

Supplemental information

Factors Associated with Receptive and Expressive Language in Autistic Children and Siblings: A systematic review - Marjolein Muès (marjolein.mues@ugent.be), Sarah Schaubroeck, Ellen Demurie & Herbert Roeyers

European Child & Adolescent Psychiatry

1. Search strategy per database

Table S1.

Database 1: Web of Science (n = 9976, August 1st 2021 + n = 1346 June 3rd 2022)

Step 1 Concept 1: autism

(TI=(Autism OR “Autism Spectrum Disorder*” OR ASD OR Autist*)) OR AB=(Autism OR “Autism Spectrum Disorder*” OR ASD OR Autist*))

Step 2 Concept 2: language development

(TI=(language* OR linguist* OR comprehension OR comprehend* OR production OR produce* OR vocabulary OR word* OR sentence* OR listening OR verbal OR understand* OR syntax* OR syntact* OR morpholog* OR lexic* OR semantic* OR pragmatic* OR phonetic* OR phonemic* OR phonolog* OR expressive OR receptive OR grammatic* OR fluency OR speech OR oral OR story OR conversation OR sound* OR meaning OR proficiency OR SLI OR DLD)) OR AB=(language* OR linguist* OR comprehension OR comprehend* OR production OR produce* OR vocabulary OR word* OR sentence* OR listening OR verbal OR understand* OR syntax* OR syntact* OR morpholog* OR lexic* OR semantic* OR pragmatic* OR phonetic* OR phonemic* OR phonolog* OR expressive OR receptive OR grammatic* OR fluency OR speech OR oral OR story OR conversation OR sound* OR meaning OR proficiency OR SLI OR DLD))

Step 3 Step 1 AND Step 2

Step 4 Concept 3: pediatric sample

(TI=(p*ediatric OR child* OR baby OR babies OR newborn* OR infant* OR toddler* OR preschool* OR boy* OR girl* OR kid* OR “school age*” OR birth OR kindergarten OR pre*kindergarten OR childhood OR youngster* OR youth OR offspring OR minor OR neonate* OR grade OR school*)) OR AB=(p*ediatric OR child* OR baby OR babies OR newborn* OR infant* OR toddler* OR preschool* OR boy* OR girl* OR kid* OR “school age*” OR birth OR kindergarten OR pre*kindergarten OR childhood OR youngster* OR youth OR offspring OR minor OR neonate* OR grade OR school*))

Step 5 Step 3 AND step 4

(Document Types: Articles OR Review Articles OR Early Access, Timespan: 2013-01-01 to 2021-08-01)

Table S2.Database 2: EMBASE (n = 7071, August 1st 2021 + n = 944 June 3rd 2022)**Step 1 Concept 1: autism**

(Autism:ab,ti OR “Autism Spectrum Disorder\$:ab,ti OR ASD:ab,ti OR Autist*:ab,ti) AND
([article]/lim OR [article in press]/lim OR [review]/lim) AND [2013-2021]/py

Step 2 Concept 2: language development

(language\$:ab,ti OR linguist*:ab,ti OR comprehension:ab,ti OR comprehend*:ab,ti OR
production:ab,ti OR produce*:ab,ti OR vocabulary:ab,ti OR word*:ab,ti OR sentence*:ab,ti OR
listening:ab,ti OR verbal:ab,ti OR understand*:ab,ti OR syntax*:ab,ti OR syntact*:ab,ti OR
morpholog*:ab,ti OR lexic*:ab,ti OR semantic*:ab,ti OR pragmatic*:ab,ti OR phonetic*:ab,ti OR
phonemic*:ab,ti OR phonolog*:ab,ti OR expressive:ab,ti OR receptive:ab,ti OR grammatic*:ab,ti
OR fluency:ab,ti OR speech:ab,ti OR oral:ab,ti OR stORy:ab,ti OR conversation:ab,ti OR
sound*:ab,ti OR meaning:ab,ti OR proficiency:ab,ti OR SLI:ab,ti OR DLD:ab,ti) AND
([article]/lim OR [article in press]/lim OR [review]/lim) AND [2013-2021]/py

Step 3 Step 1 AND Step 2**Step 4 Concept 3: pediatric sample**

p\$ediatric:ab,ti OR child*:ab,ti OR baby:ab,ti OR babies:ab,ti OR newborn*:ab,ti OR infant*:ab,ti
OR toddler*:ab,ti OR preschool*:ab,ti OR boy*:ab,ti OR girl*:ab,ti OR kid*:ab,ti OR “school
age”:ab,ti OR birth:ab,ti OR kindergarten:ab,ti OR pre*kindergarten:ab,ti OR childhood:ab,ti OR
youngster*:ab,ti OR youth*:ab,ti OR offspring:ab,ti OR minor:ab,ti OR neonate*:ab,ti OR
grade:ab,ti OR school*:ab,ti AND ([article]/lim OR [article in press]/lim OR [review]/lim) AND
[2013-2021]/py

Step 5 Step 3 AND Step 4

Table S3.*Database 3: Scopus (n = 12498, August 2nd 2021 + n = 3197 June 3rd 2022)***Step 1 *Concept 1: autism***

(TITLE-ABS-KEY (autism OR "Autism Spectrum Disorder*" OR ASD OR autist*) AND
PUBYEAR > 2012 AND (LIMIT-TO(DOCTYPE, "ar") OR LIMIT-TO(DOCTYPE, "re") OR
LIMIT-TO(DOCTYPE, "ch")) AND (LIMIT-TO(LANGUAGE, "English"))

Step 2 *Concept 2: language development*

(TITLE-ABS-KEY (language* OR linguist* OR comprehension OR comprehend* OR production
OR produce* OR vocabulary OR word* OR sentence* OR listening OR verbal OR understand*
OR syntax* OR syntact* OR morpholog* OR lexic* OR semantic* OR pragmatic* OR phonetic*
OR phonemic* OR phonolog* OR expressive OR receptive OR grammatic* OR fluency OR
speech OR oral OR story OR conversation OR sound* OR meaning OR proficiency OR SLI OR
DLD) AND PUBYEAR > 2012 AND (LIMIT-TO(DOCTYPE, "ar") OR LIMIT-TO(DOCTYPE,
"re") OR LIMIT-TO(DOCTYPE, "ch")) AND (LIMIT-TO(LANGUAGE, "English"))

Step 3 *Step 1 AND step 2***Step 4 *Concept 3: pediatric sample***

(TITLE-ABS-KEY (p*ediatric OR child* OR baby OR babies OR newborn* OR infant* OR
toddler* OR preschool* OR boy* OR girl* OR kid* OR "school age*" OR birth OR kindergarten
OR pre*kindergarten OR childhood OR youngster* OR youth OR offspring OR minor OR
neonate* OR grade OR school) AND PUBYEAR > 2012 AND (LIMIT-TO(DOCTYPE, "ar") OR
LIMIT-TO(DOCTYPE, "re") OR LIMIT-TO(DOCTYPE, "ch")) AND (LIMIT-TO(LANGUAGE,
"English"))

Step 5 *Step 3 AND step 4*

Table S4

Database 4: Medline (n = 10337, August 2nd 2021 + n = 2451 June 3rd 2022)

Note: only first 10000 reviews could be viewed (sorted with 'best match')

Step 1 Concept 1: autism

Search: autism OR "Autism Spectrum Disorder*" OR ASD OR autist*

Step 2 Concept 2: language development

Search: language* OR linguist* OR comprehension OR comprehend* OR production OR produce* OR vocabulary OR word* OR sentence* OR listening OR verbal OR understand* OR syntax* OR syntact* OR morpholog* OR lexic* OR semantic* OR pragmatic* OR phonetic* OR phonemic* OR phonolog* OR expressive OR receptive OR grammatic* OR fluency OR speech OR oral OR story OR conversation OR sound* OR meaning OR proficiency OR SLI OR DLD

Step 3 Step 1 AND step 2**Step 4 Concept 3: pediatric sample**

Search: pediatric OR paediatric OR child* OR baby OR babies OR newborn* OR infant* OR toddler* OR preschool* OR boy* OR girl* OR kid* OR "school age*" OR birth OR kindergarten OR prekindergarten OR childhood OR youngster* OR youth OR offspring OR minor OR neonate* OR grade OR school

Step 5 Step 3 AND Step 4

(Filters: English, from 2013/1/1 - 2021/8/2 and 2022/7/3)
