

*Complete search strings for*

Eye tracking measures for studying language comprehension deficits in Aphasia: A systematic search and review  
Sharma, et al.

**Search String for MEDLINE (PubMed)**

("Language Disorders"[Mesh] OR "Aphasia"[Mesh] OR "Aphasia, Broca"[Mesh] OR "Aphasia, Wernicke"[Mesh] OR "Acquired disabilities"[tiab] OR ((Individual[tiab] OR Individuals[tiab] OR people[tiab] OR person[tiab] OR persons[tiab]) AND ("brain-damaged"[tiab] OR "brain damaged"[tiab] OR "neurological disease"[tiab] OR "non-brain damaged"[tiab] OR "non-brain-damaged"[tiab] OR "non brain damaged"[tiab])) OR Aphasia[tiab] OR ((Aphasia[tiab] OR aphasic[tiab]) AND (agrammatic[tiab] OR Broca's[tiab] OR fluent[tiab] OR individual[tiab] OR individuals[tiab] OR "non-fluent"[tiab] OR people[tiab] OR person[tiab] OR persons[tiab] OR stroke[tiab] OR Wernicke's[tiab])) OR "Neurological disease patients"[tiab])

AND

("Eye Movements"[Mesh] OR "Eye Movement Measurements"[Mesh] OR "Saccades"[Mesh] OR "Eye-tracking"[tiab] OR Eyetracking[tiab] OR ((Eye[tiab] OR visual[tiab]) AND (movement[tiab] OR movements[tiab] OR tracking[tiab] OR fixate[tiab] OR fixated[tiab] OR fixation[tiab] OR fixations[tiab] OR latency[tiab] OR latencies[tiab])) OR Gaze[tiab] OR Saccades[tiab] OR Saccadic[tiab])

AND

("Comprehension"[Mesh] OR "Linguistics"[Mesh] OR "Reading"[Mesh] OR Analysis[tiab] OR (Analysis[tiab] AND (lexical[tiab] OR semantic[tiab])) OR Comprehension[tiab] OR (Comprehension[tiab] AND (agrammatic[tiab] OR antecedent[tiab] OR interpretive[tiab] OR "off-line"[tiab] OR "pragmatic sentence"[tiab] OR pronoun[tiab] OR reading[tiab] OR sentence[tiab])) OR Language[tiab] OR ((Language[tiab] OR speech[tiab]) AND (comprehension[tiab] OR perception[tiab])) OR Processing[tiab] OR (Processing[tiab] AND (anaphor[tiab] OR antecedent[tiab] OR "co-reference"[tiab] OR discourse[tiab] OR language[tiab] OR lexical[tiab] OR "lexical-semantic"[tiab] OR "morpho-syntactic"[tiab] OR online[tiab] OR "online sentence"[tiab] OR "online reading"[tiab] OR pronoun[tiab] OR sentence[tiab] OR syntactic[tiab] OR "syntactic movement"[tiab] OR verb[tiab])) OR Reading[tiab] OR (Reading[tiab] AND "self-paced"[tiab]) OR Word[tiab] OR (Word[tiab] AND (class[tiab] OR frequency[tiab] OR length[tiab])) OR Ambiguity[tiab] OR Discourse[tiab] OR "Dual task"[tiab] OR "Gap-filling"[tiab] OR "Gap filling"[tiab] OR "Gapfilling"[tiab] OR "Lexical variable"[tiab] OR "Lexical variables"[tiab] OR Linguistics[tiab] OR "Morphological cues"[tiab] OR "NP-movement"[tiab] OR "NP- movement"[tiab] OR Prediction[tiab] OR "Spoken word recognition"[tiab] OR Syntax[tiab] OR "Wh-movement"[tiab] OR "Wh-movement"[tiab])

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**Search String for Cochrane**

("Language Disorders".sh. OR Aphasia.sh. OR "Aphasia, Broca".sh. OR "Aphasia, Wernicke".sh. OR "Acquired disabilities".ti,ab. OR ((Individual.ti,ab. OR Individuals.ti,ab. OR people.ti,ab. OR person.ti,ab. OR persons.ti,ab.) AND ("brain-damaged".ti,ab. OR "brain damaged".ti,ab. OR "neurological disease".ti,ab. OR "non-brain damaged".ti,ab. OR "non-brain-damaged".ti,ab. OR "non brain damaged".ti,ab.)) OR Aphasia.ti,ab. OR ((Aphasia.ti,ab. OR aphasic.ti,ab.) AND (agrammatic.ti,ab. OR Broca's.ti,ab. OR fluent.ti,ab. OR individual.ti,ab. OR individuals.ti,ab. OR "non-fluent".ti,ab. OR people.ti,ab. OR person.ti,ab. OR persons.ti,ab. OR stroke.ti,ab. OR Wernicke's.ti,ab.)) OR "Neurological disease patients".ti,ab.)

AND

("Eye Movements".sh. OR "Eye Movement Measurements".sh. OR Saccades.sh. OR "Eye-tracking".ti,ab. OR Eyetracking.ti,ab. OR ((Eye.ti,ab. OR visual.ti,ab.) AND (movement.ti,ab. OR movements.ti,ab. OR tracking.ti,ab. OR fixate.ti,ab. OR fixated.ti,ab. OR fixation.ti,ab. OR fixations.ti,ab. OR latency.ti,ab. OR latencies.ti,ab.)) OR Gaze.ti,ab. OR Saccades.ti,ab. OR Saccadic.ti,ab.)

AND

(Comprehension.sh. OR Linguistics.sh. OR Reading.sh. OR Analysis.ti,ab. OR (Analysis.ti,ab. AND (lexical.ti,ab. OR semantic.ti,ab.)) OR Comprehension.ti,ab. OR (Comprehension.ti,ab. AND (agrammatic.ti,ab. OR antecedent.ti,ab. OR interpretive.ti,ab. OR "off-line".ti,ab. OR "pragmatic sentence".ti,ab. OR pronoun.ti,ab. OR reading.ti,ab. OR sentence.ti,ab.)) OR Language.ti,ab. OR ((Language.ti,ab. OR speech.ti,ab.) AND (comprehension.ti,ab. OR perception.ti,ab.)) OR Processing.ti,ab. OR (Processing.ti,ab. AND (anaphor.ti,ab. OR antecedent.ti,ab. OR "co-reference".ti,ab. OR discourse.ti,ab. OR language.ti,ab. OR lexical.ti,ab. OR "lexical-semantic".ti,ab. OR "morpho-syntactic".ti,ab. OR online.ti,ab. OR "online sentence".ti,ab. OR "online reading".ti,ab. OR pronoun.ti,ab. OR sentence.ti,ab. OR syntactic.ti,ab. OR "syntactic movement".ti,ab. OR verb.ti,ab.)) OR Reading.ti,ab. OR (Reading.ti,ab. AND "self-paced".ti,ab.) OR Word.ti,ab. OR (Word.ti,ab. AND (class.ti,ab. OR frequency.ti,ab. OR length.ti,ab.)) OR Ambiguity.ti,ab. OR Discourse.ti,ab. OR "Dual task".ti,ab. OR "Gap-filling".ti,ab. OR "Gap filling".ti,ab. OR "Gapfilling".ti,ab. OR "Lexical variable".ti,ab. OR "Lexical variables".ti,ab. OR Linguistics.ti,ab. OR "Morphological cues".ti,ab. OR "NP-movement".ti,ab. OR "NP-movement".ti,ab. OR Prediction.ti,ab. OR "Spoken word recognition".ti,ab. OR Syntax.ti,ab. OR "Wh-movement".ti,ab. OR "Wh- movement".ti,ab.)

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### **Search String for CINAHL**

((MH "Language Disorders") OR (MH "Aphasia") OR (MH "Aphasia, Broca") OR (MH "Aphasia, Wernicke") OR "Acquired disabilities" OR (("Individual" OR "Individuals" OR "people" OR "person" OR "persons") AND ("brain-damaged" OR "brain damaged" OR "neurological disease" OR "non-brain damaged" OR "non-brain-damaged" OR "non brain damaged"))) OR "Aphasia" OR (("Aphasia" OR "aphasic") AND ("agrammatic" OR "Broca's" OR "fluent" OR "individual" OR "individuals" OR "non-fluent" OR "people" OR "person" OR "persons" OR "stroke" OR "Wernicke's")) OR "Neurological disease patients")

AND

((MH "Eye Movements") OR (MH "Saccades") OR (MH "Eye Movement Measurements") OR "Eye-tracking" OR "Eyetracking" OR (("Eye" OR "visual") AND ("movement" OR "movements" OR "tracking" OR "fixate" OR "fixated" OR "fixation" OR "fixations" OR "latency" OR "latencies"))) OR "Gaze" OR "Saccades" OR "Saccadic")

AND

((MH "Linguistics") OR (MH "Reading") OR "Analysis" OR ("Analysis" AND ("lexical" OR "semantic"))) OR "Comprehension" OR ("Comprehension" AND ("agrammatic" OR "antecedent" OR "interpretive" OR "off-line" OR "pragmatic sentence" OR "pronoun" OR "reading" OR "sentence"))) OR "Language" OR (("Language" OR "speech") AND ("comprehension" OR "perception")) OR "Processing" OR ("Processing" AND ("anaphor" OR "antecedent" OR "co-reference" OR "discourse" OR "language" OR "lexical" OR "lexical-semantic" OR "morpho-syntactic" OR "online" OR "online sentence" OR "online reading" OR "pronoun" OR "sentence" OR "syntactic" OR "syntactic movement" OR "verb")) OR "Reading" OR ("Reading" AND "self-paced") OR "Word" OR ("Word" AND ("class" OR "frequency" OR "length")) OR "Ambiguity" OR "Discourse" OR "Dual task" OR "Gap-filling" OR "Gap filling" OR "Gapfilling" OR "Lexical variable" OR "Lexical variables" OR "Linguistics" OR "Morphological cues" OR "NP-movement" OR "NP-movement" OR "Prediction" OR "Spoken word recognition" OR "Syntax" OR "Wh-movement" OR "Wh-movement")

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**Search String for Embase**

('language disability'/de OR 'aphasia'/de OR 'ataxic aphasia'/de OR 'cortical sensory aphasia'/de OR 'Acquired disabilities':ti,ab OR ((Individual:ti,ab OR Individuals:ti,ab OR people:ti,ab OR person:ti,ab OR persons:ti,ab) AND ('brain-damaged':ti,ab OR 'brain damaged':ti,ab OR 'neurological disease':ti,ab OR 'non-brain damaged':ti,ab OR 'non-brain-damaged':ti,ab OR 'non brain damaged':ti,ab)) OR Aphasia:ti,ab OR ((Aphasia:ti,ab OR aphasic:ti,ab) AND (agrammatic:ti,ab OR Broca:ti,ab OR fluent:ti,ab OR individual:ti,ab OR individuals:ti,ab OR 'non-fluent':ti,ab OR people:ti,ab OR person:ti,ab OR persons:ti,ab OR stroke:ti,ab OR Wernicke:ti,ab)) OR 'Neurological disease patients':ti,ab)

AND

('eye movement'/de OR 'oculography'/de OR 'saccadic eye movement'/de OR 'Eye-tracking':ti,ab OR Eyetracking:ti,ab OR ((Eye:ti,ab OR visual:ti,ab) AND (movement:ti,ab OR movements:ti,ab OR tracking:ti,ab OR fixate:ti,ab OR fixated:ti,ab OR fixation:ti,ab OR fixations:ti,ab OR latency:ti,ab OR latencies:ti,ab)) OR Gaze:ti,ab OR Saccades:ti,ab OR Saccadic:ti,ab)

AND

('comprehension'/de OR 'linguistics'/de OR 'reading'/de OR Analysis:ti,ab OR Comprehension:ti,ab OR Language:ti,ab OR Processing:ti,ab OR Reading:ti,ab OR Ambiguity:ti,ab OR Discourse:ti,ab OR 'Dual task':ti,ab OR 'Gap-filling':ti,ab OR 'Gap filling':ti,ab OR 'Gapfilling':ti,ab OR 'Lexical variable':ti,ab OR 'Lexical variables':ti,ab OR Linguistics:ti,ab OR 'Morphological cues':ti,ab OR 'NP-movement':ti,ab OR 'NP- movement':ti,ab OR Prediction:ti,ab OR 'Spoken word recognition':ti,ab OR Syntax:ti,ab OR 'Wh-movement':ti,ab OR 'Wh- movement':ti,ab)

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### **Search String for PsycINFO**

((DE "Language Disorders") OR (DE "Aphasia") OR (DE "Wernicke's Syndrome") OR TI ("Acquired disabilities" OR ((Individual OR Individuals OR people OR person OR persons) AND ("brain-damaged" OR "brain damaged" OR "neurological disease" OR "non-brain damaged" OR "non-brain-damaged" OR "non brain damaged"))) OR Aphasia OR ((Aphasia OR aphasic) AND (agrammatic OR Broca's OR fluent OR individual OR individuals OR "non-fluent" OR people OR person OR persons OR stroke OR Wernicke's)) OR "Neurological disease patients") OR AB ("Acquired disabilities" OR ((Individual OR Individuals OR people OR person OR persons) AND ("brain-damaged" OR "brain damaged" OR "neurological disease" OR "non-brain damaged" OR "non-brain-damaged" OR "non brain damaged"))) OR Aphasia OR ((Aphasia OR aphasic) AND (agrammatic OR Broca's OR fluent OR individual OR individuals OR "non-fluent" OR people OR person OR persons OR stroke OR Wernicke's)) OR "Neurological disease patients"))

AND

((DE "Eye Movements") OR TI ("Eye-tracking" OR Eyetracking OR ((Eye OR visual) AND (movement OR movements OR tracking OR fixate OR fixated OR fixation OR fixations OR latency OR latencies)) OR Gaze OR Saccades OR Saccadic) OR AB ("Eye-tracking" OR Eyetracking OR ((Eye OR visual) AND (movement OR movements OR tracking OR fixate OR fixated OR fixation OR fixations OR latency OR latencies)) OR Gaze OR Saccades OR Saccadic))

AND

((DE "Comprehension") OR (DE "Linguistics") OR (DE "Reading") OR TI (Analysis OR (Analysis AND (lexical OR semantic)) OR Comprehension OR (Comprehension AND (agrammatic OR antecedent OR interpretive OR "off-line" OR "pragmatic sentence" OR pronoun OR reading OR sentence)) OR Language OR ((Language OR speech) AND (comprehension OR perception)) OR Processing OR (Processing AND (anaphor OR antecedent OR "co-reference" OR discourse OR language OR lexical OR "lexical-semantic" OR "morpho-syntactic" OR online OR "online sentence" OR "online reading" OR pronoun OR sentence OR syntactic OR "syntactic movement" OR verb)) OR Reading OR (Reading AND "self-paced") OR Word OR (Word AND (class OR frequency OR length)) OR Ambiguity OR Discourse OR "Dual task" OR "Gap-filling" OR "Gap filling" OR "Gapfilling" OR "Lexical variable" OR "Lexical variables" OR Linguistics OR "Morphological cues" OR "NP-movement" OR "NP- movement" OR Prediction OR "Spoken word recognition" OR Syntax OR "Wh-movement" OR "Wh- movement") OR AB (Analysis OR (Analysis AND (lexical OR semantic)) OR Comprehension OR (Comprehension AND (agrammatic OR antecedent OR interpretive OR "off-line" OR "pragmatic sentence" OR pronoun OR reading OR sentence)) OR Language OR ((Language OR speech) AND (comprehension OR perception)) OR Processing OR (Processing AND (anaphor OR antecedent OR "co-reference" OR discourse OR language OR lexical OR "lexical-semantic" OR "morpho-syntactic" OR online OR "online sentence" OR "online reading" OR pronoun OR sentence OR syntactic OR "syntactic movement" OR verb)) OR Reading OR (Reading AND "self-paced") OR Word OR (Word AND (class OR frequency OR length)) OR Ambiguity OR Discourse OR "Dual task" OR "Gap-filling" OR "Gap filling" OR "Gapfilling" OR "Lexical variable" OR "Lexical variables" OR Linguistics OR "Morphological cues" OR "NP-movement" OR "NP- movement" OR Prediction OR "Spoken word recognition" OR Syntax OR "Wh-movement" OR "Wh- movement"))

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**Search String for OTSeeker**

(Title/Abstract) Aphasia OR Saccades OR Saccade OR Saccadic OR Comprehension OR Reading OR  
Linguistics

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### **Search String for Scopus**

(TITLE-ABS("Acquired disabilities" OR ((Individual OR Individuals OR people OR person OR persons) AND ("brain-damaged" OR "brain damaged" OR "neurological disease" OR "non-brain damaged" OR "non-brain-damaged" OR "non brain damaged"))) OR Aphasia OR ((Aphasia OR aphasic) AND (agrammatic OR Broca's OR fluent OR individual OR individuals OR "non-fluent" OR people OR person OR persons OR stroke OR Wernicke's)) OR "Neurological disease patients"))

AND

(TITLE-ABS("Eye-tracking" OR Eyetracking OR ((Eye OR visual) AND (movement OR movements OR tracking OR fixate OR fixated OR fixation OR fixations OR latency OR latencies)) OR Gaze OR Saccades OR Saccadic))

AND

(TITLE-ABS(Analysis OR (Analysis AND (lexical OR semantic)) OR Comprehension OR (Comprehension AND (agrammatic OR antecedent OR interpretive OR "off-line" OR "pragmatic sentence" OR pronoun OR reading OR sentence)) OR Language OR ((Language OR speech) AND (comprehension OR perception)) OR Processing OR (Processing AND (anaphor OR antecedent OR "co-reference" OR discourse OR language OR lexical OR "lexical-semantic" OR "morpho-syntactic" OR online OR "online sentence" OR "online reading" OR pronoun OR sentence OR syntactic OR "syntactic movement" OR verb)) OR Reading OR (Reading AND "self-paced") OR Word OR (Word AND (class OR frequency OR length)) OR Ambiguity OR Discourse OR "Dual task" OR "Gap-filling" OR "Gap filling" OR "Gapfilling" OR "Lexical variable" OR "Lexical variables" OR Linguistics OR "Morphological cues" OR "NP-movement" OR "NP- movement" OR Prediction OR "Spoken word recognition" OR Syntax OR "Wh-movement" OR "Wh-movement"))

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### **Search String for ProQuest (Dissertations & Theses)**

(su("Language disorders") OR su("Aphasia") OR ti("Acquired disabilities" OR ((Individual OR Individuals OR people OR person OR persons) AND ("brain-damaged" OR "brain damaged" OR "neurological disease" OR "non-brain damaged" OR "non-brain-damaged" OR "non brain damaged"))) OR Aphasia OR ((Aphasia OR aphasic) AND (agrammatic OR Broca's OR fluent OR individual OR individuals OR "non-fluent" OR people OR person OR persons OR stroke OR Wernicke's)) OR "Neurological disease patients") OR ab("Acquired disabilities" OR ((Individual OR Individuals OR people OR person OR persons) AND ("brain-damaged" OR "brain damaged" OR "neurological disease" OR "non-brain damaged" OR "non-brain-damaged" OR "non brain damaged"))) OR Aphasia OR ((Aphasia OR aphasic) AND (agrammatic OR Broca's OR fluent OR individual OR individuals OR "non-fluent" OR people OR person OR persons OR stroke OR Wernicke's)) OR "Neurological disease patients"))

AND

(su("Eye movements") OR ti("Eye-tracking" OR Eyetracking OR ((Eye OR visual) AND (movement OR movements OR tracking OR fixate OR fixated OR fixation OR fixations OR latency OR latencies)) OR Gaze OR Saccades OR Saccadic) OR ab("Eye-tracking" OR Eyetracking OR ((Eye OR visual) AND (movement OR movements OR tracking OR fixate OR fixated OR fixation OR fixations OR latency OR latencies)) OR Gaze OR Saccades OR Saccadic)) AND (su("Listening comprehension") OR su("Reading comprehension") OR ti(Analysis OR (Analysis AND (lexical OR semantic)) OR Comprehension OR (Comprehension AND (agrammatic OR antecedent OR interpretive OR "off-line" OR "pragmatic sentence" OR pronoun OR reading OR sentence)) OR Language OR ((Language OR speech)

AND

(comprehension OR perception)) OR Processing OR (Processing AND (anaphor OR antecedent OR "co-reference" OR discourse OR language OR lexical OR "lexical-semantic" OR "morpho-syntactic" OR online OR "online sentence" OR "online reading" OR pronoun OR sentence OR syntactic OR "syntactic movement" OR verb)) OR Reading OR (Reading AND "self-paced") OR Word OR (Word AND (class OR frequency OR length)) OR Ambiguity OR Discourse OR "Dual task" OR "Gap-filling" OR "Gap filling" OR "Gapfilling" OR "Lexical variable" OR "Lexical variables" OR Linguistics OR "Morphological cues" OR "NP-movement" OR "NP- movement" OR Prediction OR "Spoken word recognition" OR Syntax OR "Wh-movement" OR "Wh- movement") OR ab(Analysis OR (Analysis AND (lexical OR semantic)) OR Comprehension OR (Comprehension AND (agrammatic OR antecedent OR interpretive OR "off-line" OR "pragmatic sentence" OR pronoun OR reading OR sentence)) OR Language OR ((Language OR speech) AND (comprehension OR perception)) OR Processing OR (Processing AND (anaphor OR antecedent OR "co-reference" OR discourse OR language OR lexical OR "lexical-semantic" OR "morpho-syntactic" OR online OR "online sentence" OR "online reading" OR pronoun OR sentence OR syntactic OR "syntactic movement" OR verb)) OR Reading OR (Reading AND "self-paced") OR Word OR (Word AND (class OR frequency OR length)) OR Ambiguity OR Discourse OR "Dual task" OR "Gap-filling" OR "Gap filling" OR "Gapfilling" OR "Lexical variable" OR "Lexical variables" OR Linguistics OR "Morphological cues" OR "NP-movement" OR "NP- movement" OR Prediction OR "Spoken word recognition" OR Syntax OR "Wh-movement" OR "Wh- movement"))