**Appendix 1** Search strategies.

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| MEDLINE (via PubMed) |
| #3 | Add | Search ((language disorders or language therapy or development disorders or rehabilitation of speech or speech therapy)) AND (children or preschool) |
| #2 | Add | Search randomized |
| #1 | Add | Search (event related potential or p300 or evoked potential) |
| SCIENCEDIRECT  |
| (language disorders or language therapy or development disorders or rehabilitation of speech or speech therapy) and (event related potential or p300 or evoked potential) |
| Apply filters: journal |
| Limit to: child |
|  |
| LiLACS |
| (P300 or potencial evocado auditivo or potencial relacionado a evento) AND (desordens de linguagem or terapia de linguagem)  |
| (language disorders or language therapy or development disorders or rehabilitation of speech or speech therapy) and (event related potential or p300 or evoked potential) AND (child or children or preschool) |
|  |
| SCIELO |
| (P300 or potencial evocado auditivo or potencial relacionado a evento) AND (desordens de linguagem or terapia de linguagem)  |
|  |
| SCOPUS |
| (language disorders or language therapy or development disorders or rehabilitation of speech or speech therapy) and (event related potential or p300 or evoked potential) AND (child or children or preschool) |
|  |
| WEB OF SCIENCE |
| TS= ((language disorders or language therapy or development disorders or rehabilitation of speech or speech therapy) and (event related potential or p300 or evoked potential) AND (child or children or preschool)) |
|  |
| OPENGREY.EU |
| P300 AND LANGUAGE |
| event-related potentials AND DISORDERS LANGUAGE |
| event-related potentials AND LANGUAGE |
|  |
| DissOnline.de  |
| P300 AND LANGUAGE  |
| event-related potentials AND LANGUAGE |
| event-related potentials AND DISORDERS LANGUAGE  |