’lukke ind(e)/ud(e) ‘let in/out’lægge ‘put’lægge mærke til ‘notice’løbe ‘run’låse ‘lock’mase ‘press, push’miste kontrollen ‘lose control’myrde ‘kill’mærke ‘feel’nappe ‘nibble’narre ‘fool’opdage ‘realise, discover’pleje ‘use to’presse ‘press’prikke ‘poke’prøve ‘try’puffe ‘shove’redde ‘save’rende ‘run’ringe på ‘ring the doorbell’rive sig fri ‘break free’rode ‘make a mess’ryste på hovedet ‘shake one’s head’se ‘see’se følelse ud ’appear emotion’sende adv ‘send adv’sigte ‘aim’skille ‘split’skride ‘walk away’skubbe ‘push’skyde ‘shoot’skynde sig ‘hurry’skære ‘cut’slippe ‘let go’slippe adv ‘get adv’slå ‘hit, punch’smadre ‘shatter’smide ‘toss’smutte ‘slip away’smække døren ‘slam the door’snige sig ‘sneak’spille ‘play’splitte ‘split’springe ‘jump’spærre ‘block’sove ‘sleep’stabilisere sig ‘stabilise oneself’stige af ‘descend’stikke ‘poke’stikke af ‘run away’stjæle ‘steal’styre ‘control, steer’svømme ‘swim’synes ‘think’sætte ‘put’tage ‘take’ (trans)tage hjem ‘go home’teleportere sig ‘teleport oneself’tro ‘believe, think’trænge ‘press in a direction’tælle ‘count’tænke ‘think’udforske ‘explore’undersøge ‘investigate’vente ‘wait’vide ‘know’ville (have) ‘want’virke følelse ’appear emotion’vække ‘wake’være subjektiv tilstand ‘be subjective state’ødelægge ‘break’ (trans)åbne ‘open’ | bestemme over ‘rule’bevise ‘proof’blive venner ‘become friends’diskuterec ‘discuss’drille ‘tease’fablec ‘rant’finde sammen ‘get together’forvirre ‘confuse’give klør fem/high five ‘give high five’hjælpe ‘help’holde udenfor ‘keep out’indespærre ‘imprison’irritere ‘annoy’jagte ‘chase’klagec ‘complain’kramme ‘hug’kysse ‘kiss’kæmpe ‘fight’lege leg ’play play’lokke ‘lure’mobbe ‘bully’redde ‘save’sigec ‘say’skælde udc ‘scold’skændesc ‘fight verbally’snakkec ‘talk’snyde ‘cheat’spørge ‘ask’svare igenc ‘answer back’talec ‘talk’true ‘threaten’trøstec ‘comfort’vise ‘show’+ direct speechc |

a. Clauses with verbs that take an anaphoric pronoun as object are scored as if they occurred with the relevant specification of the object. For instance, *fortsætte med det*‘continue with that’ is scored like *fortsætte med at kaste bolden* ‘continue to throw the ball’ if *det* ‘that’ refers to *kaste bolden* ‘throw the ball’.

b.Clauses that get their specific event meaning from the verb in combination with another element in the clause are scored according to the full phrase. For instance, *komme slagsmål* ‘turn into a fight’ and *lave ballade* ‘make trouble’ get 2; *komme i klemme* ‘get stuck (lit. come into clip)’ and *lave en stjerne* ‘form a star’ get 0.

c.Communication verbs and direct speech always get a score of 2 (see the text).

**B Relevance Indices**

*Social Attribution Task* (SAT)

1. There is a rectangle which can open.
2. There is a big triangle in the rectangle.
3. A small triangle and a circle enter/are there.
4. The big triangle opens the rectangle or exits.
5. The big triangle and the small triangle push/poke/chase each other *or* The big triangle pushes/pokes/chases the small triangle.
6. The circle enters the rectangle.
7. The big triangle enters/is in the rectangle.
8. The big triangle closes the rectangle.
9. The small triangle lets the circle out *or* opens the rectangle so that the circle gets/can get out.
10. The big triangle opens the rectangle or exits.
11. The big triangle chases the small triangle *or* The big triangle, the small triangle and the circle chase each other.
12. The small triangle and the circle disappear.
13. The big triangle shatters the rectangle/door.

*Physical Attribution Task* (PAT)

1. There is a circle1.
2. There is a figure.
3. Circle1 rotates/moves around.
4. Circle2 circles around circle1 or moves in and out of the screen.
5. Figure loses contact with circle1.
6. Figure moves around circle1.
7. Top and bottom of figure split.
8. Top moves onto circle2.
9. Bottom disappears/moves away.
10. Top and circle2 move.
11. Top moves away from circle2.
12. Circle3 and triangle split.
13. Circle3 moves onto circle1.

The children do not have to use the exact wording of the Relevance Index. The point is whether they describe the events with all the participants involved and the type of action mentioned.

The subscripted numbers after the word *circle* in the Relevance Index for PAT indicate which figure is referred to in the video where three circles appear.

**C Regression models**

Step 1 of the regression models models the dependent variable as a function of relevant control variables. Memory is always used as a control variable, and the four language measures (receptive and expressive vocabulary and grammar) are included in models without children with DLD. In step 2 of the models, group or task is added to see if this variable significantly improves the basic step 1 model. The confidence intervals and the standard errors of the beta values as well as the *p* values of the individual variables are based on 1000 bootstrap samples.

Models of length

SAT length: ASD and DLD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .001 |  |  |  |  |  |
| Intercept |  | 31.64[5.76, 57.35] | 12.82 |  | 2.25 | .02 |
| Memory |  | .21[-1.94, 2.62] | 1.12 | .03 | 0.18 | .84 |
| **Step 2** | .017 |  |  |  |  |  |
| Intercept |  | 22.98[2.32, 51.55] | 12.47 |  | 1.27 | .08 |
| Memory |  | .44[-1.56, 2.60] | 1.03 | .06 | .35 | .66 |
| Group |  | 4.71[-6.10, 14.83] | 5.36 | .13 | .78 | .38 |

a. Dependent variable: number of clauses.

b. Step 1: *F*(1, 38) = .03, *p* = .86. Step 2: *F*(1, 37) = .32, *p* = .73. Difference: Δ*R*2 = .016, Δ*F* = .60, *p* = .44.

SAT length: ASD and TD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .149 |  |  |  |  |  |
| Intercept |  | 66.70[-35.52, 230.03] | 64.04 |  | 1.25 | .22 |
| Expressive gram. |  | .72[-.92, 1.58] | .61 | .27 | 1.37 | .21 |
| Receptive gram. |  | -1.75[-3.54, .47] | 1.03 | -.32 | -1.74 | .10 |
| Expressive vocab. |  | -.12[-1.31, 1.04] | .59 | -.04 | -.22 | .85 |
| Receptive vocab. |  | .59[.08, 1.16] | .27 | .40 | 2.43 | .04 |
| Memory |  | -1.08[-3.99, 1.53] | 1.39 | -.13 | -.88 | .44 |
| **Step 2** | .286 |  |  |  |  |  |
| Intercept |  | 69.87[-40.83, 222.27] | 63.04 |  | 1.42 | .24 |
| Expressive gram. |  | .41[-1.08, 1.33] | .64 | .15 | .83 | .50 |
| Receptive gram. |  | -1.47[-3.38, 1.01] | 1.18 | -.27 | -1.58 | .24 |
| Expressive vocab. |  | -.09[-1.06, .89] | .50 | -.03 | -.18 | .86 |
| Receptive vocab. |  | .49[.05, 1.00] | .24 | .33 | 2.16 | .04 |
| Memory |  | -1.17[-3.61, 1.23] | 1.19 | -.14 | -1.03 | .32 |
| Group |  | 7.86[2.88, 13.23] | 2.57 | .39 | 3.23 | .007 |

a. Dependent variable: number of clauses.

b. Step 1: *F*(5, 55) = 1.92, *p* = .12. Step 2: *F*(6, 54) = 3.61, *p* = .004. Difference: Δ*R*2 = .138, Δ*F* = 10.43, *p* = .002.

SAT length: DLD and TD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .000 |  |  |  |  |  |
| Intercept |  | 47.33[20.41, 78.15] | 14.37 |  | 3.34 | .006 |
| Memory |  | -.02[-2.35, 2.12] | 1.11 | -.003 | -.02 | .98 |
| **Step 2** | .118 |  |  |  |  |  |
| Intercept |  | 16.45[-15.49, 50.13] | 17.63 |  | .88 | .36 |
| Memory |  | -.90[-3.23, 1.34] | 1.14 | -.12 | -.79 | .41 |
| Group |  | 15.21[4.38, 27.35] | 5.88 | .36 | 2.38 | .02 |

a. Dependent variable: number of clauses.

b. Step 1: *F*(1, 43) = .00, *p* = .98. Step 2: *F*(2, 42) = 2.82, *p* = .07. Difference: Δ*R*2 = .118, Δ*F* = 5.66, *p* = .02.

PAT length: ASD and DLD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .001 |  |  |  |  |  |
| Intercept |  | 27.76[9.54, 45.43] | 9.05 |  | 3.13 | .005 |
| Memory |  | -.144[-1.68, 1.38] | .78 | -.04 | -.20 | .85 |
| **Step 2** | .001 |  |  |  |  |  |
| Intercept |  | 27.67[5.27, 47.30] | 10.21 |  | 2.41 | .01 |
| Memory |  | -.14[-1.62, 1.46] | .79 | -.03 | -.18 | .84 |
| Group |  | .05[-6.52, 7.48] | 3.56 | .002 | .01 | .99 |

a. Dependent variable: number of clauses.

b. Step 1: *F*(1, 31) = .04, *p* = .85. Step 2: *F*(2, 30) = 0.18, *p* = .98. Difference: Δ*R*2 = .0, Δ*F* = .0, *p* = .99.

PAT length: ASD and TD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .171 |  |  |  |  |  |
| Intercept |  | 3.36[-49.88, 82.75] | 32.18 |  | .13 | .89 |
| Expressive gram. |  | -.09[-.89, .36] | .32 | -.06 | -.30 | .76 |
| Receptive gram. |  | .13[-.77, 1.32] | .52 | .05 | .27 | .80 |
| Expressive vocab. |  | -.02[-55, .58] | .29 | -.02 | -.09 | .94 |
| Receptive vocab. |  | .29[.07, .46] | .10 | .43 | 2.62 | .007 |
| Memory |  | -.13[-1.52, 1.32] | .69 | -.03 | -.21 | .83 |
| **Step 2** | .261 |  |  |  |  |  |
| Intercept |  | 4.83[-51.01, 72.69] | 30.45 |  | .20 | .86 |
| Expressive gram. |  | -.21[-1.01, .27] | .32 | -.15 | -.75 | .48 |
| Receptive gram. |  | .20[-.70, 1.48] | .56 | .08 | .43 | .73 |
| Expressive vocab. |  | -.02[-.48, .62] | .27 | .01 | .08 | .95 |
| Receptive vocab. |  | .26[.04, .43] | .10 | .39 | 2.44 | .01 |
| Memory |  | -.15[-1.42, 1.32] | .66 | -.04 | -.25 | .81 |
| Group |  | 2.85[.31, 5.18] | 1.23 | .31 | 2.46 | .03 |

a. Dependent variable: number of clauses.

b. Step 1: *F*(5, 51) = 2.11, *p* = .08. Step 2: *F*(6, 50) = 2.95, *p* = .02. Difference: Δ*R*2 = .090, Δ*F* = 6.07, *p* = .02.

PAT length: DLD and TD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .003 |  |  |  |  |  |
| Intercept |  | 28.84[15.33, 43.77] | 7.29 |  | 4.21 | <.001 |
| Memory |  | .19[-1.01, 1.26] | .59 | .05 | .34 | .77 |
| **Step 2** | .088 |  |  |  |  |  |
| Intercept |  | 14.63[-8.55, 34.89] | 10.88 |  | 1.47 | .17 |
| Memory |  | -.12[-1.39, 1.03] | .62 | -.03 | -.21 | .86 |
| Group |  | 6.44[-1.26, 13.27] | 3.45 | .31 | 1.91 | .07 |

a. Dependent variable: number of clauses.

b. Step 1: *F*(1, 40) = .12, *p* = .74. Step 2: *F*(2, 39) = 1.88, *p* = .17. Difference: Δ*R*2 = .085, Δ*F* = 3.64, *p* = .06.

Models of intentionality score

SAT intentionality score: ASD and DLD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .015 |  |  |  |  |  |
| Intercept |  | .91[.63, 1.19] | .14 |  | 6.37 | <.001 |
| Memory |  | -.01[-.03, .02] | .01 | -.12 | -.75 | .46 |
| **Step 2** | .031 |  |  |  |  |  |
| Intercept |  | 1.00[.66, 1.36] | .18 |  | 5.46 | <.001 |
| Memory |  | -.01[-.04, .01] | .01 | -.15 | -.91 | .37 |
| Group |  | -.05[-.17, .06] | .06 | -.13 | -.79 | .44 |

a. Dependent variable: intentionality score.

b. Step 1: *F*(1, 38) = .56, *p* = .46. Step 2: *F*(2, 37) = .59, *p* = .56. Difference: Δ*R*2 = .016, Δ*F* = .62, *p* = .44.

SAT intentionality score: ASD and TD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .025 |  |  |  |  |  |
| Intercept |  | 1.15[-.49, 2.20] | .66 |  | 2.30 | .08 |
| Expressive gram. |  | -.002[-.01, .02] | .01 | -.10 | -.49 | .73 |
| Receptive gram. |  | .03[-.02, .02] | .01 | .001 | .003 | 1.00 |
| Expressive vocab. |  | -.001[-.01, .01] | .01 | -.04 | -.19 | .88 |
| Receptive vocab. |  | -.001[-.01, 004] | .003 | -.06 | -.35 | .77 |
| Memory |  | .005[-.03, .03] | .01 | .06 | .40 | .69 |
| **Step 2** | .025 |  |  |  |  |  |
| Intercept |  | 1.15[-.49, 2.17] | .66 |  | 2.29 | .08 |
| Expressive gram. |  | -.003[-.01, .01] | .01 | -.11 | -.51 | .72 |
| Receptive gram. |  | .000[-.02, .02] | .01 | .004 | .02 | .98 |
| Expressive vocab. |  | -.001[-01, .01] | .01 | -.04 | -.19 | .88 |
| Receptive vocab. |  | -.001[-.01, .01] | .003 | -.07 | -.37 | .76 |
| Memory |  | .01[-03, 0.3] | .01 | .06 | .40 | .68 |
| Group |  | .004[-.05, -.05] | .03 | .03 | .17 | .85 |

a. Dependent variable: intentionality score.

b. Step 1: *F*(5, 55) = .28, *p* = .92. Step 2: *F*(6, 54) = .23, *p* = .96. Difference: Δ*R*2 = .001, Δ*F* = .03, *p* = .86.

SAT intentionality score: DLD and TD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .049 |  |  |  |  |  |
| Intercept |  | -.001[.43, .81] | .09 |  | 5.27 | <.001 |
| Memory |  | -.003[.001, .03] | .01 | .22 | 1.49 | .04 |
| **Step 2** | .049 |  |  |  |  |  |
| Intercept |  | -.001[.32, .89] | .14 |  | 3.70 | <.001 |
| Memory |  | .000[.000, .03] | .01 | .22 | 1.37 | .06 |
| Group |  | -.001[-.12, .12] | .05 | .01 | .07 | .93 |

a. Dependent variable: intentionality score.

b. Step 1: *F*(1, 43) = 2.22, *p* = .14. Step 2: *F*(2, 42) = 1.08, *p* = .35. Difference: Δ*R*2 = .0, Δ*F* = .004, *p* = .95.

PAT intentionality score: ASD and DLD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .091 |  |  |  |  |  |
| Intercept |  | .37[.16, .55] | .10 |  | 2.99 | <.001 |
| Memory |  | -.02[-.03, .000] | .01 | -.30 | -1.76 | .03 |
| **Step 2** | .132 |  |  |  |  |  |
| Intercept |  | .26[-.02, .59] | .15 |  | 1.63 | .10 |
| Memory |  | -.02[-.03, .003] | .01 | -.25 | -1.40 | .11 |
| Group |  | .06[-.06, .15] | .05 | .21 | 1.19 | .22 |

a. Dependent variable: intentionality score.

b. Step 1: *F*(1, 31) = 3.09, *p* = .09. Step 2: *F*(2, 30) = 2.28, *p* = .12. Difference: Δ*R*2 = .041, Δ*F* = 1.42, *p* = .24.

PAT intentionality score: ASD and TD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .152 |  |  |  |  |  |
| Intercept |  | -.06[-.64, .76] | .33 |  | -.20 | .81 |
| Expressive gram. |  | .001[-.01, .01] | .003 | .08 | .38 | .70 |
| Receptive gram. |  | .01[-.01, .02] | .01 | .24 | 1.26 | .29 |
| Expressive vocab. |  | -.004[-.01, .002] | .003 | -.26 | -1.39 | .22 |
| Receptive vocab. |  | .000[-.002, .003] | .001 | .04 | .26 | .77 |
| Memory |  | -.02[-.04, -.01] | .01 | -.41 | -2.69 | .01 |
| **Step 2** | .170 |  |  |  |  |  |
| Intercept |  | -.07[-.62, .77] | .33 |  | -.23 | .80 |
| Expressive gram. |  | .002[-.01, .01] | .003 | .11 | .55 | .55 |
| Receptive gram. |  | .01[-.01, .02] | .01 | .23 | 1.20 | .31 |
| Expressive vocab. |  | -.004[-.01, .002] | .004 | -.27 | -1.46 | .23 |
| Receptive vocab. |  | .001[-.002, .003] | .001 | .06 | .38 | .67 |
| Memory |  | -.02[-.04, -.01] | .01 | -.41 | -2.68 | .01 |
| Group |  | -.02[-.05, .01] | .02 | -.14 | -1.05 | .33 |

a. Dependent variable: intentionality score.

b. Step 1: *F*(5, 51) = 1.83, *p* = .12. Step 2: *F*(6, 50) = 1.71, *p* = .14. Difference: Δ*R*2 = .018, Δ*F* = 1.10, *p* = .30.

PAT intentionality score: DLD and TD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .158 |  |  |  |  |  |
| Intercept |  | .32[.20, .43] | .06 |  | 4.41 | <.001 |
| Memory |  | -.02[-.03, -.01] | .01 | -.40 | -2.74 | .003 |
| **Step 2** | .285 |  |  |  |  |  |
| Intercept |  | .52[.32, .71] | .10 |  | 5.11 | <.001 |
| Memory |  | -.01[-.02, -.003] | .01 | -.29 | -2.06 | .01 |
| Group |  | -.09[-.17, -.01] | .04 | -.37 | -2.63 | .03 |

a. Dependent variable: intentionality score.

b. Step 1: *F*(1, 40) = 7.52, *p* = .009. Step 2: *F*(2, 39) = 7.77, *p* = .001. Difference: Δ*R*2 = .127, Δ*F* = 6.91, *p* = .01.

ASD intentionality scores: SAT and PAT

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .096 |  |  |  |  |  |
| Intercept |  | 1.37[-.71, 3.58] | 1.09 |  | 1.48 | .21 |
| Expressive gram. |  | -.01[-.02, .02] | .01 | -.11 | -.49 | .67 |
| Receptive gram. |  | .01[-.03, .04] | .02 | .12 | .56 | .55 |
| Expressive vocab. |  | -.01[-.03, .02] | .01 | -.12 | -.54 | .59 |
| Receptive vocab. |  | -.01[-.02, .01] | .01 | -.18 | -1.01 | .32 |
| Memory |  | -.02[-.07, .04] | .03 | -.09 | -.60 | .56 |
| **Step 2** | .864 |  |  |  |  |  |
| Intercept |  | 2.22[1.29, 3.08] | .45 |  | 6.09 | <.001 |
| Expressive gram. |  | -.002[-.01, .01] | .01 | -.04 | -.40 | .76 |
| Receptive gram. |  | .003[-.01, .02] | .01 | .03 | .39 | .75 |
| Expressive vocab. |  | -.003[-.01, .01] | .01 | -.06 | -.76 | .53 |
| Receptive vocab. |  | -.01[-.01, .00] | .003 | -.14 | -2.00 | .09 |
| Memory |  | -.01[-.04, .01] | .01 | -.07 | -1.20 | .26 |
| Task |  | -.67[-.75, -.57] | .04 | -.88 | -15.94 | <.001 |

a. Dependent variable: intentionality score.

b. Step 1: *F*(5, 46) = .98, *p* = .44. Step 2: *F*(6, 45) = 47.65, *p* < .001. Difference: Δ*R*2 = .768, Δ*F* = 254.00, *p* < .001.

DLD intentionality scores: SAT and PAT

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .000 |  |  |  |  |  |
| Intercept |  | .55[-.14, 1.24] | .35 |  | 1.58 | .11 |
| Memory |  | -.001[-.07, .07] | .03 | -.01 | -.02 | .99 |
| **Step 2** | .843 |  |  |  |  |  |
| Intercept |  | 1.34[1.04, 1.67] | .16 |  | 8.26 | <.001 |
| Memory |  | .001[-.03, .02] | .01 | .01 | .07 | .92 |
| Group |  | -.57[-.68, -.46] | .06 | -.92 | -9.83 | <.001 |

a. Dependent variable: intentionality score.

b. Step 1: *F*(1, 19) = .00, *p* = .98. Step 2: *F*(2, 18) = 48.33, *p* < .001. Difference: Δ*R*2 = .843, Δ*F* = 96.65, *p* < .001.

TD intentionality scores: SAT and PAT

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .017 |  |  |  |  |  |
| Intercept |  | -.83[-3.60, 1.88] | 1.38 |  | -.55 | .54 |
| Expressive gram. |  | .01[-.03, .04] | .02 | .10 | .51 | .60 |
| Receptive gram. |  | .01[-.04, .06] | .03 | .05 | .29 | .76 |
| Expressive vocab. |  | -.001[-.03, .03] | .01 | -.02 | -.09 | .94 |
| Receptive vocab. |  | .001[-.01, .01] | .01 | .04 | .26 | .81 |
| Memory |  | -.01[-.06, .04] | .03 | -.06 | -.38 | .75 |
| **Step 2** | .893 |  |  |  |  |  |
| Intercept |  | .24[-1.01, 1.38] | .63 |  | .46 | .70 |
| Expressive gram. |  | .01[-.01, .02] | .01 | .10 | 1.53 | .18 |
| Receptive gram. |  | .01[-.01, .03] | .01 | .05 | .86 | .39 |
| Expressive vocab. |  | -.001[-.01, .01] | .004 | -.02 | -.27 | .82 |
| Receptive vocab. |  | .001[-.002, .004] | .002 | .04 | .77 | .47 |
| Memory |  | -.01[-.03, .01] | .01 | -.06 | -1.14 | .34 |
| Task |  | -.71[-.77, -65] | .03 | -.94 | -22.00 | <.001 |

a. Dependent variable: intentionality score.

b. Step 1: *F*(5, 60) = .20, *p* = .96. Step 2: *F*(6, 59) = 82.17, *p* < .001. Difference: Δ*R*2 = .876, Δ*F* = 483.79, *p* < .001.

Models of relevance scores

SAT relevance scores (total): ASD and DLD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .018 |  |  |  |  |  |
| Intercept |  | 8.34[1.62, 15.18] | 3.32 |  | 2.23 | .02 |
| Memory |  | .26[-.31] | .29 | .13 | .83 | .38 |
| **Step 2** | .036 |  |  |  |  |  |
| Intercept |  | 5.87[-2.34, 15.76] | 4.43 |  | 1.23 | .17 |
| Memory |  | .33[-.33, .96] | .31 | .17 | 1.00 | .27 |
| Group |  | 1.34[-1.92, 4.10] | 1.49 | .14 | .83 | .35 |

a. Dependent variable: relevance score (total).

b. Step 1: *F*(1, 38) = .69, *p* = .41. Step 2: *F*(2, 37) = .69, *p* = .51. Difference: Δ*R*2 = .018, Δ*F* = .70, *p* = .41.

SAT relevance scores (total): ASD and TD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .132 |  |  |  |  |  |
| Intercept |  | 5.85[-22.27, 44.04] | 16.38 |  | .39 | .68 |
| Expressive gram. |  | .20[-.22, 44] | .17 | .27 | 1.33 | .20 |
| Receptive gram. |  | -.33[-86, 29] | .28 | -.21 | -.1.16 | .24 |
| Expressive vocab. |  | .06[-.24, .37] | .15 | .07 | .39 | .70 |
| Receptive vocab. |  | .10[-.03, .22] | .06 | .25 | 1.50 | .11 |
| Memory |  | -.06[-.74, .69] | .36 | -.02 | -.16 | .87 |
| **Step 2** | .348 |  |  |  |  |  |
| Intercept |  | 6.95[-17.74, 38.03] | 14.30 |  | .54 | .61 |
| Expressive gram. |  | .09[-.25, 30] | .14 | .12 | .68 | .50 |
| Receptive gram. |  | -.23[-.66, .37] | .26 | -.15 | -.93 | .37 |
| Expressive vocab. |  | .07[-.16, .30] | .12 | .09 | .52 | .56 |
| Receptive vocab. |  | .07[-.05, .19] | .06 | .16 | 1.10 | .28 |
| Memory |  | -.09[-.69, .53] | .31 | -.04 | -.29 | .76 |
| Group |  | 2.73[1.39, 3.91] | .66 | .49 | 4.24 | <.001 |

a. Dependent variable: relevance score (total).

b. Step 1: *F*(5, 55) = 1.67, *p* = .16. Step 2: *F*(6, 54) = 4.81, *p* < .001. Difference: Δ*R*2 = .217, Δ*F* = 17.97, *p* < .001.

SAT relevance scores (total): DLD and TD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .029 |  |  |  |  |  |
| Intercept |  | 11.71[4.76, 18.87] | 3.55 |  | 3.15 | .02 |
| Memory |  | .34[-.22, .84] | .26 | .17 | 1.13 | .38 |
| **Step 2** | .213 |  |  |  |  |  |
| Intercept |  | 1.48[-5.75, 9.46] | 3.69 |  | .32 | .17 |
| Memory |  | .05[-.43, .53] | .25 | .02 | .17 | .27 |
| Group |  | 5.04[1.93, 7.98] | 1.55 | .45 | 3.13 | .35 |

a. Dependent variable: relevance score (total).

b. Step 1: *F*(1, 43) = 1.29, *p* = .26. Step 2: *F*(2, 42) = 5.68, *p* = .007. Difference: Δ*R*2 = .184, Δ*F* = 9.81, *p* = .003.

PAT relevance scores (total): ASD and DLD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .051 |  |  |  |  |  |
| Intercept |  | 8.83[2.61, 16.81] | 3.67 |  | 1.95 | .02 |
| Memory |  | .49[-.24, 1.04] | .32 | .23 | 1.29 | .13 |
| **Step 2** | .054 |  |  |  |  |  |
| Intercept |  | 7.73[-1.35, 17.32] | 4.85 |  | 1.32 | .10 |
| Memory |  | .52[-.22, 1.13] | .34 | .24 | 1.31 | .12 |
| Group |  | .57[-2.07, 3.30] | 1.38 | .06 | .30 | .67 |

a. Dependent variable: relevance score (total).

b. Step 1: *F*(1, 31) = 1.67, *p* = .21. Step 2: *F*(2, 30) = .86, *p* = .44. Difference: Δ*R*2 = .003, Δ*F* = .09, *p* = .77.

PAT relevance scores (total): ASD and TD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .149 |  |  |  |  |  |
| Intercept |  | -7.35[-40.39, 27.22] | 16.97 |  | -.53 | .61 |
| Expressive gram. |  | .04[-.30, .34] | .16 | .05 | .27 | .77 |
| Receptive gram. |  | .10[-.43, .76] | .29 | .07 | .38 | .71 |
| Expressive vocab. |  | .02[-.23, .27] | .13 | .03 | .16 | .85 |
| Receptive vocab. |  | .11[.01, .21] | .05 | .29 | 1.73 | .04 |
| Memory |  | .06[-.54, .71] | .32 | .03 | .17 | .86 |
| **Step 2** | .338 |  |  |  |  |  |
| Intercept |  | -6.17[-41.12, 21.98] | 15.36 |  | -.50 | .62 |
| Expressive gram. |  | -.05[-.36, .22] | .15 | -.07 | -.37 | .70 |
| Receptive gram. |  | .15[-.33, .84] | .28 | .11 | .64 | .56 |
| Expressive vocab. |  | .06[-.15, .30] | .12 | .07 | .44 | .62 |
| Receptive vocab. |  | .08[-.02, .19] | .05 | .22 | 1.49 | .10 |
| Memory |  | .04[-.48, .67] | .29 | .02 | .14 | .88 |
| Group |  | 2.27[1.01, 3.54] | .65 | .45 | 3.78 | <.001 |

a. Dependent variable: relevance score (total).

b. Step 1: *F*(5, 51) = 1.79, *p* = .13. Step 2: *F*(6, 50) = 4.26, *p* = .002. Difference: Δ*R*2 = .189, Δ*F* = 14.28, *p* < .001.

PAT relevance scores (total): DLD and TD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .094 |  |  |  |  |  |
| Intercept |  | 12.56[7.22, 18.67] | 3.00 |  | 4.20 | <.001 |
| Memory |  | .49[.02, .93] | .23 | .31 | 2.04 | .03 |
| **Step 2** | .302 |  |  |  |  |  |
| Intercept |  | 2.39[-3.04, 8.67] | 3.00 |  | .60 | .43 |
| Memory |  | .27[-.15, .68] | .21 | .17 | 1.22 | .18 |
| Group |  | 4.61[2.14, 6.88] | 1.18 | .48 | 3.41 | <.001 |

a. Dependent variable: relevance score (total).

b. Step 1: *F*(1, 40) = 4.17, *p* = .048. Step 2: *F*(2, 39) = 8.45, *p* < .001. Difference: Δ*R*2 = .208, Δ*F* = 11.62, *p* = .002.

SAT relevance scores (new): ASD and DLD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .000 |  |  |  |  |  |
| Intercept |  | 4.71[.80, 8.29] | 1.92 |  | 2.19 | .01 |
| Memory |  | -.01[-.33, .36] | .17 | -.01 | -.03 | .97 |
| **Step 2** | .080 |  |  |  |  |  |
| Intercept |  | 7.69[3.01, 12.18] | 2.25 |  | 2.88 | .002 |
| Memory |  | -.08[-.40, .25] | .17 | -.07 | -.44 | .63 |
| Group |  | -1.62[-2.93, -.31] | .67 | -.29 | -1.80 | .03 |

a. Dependent variable: relevance score (new).

b. Step 1: *F*(1, 38) = .001, *p* = .97. Step 2: *F*(2, 37) = 1.61, *p* = .21. Difference: Δ*R*2 = .080, Δ*F* = 3.22, *p* = .08.

SAT relevance scores (new): ASD and TD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .088 |  |  |  |  |  |
| Intercept |  | -1.11[-16.46, 12.08] | 7.40 |  | -.15 | .89 |
| Expressive gram. |  | -.04[-.21, .08] | .08 | -.12 | -.60 | .50 |
| Receptive gram. |  | .17[-.07, .40] | .12 | .22 | 1.18 | .17 |
| Expressive vocab. |  | .04[-.09, .22] | .08 | .09 | .46 | .65 |
| Receptive vocab. |  | -.07[-.15, -.02] | .03 | -.36 | -2.12 | .03 |
| Memory |  | .09[-.20, .46] | .17 | .08 | .52 | .58 |
| **Step 2** | .314 |  |  |  |  |  |
| Intercept |  | -1.66[-14.01, 11.41] | 6.74 |  | -.25 | .81 |
| Expressive gram. |  | .01[-.15, .13] | .07 | .03 | .14 | .87 |
| Receptive gram. |  | .12[-.13, .31] | .11 | .16 | .95 | .29 |
| Expressive vocab. |  | .03[-.08, .19] | .07 | .08 | .45 | .67 |
| Receptive vocab. |  | -.05[-.12, -.01] | .03 | -.27 | -1.81 | .07 |
| Memory |  | .11[-.15, .40] | .14 | .09 | .69 | .45 |
| Group |  | -1.36[-2.08, -.74] | .34 | -.50 | -4.21 | .002 |

a. Dependent variable: relevance score (new).

b. Step 1: *F*(5, 55) = 1.07, *p* = .39. Step 2: *F*(6, 54) = 4.11, *p* = .002. Difference: Δ*R*2 = .225, Δ*F* = 17.72, *p* < .001.

SAT relevance scores (new): DLD and TD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .003 |  |  |  |  |  |
| Intercept |  | 2.19[-.35, 4.82] | 1.34 |  | 1.62 | .10 |
| Memory |  | .04[-.17, .25] | .11 | .06 | .37 | .71 |
| **Step 2** | .119 |  |  |  |  |  |
| Intercept |  | 5.12[2.27, 8.11] | 1.50 |  | 2.86 | .004 |
| Memory |  | .12[-.10, .34] | .11 | .17 | 1.13 | .26 |
| Group |  | -1.44[-2.48, -.47] | .51 | -.36 | -2.35 | .008 |

a. Dependent variable: relevance score (new).

b. Step 1: *F*(1, 43) = .14, *p* = .71. Step 2: *F*(2, 42) = 2.84, *p* = .07. Difference: Δ*R*2 = .116, Δ*F* = 5.53, *p* = .02.

PAT relevance scores (new): ASD and DLD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .025 |  |  |  |  |  |
| Intercept |  | 2.35[-.89, 6.08] | 1.78 |  | 1.02 | .18 |
| Memory |  | .17[-.16, .47] | .16 | .16 | .89 | .29 |
| **Step 2** | .029 |  |  |  |  |  |
| Intercept |  | 1.69[-3.37, 8.09] | 2.87 |  | .57 | .53 |
| Memory |  | .19[-.20, .51] | .18 | .18 | .94 | .29 |
| Group |  | .35[-1.90, 2.14] | 1.01 | .07 | .36 | .73 |

a. Dependent variable: relevance score (new).

b. Step 1: *F*(1, 31) = .79, *p* = .38. Step 2: *F*(2, 30) = .45, *p* = .64. Difference: Δ*R*2 = .004, Δ*F* = .13, *p* = .72.

PAT relevance scores (new): ASD and TD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .094 |  |  |  |  |  |
| Intercept |  | 15.84[-2.92, 29.95] | 8.12 |  | 2.40 | .04 |
| Expressive gram. |  | -.05[-.20, .11] | .07 | -.13 | -.61 | .51 |
| Receptive gram. |  | -.06[-.31, .17] | .12 | -.09 | -.46 | .61 |
| Expressive vocab. |  | -.02[-.14, .12] | .06 | -.05 | -.25 | .79 |
| Receptive vocab. |  | -.02[-.07, .02] | .02 | -.17 | -.73 | .37 |
| Memory |  | .02[-.28, .29] | .14 | .02 | .12 | .89 |
| **Step 2** | .137 |  |  |  |  |  |
| Intercept |  | 15.59[-3.07, 29.02] | 7.96 |  | 2.39 | .05 |
| Expressive gram. |  | -.03[-.17, .13] | .08 | -.07 | -.33 | .73 |
| Receptive gram. |  | -.07[-35, .14] | .12 | -.11 | -.56 | .57 |
| Expressive vocab. |  | -.02[-.14, .10] | .06 | -.07 | -.36 | .68 |
| Receptive vocab. |  | -.02[-.06, .03] | .02 | -.10 | -.56 | .52 |
| Memory |  | .02[-.29, .28] | .14 | .02 | .15 | .86 |
| Group |  | -.49[-1.15, .14] | .33 | -.21 | -1.57 | .13 |

a. Dependent variable: relevance score (new).

b. Step 1: *F*(5, 51) = 1.06, *p* = .39. Step 2: *F*(6, 50) = 1.32, *p* = .27. Difference: Δ*R*2 = .043, Δ*F* = 2.48, *p* = .12.

PAT relevance scores (new): DLD and TD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***R*2** | ***b*** | ***SE B*** | ***β*** | ***t*** | ***p*** |
| **Step 1** | .025 |  |  |  |  |  |
| Intercept |  | 5.16[2.26, 7.87] | 1.45 |  | 2.95 | <.001 |
| Memory |  | -.14[-.34, .09] | .11 | -.16 | -1.02 | .19 |
| **Step 2** | .068 |  |  |  |  |  |
| Intercept |  | 7.74[2.70, 13.06] | 2.65 |  | 2.97 | .005 |
| Memory |  | -.09[-.33, .18] | .13 | -.10 | -.61 | .49 |
| Group |  | -1.17[-3.24, .98] | 1.01 | -.22 | -1.33 | .24 |

a. Dependent variable: relevance score (new).

b. Step 1: *F*(1, 40) = 1.05, *p* = .31. Step 2: *F*(2, 39) = 1.42, *p* = .26. Difference: Δ*R*2 = .042, Δ*F* = 1.77, *p* = .19.