**Supplementary Materials C**

**Types of Causal Structures in Parental Input**

Lexical Causal Verbs - T1

|  |  |  |
| --- | --- | --- |
| **T1 (N=77)** | **63 different lexical causal verbs** |  |
| **Turkish** | **English** | **Frequency** |
| yap | do | 72 |
| at | throw | 62 |
| koy | put | 57 |
| aç | open | 54 |
| ver | give | 44 |
| çevir | turn over, spin | 35 |
| tut | hold, catch | 32 |
| ye | eat | 29 |
| çek | pull | 27 |
| yakala | catch | 23 |
| bırak | let go | 21 |
| diz | arrange | 18 |
| vur | hit | 17 |
| öp | kiss | 16 |
| sok | insert, put in | 11 |
| tak | attach, put on | 10 |
| elle | handle | 9 |
| it | push | 8 |
| yık | demolish | 8 |
| giy | put on (clothing) | 7 |
| fırçala | brush (teeth) | 6 |
| iç | drink | 6 |
| sakla | hide, cover | 6 |
| gıdıkla | tickle | 5 |
| topla | arrange, sum | 5 |
| yırt | tear | 5 |
| dağıt | distribute | 4 |
| salla | shake | 4 |
| bas | push, press on | 3 |
| çak | hit, nail | 3 |
| devir | knock over | 3 |
| kapa | close, shut | 3 |
| yaz | write | 3 |
| yuvarla | roll | 3 |
| ayır | set apart | 2 |
| boz | destroy, ruin | 2 |
| çal | play (instrument) | 2 |
| dök | pour | 2 |
| gönder | send | 2 |
| ısır | bite | 2 |
| kes | cut | 2 |
| kullan | use | 2 |
| sil | wipe, erase | 2 |
| sık | squeeze | 2 |
| bağla | tie | 1 |
| çiz | draw | 1 |
| çırp | clap, stir | 1 |
| dik | stitch, erect, plant | 1 |
| dön | turn | 1 |
| ekle | add | 1 |
| em | suck | 1 |
| karıştır | combine | 1 |
| kıvır | fold | 1 |
| koru | protect | 1 |
| kur | set up | 1 |
| kurtar | save, rescue | 1 |
| okşa | caress | 1 |
| serp | sprinkle | 1 |
| taşı | carry | 1 |
| yak | burn | 1 |
| yıka | wash | 1 |
| yol | pluck, tear out | 1 |
| yolla | send | 1 |

Lexical Causal Verbs – T2

|  |  |  |  |
| --- | --- | --- | --- |
| **T2 (N=91)** | **74 different lexical causal verbs** | |  |
| **Turkish** | **English** | | **Frequency** |
| yap | do | 90 | |
| koy | put | 79 | |
| at | throw | 75 | |
| aç | open | 72 | |
| çevir | turn over, spin | 45 | |
| tut | hold, catch | 40 | |
| ver | give | 38 | |
| ye | eat | 37 | |
| çek | pull | 26 | |
| bırak | let go | 23 | |
| öp | kiss | 23 | |
| diz | arrange | 20 | |
| yakala | catch | 19 | |
| elle | handle | 18 | |
| vur | hit | 15 | |
| dök | pour | 10 | |
| tak | attach, put on | 10 | |
| topla | arrange, sum | 10 | |
| fırçala | brush (teeth) | 10 | |
| salla | shake | 9 | |
| devir | knock over | 8 | |
| iç | drink | 8 | |
| yırt | tear | 8 | |
| it | push | 7 | |
| yık | demolish | 7 | |
| giy | put on (clothing) | 6 | |
| kullan | use | 6 | |
| sakla | hide, cover | 6 | |
| çal | play (instrument) | 5 | |
| kapa | close, shut | 5 | |
| sür | rub on, drive | 5 | |
| bağla | tie | 4 | |
| boz | destroy, ruin | 4 | |
| kır | break | 4 | |
| bas | push, press on | 3 | |
| çak | hit, nail | 3 | |
| dik | stitch, erect, plant | 3 | |
| gıdıkla | tickle | 3 | |
| sık | squeeze | 3 | |
| sok | insert, put in | 3 | |
| taşı | carry | 3 | |
| çiz | draw | 2 | |
| çöz | untie, solve | 2 | |
| em | suck | 2 | |
| ısır | bite | 2 | |
| koru | protect | 2 | |
| sar | wrap | 2 | |
| tamamla | accomplish, finish | 2 | |
| tıkla | click, tick | 2 | |
| yak | burn | 2 | |
| yaz | write | 2 | |
| yıka | wash | 2 | |
| yuvarla | roll | 2 | |
| ayarla | calibrate | 1 | |
| ayır | set apart | 1 | |
| besle | feed | 1 | |
| çırp | clap, stir | 1 | |
| del | pierce | 1 | |
| döv | beat | 1 | |
| et | do | 1 | |
| gönder | send | 1 | |
| hallet | manage, solve | 1 | |
| hazırla | prepare | 1 | |
| itekle | push | 1 | |
| kaşı | scratch | 1 | |
| kıy | mince | 1 | |
| ör | knit | 1 | |
| ser | spread | 1 | |
| sırala | order | 1 | |
| soy | peel | 1 | |
| sürükle | drag | 1 | |
| tara | brush (hair) | 1 | |
| üz | worry | 1 | |
| yolla | send | 1 | |

Lexical Causal Verbs – T3

|  |  |  |  |
| --- | --- | --- | --- |
| **T3 (N=59)** | **72 different lexical causal verbs** | |  |
| **Turkish** | **English** | **Frequency** | |
| koy | put | 57 | |
| yap | do | 57 | |
| ye | eat | 45 | |
| tak | attach, put on | 44 | |
| ver | give | 44 | |
| aç | open | 33 | |
| at | throw | 27 | |
| iç | drink | 27 | |
| giy | put on (clothing) | 21 | |
| çek | pull | 16 | |
| tut | hold, catch | 16 | |
| diz | arrange | 16 | |
| dök | pour | 14 | |
| bırak | let go | 13 | |
| çevir | turn over, spin | 12 | |
| hazırla | prepare | 10 | |
| sok | insert, put in | 10 | |
| topla | arrange, sum | 9 | |
| yaz | write | 9 | |
| bas | push, press on | 7 | |
| yak | burn | 7 | |
| taşı | carry | 6 | |
| ısır | bite | 5 | |
| kat | add | 5 | |
| kes | cut | 5 | |
| sür | rub on, drive | 5 | |
| tamamla | accomplish, finish | 5 | |
| et | do | 4 | |
| soy | peel | 4 | |
| boz | destroy, ruin | 3 | |
| çal | play (instrument) | 3 | |
| devir | knock over | 3 | |
| kapa | close, shut | 3 | |
| öp | kiss | 3 | |
| sil | wipe, erase | 3 | |
| yıka | wash | 3 | |
| ayır | set apart | 2 | |
| çak | hit, nail | 2 | |
| çiz | draw | 2 | |
| dağıt | distribute | 2 | |
| doğra | chop | 2 | |
| hallet | manage, solve | 2 | |
| kır | break | 2 | |
| kıs | cut down, turn down | 2 | |
| kullan | use | 2 | |
| vur | hit | 2 | |
| yakala | catch | 2 | |
| yık | demolish | 2 | |
| ayarla | calibrate | 1 | |
| bağla | tie | 1 | |
| ban | dip, dunk | 1 | |
| böl | divide | 1 | |
| çalkala | shake | 1 | |
| çöz | solve | 1 | |
| dik | stitch, erect, plant | 1 | |
| dilimle | slice | 1 | |
| düzenle | order | 1 | |
| ekle | add | 1 | |
| elle | handle | 1 | |
| ez | crush | 1 | |
| karıştır | combine | 1 | |
| kavur | broil | 1 | |
| kov | drive away | 1 | |
| kurtar | save, rescue | 1 | |
| ört | cover | 1 | |
| sat | sell | 1 | |
| ser | spread | 1 | |
| sırala | order | 1 | |
| temizle | clean | 1 | |
| yolla | send | 1 | |
| yuvarla | roll | 1 | |

Morphological Causal Verbs – T1

|  |  |  |
| --- | --- | --- |
| **T1 (N=77)** | **45 different morphological causal verbs** |  |
| **Turkish** | **English** | **Frequency** |
| getir | bring (make it come) | 46 |
| çıkar/t | bring out | 38 |
| göster | show (make it seen) | 27 |
| kapat | close | 26 |
| götür | take away (make it go) | 22 |
| kaldır | lift up | 21 |
| kopar/t | break off, rip | 8 |
| yerleştir | place, arrange | 6 |
| bitir | finish | 5 |
| düzelt | fix | 4 |
| geçir | make it pass | 4 |
| gezdir | take around (make it go about) | 4 |
| oynat | make it play | 4 |
| yedir | feed | 4 |
| döndür | turn, spin | 3 |
| giydir | dress (someone) | 3 |
| ittir | push, shove | 3 |
| pişir | cook | 3 |
| acıt | make it hurt | 2 |
| anlat | explain (make someone understand) | 2 |
| değiştir | make it change | 2 |
| düşür | drop (make it fall) | 2 |
| indir | lower (make it ascend) | 2 |
| kaçır | miss something (make it flee) | 2 |
| uzat | prolong, elongate | 2 |
| yanaştır | draw near | 2 |
| yürüt | make it walk | 2 |
| zıplat | make it jump | 2 |
| aldır | care, attend | 1 |
| benzet | liken, make it resemble | 1 |
| boşalt | empty | 1 |
| çekiştir | pull at both ends | 1 |
| dedirt | make someone say | 1 |
| doldur | fill up | 1 |
| durdur | make it stop | 1 |
| ettir | execute (make it do) | 1 |
| fırlat | launch | 1 |
| kaydır | slide | 1 |
| konuştur | make someone speak | 1 |
| öğret | teach (make someone learn) | 1 |
| oturt | sit somoene down | 1 |
| uyandır | wake someone up | 1 |
| uyut | put to sleep | 1 |
| yakınlaştır | bring closer | 1 |
| yatır | put down | 1 |

Morphological Causal Verbs – T2

|  |  |  |
| --- | --- | --- |
| **T2 (N=91)** | **50 different morphological causal verbs** |  |
| **Turkish** | **English** | **Frequency** |
| getir | bring (make it come) | 52 |
| göster | show (make it seen) | 45 |
| çıkar/t | bring out | 32 |
| kapat | close | 34 |
| götür | take away (make it go) | 29 |
| kaldır | lift up | 26 |
| kopar/t | break off, rip | 9 |
| yerleştir | place, arrange | 8 |
| uyut | put to sleep | 7 |
| yedir | feed | 7 |
| değiştir | make it change | 6 |
| konuştur | make someone speak | 6 |
| yaptır | make it do | 6 |
| geçir | make it pass | 5 |
| düşür | drop (make it fall) | 4 |
| düzelt | fix | 4 |
| oturt | sit someone down | 4 |
| oynat | make it play | 4 |
| anlat | explain (make someone understand) | 3 |
| bitir | finish | 3 |
| ittir | push, shove | 3 |
| kaçır | miss something (make it flee) | 3 |
| doldur | fill up | 2 |
| fırlat | launch | 2 |
| karıştır | mix | 2 |
| acıt | make it hurt | 1 |
| başlat | initiate | 1 |
| birleştir | unite, bring together | 1 |
| döndür | turn, spin | 1 |
| ellet | make it handle | 1 |
| eşleştir | match | 1 |
| gezdir | take around (make it go about) | 1 |
| giydir | dress (someone) | 1 |
| içir | make someone drink | 1 |
| kamaştır | daze | 1 |
| kaydır | slide | 1 |
| öğret | teach (make someone learn) | 1 |
| saydır | make it count | 1 |
| sığdır | make it fit | 1 |
| sıkıştır | make it squeeze | 1 |
| toplat | make someone collect | 1 |
| uçur | make it fly | 1 |
| uyandır | wake someone up | 1 |
| uzat | prolong, elongate | 1 |
| yakınlaştır | bring closer | 1 |
| yapıştır | attach, glue, paste | 1 |
| yatır | put down | 1 |
| yürüt | make it walk | 1 |
| yüzdür | make it swim | 1 |
| zıplat | make it jump | 1 |

Morphological Causal Verbs – T3

|  |  |  |
| --- | --- | --- |
| **T3 (N=59)** | **51 different morphological causal verbs** |  |
| **Turkish** | **English** | **Frequency** |
| kapat | close | 40 |
| getir | bring (make it come) | 36 |
| pişir | cook | 36 |
| giydir | dress (someone) | 33 |
| karıştır | mix | 32 |
| çıkar/t | bring out | 26 |
| kaldır | lift up | 18 |
| göster | show (make it seen) | 15 |
| yerleştir | place, arrange | 12 |
| götür | take away (make it go) | 9 |
| geçir | make it pass | 8 |
| doldur | fill up | 7 |
| bitir | finish | 6 |
| değiştir | make it change | 6 |
| şaşır | become surprised | 6 |
| yedir- | feed | 6 |
| düzelt | fix | 4 |
| öğret | teach (make someone learn) | 3 |
| oturt | sit someone down | 3 |
| benzet- | liken, make it resemble | 2 |
| birleştir | unite, bring together | 2 |
| boşalt | empty | 2 |
| döndür | turn, spin | 2 |
| ısıt- | warm up | 2 |
| kopar/t | break off, rip | 2 |
| oluştur | create, form | 2 |
| acıt- | make it hurt | 1 |
| atıştır- | snack | 1 |
| başlat- | initiate | 1 |
| bastır- | press down | 1 |
| batır- | dip | 1 |
| beklet- | make it wait | 1 |
| biriktir | collect, save up | 1 |
| damlat | make it drip | 1 |
| dolaştır | embrangle | 1 |
| doyur | satiate (make someone full) | 1 |
| düşür | drop (make it fall) | 1 |
| eşleştir | match | 1 |
| ettir | execute (make it do) | 1 |
| güldür- | make someone laugh | 1 |
| gülümset- | make someone smile | 1 |
| indir- | lower (make it ascend) | 1 |
| ittir- | push, shove | 1 |
| sığdır- | make it fit | 1 |
| sıkıştır- | make it squeeze | 1 |
| söndür- | put out (fire) | 1 |
| uzaklaştır- | take away (make it further) | 1 |
| yakınlaştır- | bring closer | 1 |
| yaklaştır | bring closer | 1 |
| yapıştır- | attach, glue, paste | 1 |
| yürüt | make it walk | 1 |

Causal Conjunctions – T1

|  |  |  |
| --- | --- | --- |
| **T1 (N=77)** | **13 different causal conjunctions** | |
| **Turkish** | **English** | **Frequency** |
| ama | but | 55 |
| se/sa | if | 48 |
| o zaman | in that case, then | 35 |
| yoksa | if not | 20 |
| için | for | 18 |
| çünkü | because | 8 |
| nca/nce | when/if | 6 |
| diye | for, because | 4 |
| o yüzden | because of | 3 |
| da/de | if | 1 |
| halbuki | however | 1 |
| ikçe/ıkça | when/if | 1 |
| yani | so | 1 |

Causal Conjunctions – T2

|  |  |  |  |
| --- | --- | --- | --- |
| **T2 (N=91)** | **10 different causal conjunctions** | | |
| **Turkish** | **English** | | **Frequency** |
| ama | but | | 75 |
| se/sa | if | 60 | |
| o zaman | in that case, then | 49 | |
| için | for | 18 | |
| yoksa | if not | 18 | |
| çünkü | because | 15 | |
| nca/nce | when/if | 8 | |
| o yüzden | because of | 6 | |
| diye | for, because | 2 | |
| niçin | what for | 1 | |

Causal Conjunctions – T3

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **T3 (N=59)** | **13 different causal conjunctions** | | |  |
| **Turkish** | **English** | | **Frequency** | |
| ama | but | | 54 | |
| o zaman | in that case, then | 47 | | |
| se/sa | if | 44 | | |
| çünkü | because | 18 | | |
| için | for | 13 | | |
| da/de | if | 9 | | |
| yoksa | if not | 7 | | |
| o yüzden | because of | 6 | | |
| diye | for, because | 5 | | |
| nca/nce | when/if | 5 | | |
| ki | so | 4 | | |
| eğer | if | 1 | | |
| böylece | therefore | 1 | | |