**Supplemental Table 1**

*Sex Differences in Behavioral and Developmental Functioning Among Preschool-Aged Children Classified as Autism Spectrum Disorder (ASD) by Presence of a Previous ASD Diagnosis and Intellectual Disability*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ASD With  Previous ASD Diagnosis  *N*=1,275 | | ASD Without Previous ASD Diagnosis  *N*=205 | | ASD With Intellectual Disability *N*=930 | | ASD Without Intellectual Disability  *N*=530 | |
|  | M=1,057; F=218 | | M=152; F=53 | | M=753; F=177 | | M=437; F=93 | |
|  | *p for F statistic* | *η2* | *p for F statistic* | *η2* | *p for F statistic* | *η2* | *p for F statistic* | *η2* |
| Child Behavior Checklist (CBCL) |  |  |  |  |  |  |  |  |
| Externalizing behavior problems | 0.18 | .001 | 0.62 | .004 | 0.19 | .000 | 0.18 | .004 |
| Internalizing behavior problems | <.01 | .006 | 0.40 | .001 | 0.53 | .002 | 0.15 | .002 |
| Mullen Scales of Early Learning (MSEL) |  |  |  |  |  |  |  |  |
| Composite standard score | 0.72 | .000 | 0.45 | .003 | 0.58 | .000 | 0.39 | .001 |
| Fine motor abilities | 0.46 | .000 | 0.41 | .003 | 0.13 | .002 | 0.87 | .000 |
| Receptive language abilities | 0.57 | .000 | 0.50 | .002 | 0.45 | .001 | 0.59 | .001 |
| Expressive language abilities | 0.43 | .000 | 0.76 | .000 | 0.58 | .000 | 0.56 | .001 |
| Visual reception abilities | 0.08 | .000 | 0.18 | .009 | 0.82 | .000 | 0.82 | .003 |

*Note*: M=males and F=females; bold indicates statistical significance; an eta squared (*η2)*) estimate of at least 0.01 is needed to assume a small effect and an *η2* of at least 0.06 is needed to assume a moderate effect of child sex; mean scores for significant differences among ASD with previous ASD diagnosis: CBCL internalizing problems in males=62.42 and females=64.33

**Supplemental Table 2**

*Sex Differences in Behavioral and Developmental Functioning Among Preschool-Aged Children Classified as Subthreshold Autism Characteristics (SC) by Presence of a Previous Autism Spectrum Disorder (ASD) Diagnosis and Intellectual Disability*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | SC With Previous ASD Diagnosis *N*=250 | | SC Without Previous ASD Diagnosis *N*=343 | | SC With Intellectual Disability *N*=197 | | SC Without Intellectual Disability *N*=396 | |
|  | M=190; F=60 | | M=226; F=117 | | M=141; F=56 | | M=275; F=121 | |
|  | *p for F statistic* | *η2* | *p for F statistic* | *η2* | *p for F statistic* | *η2* | *p for F statistic* | *η2* |
| Child Behavior Checklist (CBCL) |  |  |  |  |  |  |  |  |
| Externalizing behavior problems | 0.11 | .002 | 0.40 | .002 | 0.33 | .001 | 0.30 | .003 |
| Internalizing behavior problems | 0.49 | .010 | 0.01 | .008 | 0.63 | .005 | 0.51 | .001 |
| Mullen Scales of Early learning (MSEL) |  |  |  |  |  |  |  |  |
| Composite standard score | 0.37 | .003 | 0.20 | .005 | 0.49 | .002 | 0.04 | .011 |
| Fine motor abilities | 0.47 | .002 | 0.10 | .009 | 0.30 | .005 | <.01 | .022 |
| Receptive language abilities | 0.36 | .003 | 0.45 | .002 | 0.56 | .002 | 0.39 | .002 |
| Expressive language abilities | 0.07 | .013 | 0.35 | .001 | 0.86 | .000 | 0.08 | .008 |
| Visual reception abilities | 0.48 | .000 | 0.39 | .002 | 0.18 | .009 | 0.72 | .000 |

*Note*: M=males and F=females; bold indicates statistical significance; an eta squared (*η2)*) estimate of at least 0.01 is needed to assume a small effect and an *η2* of at least 0.06 is needed to assume a moderate effect of child sex; mean scores for significant differences among SC without previous ASD diagnosis: CBCL internalizing problems in males=58.72 and females=61.01; mean scores for significant differences among SC without ID: MSEL composite standard score in males=89.14 and females=92.29; MSEL fine motor score in males=43.10 and females=46.17

**Supplemental Table 3**

*Sex Differences in Performance on an Autism Spectrum Disorder Screen (ASD) and Two ASD Diagnostic Tests Among Preschool-Aged Children Classified as ASD by Presence of a Previous ASD diagnosis and Intellectual Disability*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ASD With  Previous ASD Diagnosis  *N*=1,275 | | ASD Without Previous ASD Diagnosis  *N*=205 | | ASD With  Intellectual Disability  *N*=930 | | ASD Without  Intellectual Disability  *N*=530 | |
|  | M=1,057; F=218 | | M=152; F=53 | | M=753; F=177 | | M=437; F=93 | |
|  | *p for F statistic* | *η2* | *p for F statistic* | *η2* | *P for F statistic* | *η2* | *p for F statistic* | *η2* |
| Social Communication Questionnaire |  |  |  |  |  |  |  |  |
| Total score | 0.14 | .002 | 0.48 | .002 | 0.63 | .001 | 0.24 | .003 |
| Autism Diagnostic Interview-Revised (ADI-R) |  |  |  |  |  |  |  |  |
| Restricted interests and repetitive  behaviors (RRB) raw score | <.01 | .006 | 0.11 | .013 | <.01 | .018 | 0.41 | .001 |
| Social deficits raw  score | <.01 | .006 | 0.53 | .002 | 0.22 | .002 | 0.18 | .003 |
| Autism Diagnostic Observation Schedule (ADOS) |  |  |  |  |  |  |  |  |
| RRB raw score | 0.10 | .002 | 0.81 | .001 | 0.08 | .003 | 0.22 | .003 |
| Social deficits raw  score | 0.33 | .001 | 0.87 | .001 | 0.64 | .001 | 0.65 | .001 |
| Total calibrated  severity score | 0.52 | .001 | 0.57 | .002 | 0.83 | .001 | 0.31 | .002 |

*Note*: M=males and F=females; bold indicates statistical significance; an eta squared (*η2)*) estimate of at least 0.01 is needed to assume a small effect and an *η2* of at least 0.06 is needed to assume a moderate effect of child sex; mean scores for significant differences among ASD with previous ASD diagnosis: ADI-R RRB in males=6.38 and females=5.86 and ADI-R social deficits in males=18.74 and females=20.01; mean scores for significant differences among ASD with ID: ADI-R RRB in males=6.09 and females=5.28

**Supplemental Table 4**

*Sex Differences in Performance on an Autism Spectrum Disorder Screen (ASD) and Two ASD Diagnostic Tests Among Preschool-Aged Children Classified as Subthreshold ASD Characteristics (SC) by Presence of a Previous ASD diagnosis and Intellectual Disability*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | SC With Previous ASD Diagnosis *N*=250 | | SC Without Previous ASD Diagnosis *N*=343 | | SC With Intellectual Disability *N*=197 | | SC Without Intellectual Disability *N*=396 | |
|  | M=190; F=60 | | M=226; F=117 | | M=141; F=56 | | M=275; F=121 | |
|  | *p for F statistic* | *η2* | *p for F statistic* | *η2* | *p for F statistic* | *η2* | *p for F statistic* | *η2* |
| Social Communication Questionnaire |  |  |  |  |  |  |  |  |
| Total score | 0.11 | .010 | 0.63 | .001 | 0.14 | .011 | 0.80 | .001 |
| Autism Diagnostic Interview-Revised (ADI-R) |  |  |  |  |  |  |  |  |
| Restricted interests and repetitive  behaviors (RRB) raw score | 0.05 | .016 | 0.95 | .001 | 0.03 | .023 | 0.29 | .003 |
| Social deficits raw  score | 0.26 | .005 | 0.87 | .001 | 0.49 | .002 | 0.42 | .002 |
| Autism Diagnostic Observation Schedule (ADOS) |  |  |  |  |  |  |  |  |
| RRB raw score | 0.90 | .001 | 0.09 | .009 | 0.46 | .003 | 0.10 | .007 |
| Social deficits raw  score | <.01 | .032 | 0.15 | .006 | 0.45 | .003 | <.01 | .032 |
| Total calibrated  severity score | 0.05 | .018 | 0.07 | .011 | 0.08 | .022 | .01 | .017 |

*Note*: M=males and F=females; bold indicates statistical significance; an eta squared (*η2)*) estimate of at least 0.01 is needed to assume a small effect and an *η2* of at least 0.06 is needed to assume a moderate effect of child sex; mean scores for significant differences among SC with previous ASD diagnosis: ADI-R RRB in males=4.51 and females=3.72, ADOS social deficits in males=3.98 and females=2.75, and ADOS total ASD severity in males=3.98 and females=2.75; mean scores for significant differences among SC with ID: ADI-R RRB in males=3.30 and females=2.50; mean scores for significant differences among DD without ID: ADOS social deficits in males=3.33 and females=2.30 and ADOS total ASD severity in males=2.88 and females=2.30

**Supplemental Table 5**

*Sex Differences in Parent-Reported Developmental Conditions Diagnosed by a Healthcare Provider among Children Classified as Autism Spectrum Disorder (ASD) by the Presence of Previous ASD Diagnosis and Intellectual Disability*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ASD With Previous ASD Diagnosis  *N*=1,275 | | ASD Without Previous ASD Diagnosis  *N*=205 | | ASD with  Intellectual Disability *N*=930 | | ASD Without  Intellectual Disability *N*=530 | |
|  | M=1,057; F=218 | | M=152; F=53 | | M=753; F=177 | | M=437; F=93 | |
|  | *p for X2* | *Cramer’s V* | *p for X2* | *Cramer’s V* | *p for X2* | *Cramer’s V* | *p for X2* | *Cramer’s V* |
| Any developmental condition | N/A | N/A | / | / | 0.01 | .085 | 0.10 | .072 |
| Attention deficit hyperactivity disorder | 0.84 | .006 | 0.36 | .065 | 0.60 | .017 | 0.76 | .013 |
| Autism spectrum disorder | N/A | N/A | N/A | N/A | 0.01 | .110 | 0.48 | .031 |
| Cerebral palsy | 0.07 | .051 | 0.45 | .053 | 0.07 | .060 | 0.31 | .044 |
| Down Syndrome | 0.65 | .013 | 0.68 | .029 | 0.53 | .021 | / | / |
| Hearing problems | 0.96 | .002 | 0.02 | .169 | 0.01 | .081 | 0.25 | .050 |
| Language delay | 0.39 | .024 | 0.31 | .071 | 0.21 | .042 | 0.79 | .012 |
| Motor delay | 0.50 | .019 | 0.17 | .096 | 0.01 | .080 | 0.65 | .020 |
| Vision problems | 0.90 | .003 | 0.20 | .091 | 0.12 | .051 | .086 | .008 |

*Note*: M=males and F=females; bold indicates statistical significance; a Cramer’s V estimates of at least 0.20 is needed to assume a small effect and a Cramer’s V of at least 0.30 is needed to assume a moderate effect of child sex; N/A=condition applies to all or none of stratified sample; blank cells=less than five subjects in at least one cell; percent of children with ASD without a previous ASD diagnosis who endorsed hearing problems: males=6.12% and females=17.33%; percent of children with ASD and ID who endorsed any condition: males=98.48% and females=95.45%; ASD: males=89.11% and females=79.70%; hearing problems: males=3.92% and females=1.94%; and motor delay: males=11.20% and females=4.17%

**Supplemental Table 6**

*Sex Differences in Parent-Reported Developmental Conditions Previously Diagnosed by a Healthcare Provider among Children Classified as Subthreshold Autism Characteristics (SC) by the Presence of Previous ASD Diagnosis and Intellectual Disability*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | SC With Previous ASD Diagnosis *N*=250 | | SC Without Previous ASD  Diagnosis *N*=343 | | SC With Intellectual Disability *N*=197 | | SC Without Intellectual Disability *N*=396 | |
|  | M=190; F=60 | | M=226; F=117 | | M=141; F=56 | | M=275; F=121 | |
|  | *p for X2* | *Cramer’s V* | *p for X2* | *Cramer’s V* | *p for X2* | *Cramer’s V* | *p for X2* | *Cramer’s V* |
| Any developmental condition | N/A | N/A | / | / | 0.30 | .074 | 0.76 | .016 |
| Attention deficit hyperactivity disorder | 0.98 | .002 | 0.13 | .083 | 0.97 | .003 | 0.16 | .071 |
| Autism spectrum disorder | N/A | N/A | N/A | N/A | 0.19 | .094 | 0.03 | .112 |
| Cerebral palsy | / | / | / | / | 0.56 | .042 | 0.81 | .012 |
| Down Syndrome | / | / | / | / | 0.23 | .009 | / | / |
| Hearing problems | / | / | 0.11 | .087 | 0.54 | .043 | 0.05 | .099 |
| Language delay | 0.55 | .038 | 0.63 | .026 | 0.92 | .007 | 0.33 | 0.49 |
| Motor delay | 0.42 | .051 | 0.10 | .088 | 0.27 | .079 | 0.81 | .012 |
| Vision problems | / | / | / | / | 0.27 | .079 | 0.48 | .038 |

*Note*: M=males and F=females; bold indicates statistical significance; a Cramer’s V estimates of at least 0.20 is needed to assume a small effect and a Cramer’s V of at least 0.30 is needed to assume a moderate effect of child sex; N/A=condition applies to all or none of stratified sample; blank cells=less than five subjects in at least one cell; percent of children classified as SC without ID who endorsed ASD: males=45.60% and females=33.60% and hearing problems: males=6.60 and females=12.60%