



## WRITING SKILLS INTERVENTION FOR DEAF CHILDREN: SCOPING REVIEW

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### **Abstract**

Writing skills are an important aspect of learning and communication, including for deaf children. However, deaf children generally experience difficulties in writing due to their limited language and knowledge. This study aims to review the various interventions that have been conducted to improve writing skills in deaf children. The scoping review method was used to compile the literature related to writing skill interventions in deaf children. The literature was collected through Harzing's Publish or Perish 8.1.3625.7987 application using articles sourced from google scholar. The results of the review showed that there were 44 interventions that had been carried out, including application-based interventions, methods, learning models, modules, media, approaches, activities, techniques, and strategies.

**Keywords:** Intervention, Deaf, Scoping Review

### **Abstrak**

Keterampilan menulis merupakan salah satu aspek penting dalam proses pembelajaran dan komunikasi, termasuk bagi anak tunarungu. Namun, anak tunarungu umumnya mengalami kesulitan dalam menulis karena keterbatasan bahasa dan pengetahuan mereka. Penelitian ini bertujuan untuk mengkaji berbagai intervensi yang telah dilakukan untuk meningkatkan keterampilan menulis pada anak tunarungu. Metode scoping review digunakan untuk menyusun literatur terkait intervensi keterampilan menulis pada anak tunarungu. Literatur dikumpulkan melalui aplikasi Harzing's Publish or Perish 8.1.3625.7987 dengan menggunakan artikel yang bersumber dari google scholar. Hasil review menunjukkan bahwa terdapat 44 intervensi yang telah dilakukan, antara lain intervensi berbasis aplikasi, metode, model pembelajaran, modul, media, pendekatan, kegiatan, teknik, dan strategi.

**Kata kunci:** Intervensi, Tunarungu, Scoping Review

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## **INTRODUCTION**

Writing is a basic written communication activity for everyone, including deaf children. Nurbiana (2014) explains that writing is a medium for conveying ideas, thoughts and feelings through a series of meaningful words. Karasu (2017) added, writing is a challenging activity for all students because being able to channel thoughts through words uses a complex combination of skills. Writing skills require concise marketing, knowledge of syntactic structure, planning, planning, reviewing, and improving written products (Malik & Din, 2019).

Sentences are a fundamental element in writing. Good and effective sentences help the writer convey the message clearly, concisely and on target. According to Sasangka (2015), sentences are the smallest collection of language that can convey complete thoughts and information. Sentences without

subjects and predicates cannot be said to be sentences, but only groups of words. Composing sentence patterns is an expressive language ability that is closely related to receptive language, which is obtained from hearing (Ruspitayanti, et al. 2015). Lack of hearing ability in deaf children causes expressive language disorders, so that their skills in constructing sentence patterns are lower than children with normal hearing.

Deaf people are individuals with hearing impairment, from mild to severe, including deafness and hard of hearing (Marlina, 2015). Loss of hearing function results in obstacles to their language abilities, both spoken and written. Deaf children only acquire language through sight, so their language is incomplete (Khairunnisa, et al, 2016). The composition of written sentences for deaf children is often difficult to understand because the sentence structure is inaccurate and inverted (Sari, 2019).

A preliminary study at SLB YRTRW Surakarta showed that the majority of deaf students experienced difficulties in writing skills, especially in making sentences according to the Subject-Predicate-Object (S-P-O) structure. They often go back and forth in writing and pronouncing S-P-O sentences. This can hinder their development at school and in everyday life, because writing skills are very important for deaf children to communicate, learn, and participate in society. Therefore, interventions to improve the writing skills of deaf children are essential to help them develop their writing abilities and reach their full potential.

## METHOD

The search strategy used a scoping review type with the topic of writing skills intervention for deaf children in the last ten years. Literature was collected through the Harzing's Publish or Perish 8.1.3625.7987 application using a database sourced from Google Scholar, using the keywords "writing skills intervention for deaf children, writing ability intervention for deaf children, writing skills intervention for deaf children, and writing ability intervention for deaf children". According to Peterson et al (2017), the scoping review method is effective for assessing how a research topic is developing to then become the basis for future research development.

This research follows the 5-step scoping review procedure according to the guidelines from Arksey and O'Malley in 2005. The five steps include: (1) identifying problems and research questions, (2) identifying relevant articles, (3) selecting studies (selection). articles), (4) mapping the data (data charting) and (5) the final stage of collecting, summarizing and reporting the results (Arksey & O'Malley, 2005). The research stages are described in more detail as follows:

(1) Identifying problems and research questions. At this stage the researcher identifies research questions to be used as a reference in searching for articles. Identifying problems and research questions is also used to prevent sources that are not of good quality from being used and used as material for conducting research. Based on this, the question in this research is "What interventions are used to improve the writing skills of deaf children?". (2) Identify relevant articles Literature sources were obtained through searches using several search engines from Google Scholar via the Harzing's Publish

or Perish 8.1.3625.7987 application. The keywords used for literature searches in Indonesian were "writing skills interventions for deaf children and writing skills interventions for deaf children". Meanwhile, keywords in English include "writing skills intervention for deaf children, and writing abilities intervention for deaf children". The goal of the search strategy is to find research that has already been published. Based on searches on search engines using predetermined keywords, researchers found 201 articles related to the research topic.

(3) Selecting studies (article selection). At this stage the researcher selects literature obtained from various search engines mentioned previously based on the keywords that have been determined. The literature obtained will be selected according to the inclusion and exclusion categories of the research. The articles reviewed are all articles from 2014-2024 (the last 10 years), use Indonesian or English, full text is available, and are specific to the main question that is the focus of the review, namely the steps for preparing a research protocol. Based on the criteria and suitability of the literature to the research topic, 201 articles were obtained, then excluded because there was duplication to 184 articles. Of the 184 articles, further screening was then carried out by reading the abstract and full text. The 70 selected articles underwent critical appraisal to assess their quality, especially their suitability to the research objectives. In the end, 44 articles were obtained which will be analyzed further.

(4) Charting data (data charting). At this stage the researcher carries out literature analysis and collects the literature found in accordance with the research topic, namely the steps for compiling a research protocol. This data will form the basis of subsequent analysis. The mapping results will be categorized in Table 1. (5) Collect, summarize and report results. Compiling, summarizing and reporting the results is the final stage of preparing a scoping review study. The scoping review attempts to provide a general overview of all the articles reviewed and how best to present the problem. This requires some analytical framework or thematic construction to be able to present a narrative from the selected study literature (Arksey & O'Malley, 2005). At this stage, researchers carry out analysis, summarize and compile the selected literature and then report the results in results and discussion.

## **RESULTS AND DISCUSSION**

The following table presents a summary of the analysis of 44 articles that focus on interventions to improve writing skills in deaf children.

**Table 1.** Findings and Literature Results

| No | Authors and Years                  | Title   | Intervention                 | Results   |
|----|------------------------------------|---|------------------------------|---|
| 1. | Vebbyo Syaputri & Jon Efendi, 2021 | Efektivitas I-CHAT ( <i>I Can Hear and Talk</i> ) Untuk Meningkatkan Keterampilan Menyusun Pola Kalimat Bagi Anak Tunarungu di SLB Wacana Asih Padang | I-CHAT (I Can Hear and Talk) | Effectively used as a medium that can help to improving the skills of composing sentence patterns in grade VI deaf children at SLB Wacana Asih Padang in the 2020/2021 academic year. |

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| 2. | Defni Darwis, 2014  | Efektivitas Metode Latihan Sensoris Motor Dalam Meningkatkan Kemampuan Menulis Huruf (Vokal) Bagi Anak Tunarungu Sedang                                   | Sensory motor training method         | Effectively used to improve abilities writing vowel letters for middle class I deaf children at SLDB N 015 Bangkinang, Riau.             |
| 3. | Amy R. Lederberg, Elizabeth M. Miller, Susan R. Easterbrooks, & Carol McDonald Connor, 2014 | <i>Foundations for Literacy: An Early Literacy Intervention for Deaf and Hard-of-Hearing Children</i>   | Preschool early literacy intervention | Improving early literacy skills in DHH children with functional hearing.   |
| 4. | Winda Greatta Zakiah, Mohammad Anwar, & Priyono, 2018                                       | <i>Impact Of Project Based Learning Learning Model On The Ability Of Deaf Children To Build The Structure Of Sentence</i>                                 | Project based learning model learning | Influence on improvement the ability to structure children's sentences in deaf class 5 at SLB B YRTRW Surakarta 2017/2018 academic year. |
| 5. | Azizah Ma'rifah Yulia Tomara & Mega Iswari, 2019  | Keterampilan Menulis Lettering melalui Modul Pembelajaran pada Anak Tunarungu   | Learning module                       | Improving lettering skills for children deaf.  |
| 6. | Totok Warsito, 2014   | Meningkatkan Hasil Belajar Menulis Karangan Berdasarkan Topik Tertentu Melalui Media Presentasi Pada Siswa Kelas XII SMALB Tunarungu Karya Mulia Surabaya | Presentation media                    | Increased yield class XII SMALB Karya Mulia Surabaya students learn to write based on topics certain                                     |
| 7. | Sri Wulandari & Marlina, 2018   | Meningkatkan Kemampuan Menulis Kalimat Dengan Model Pembelajaran Picture And Picture Bagi Anak Tunarungu Kelas VIII Di SLB Negeri 2 Padang                | Picture and picture learning model    | Increase ability to write sentences of deaf children in class VIII at SLB Negeri 2 Padang  |
| 8. | Sitti Nurliani Tarigan, 2017  | Meningkatkan Keterampilan Siswa Tunarungu Dalam Menulis Karangan Sederhana Melalui Media Gambar Berseri Di Kelas DIV-B SLB-E Negeri Pembina Medan         | Serial Image                          | Improve skills writing simple essays for deaf students in classes D-IV-B SLB-E Negeri Pembina Medan.                                     |
| 9. | Ariensa Gita Pralistyo Putri, 2019  | Mind Mapping Terhadap Keterampilan Menulis Siswa  | Mind mapping                          | There is a significant effect of applying mind mapping on skills writing deaf  |

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| 10. | Sevi Indra Pratiwi, 2016                                  | Tunarungu Model Induktif Kata Bergambar Animasi Terhadap Kemampuan Menulis Permulaan Anak Tunarungu Di SLB  | Animated Picture Word Inductive Model        | students. Influential on beginning writing ability deaf child   |
| 11. | Tri Cahyono & Siti Masitoh, 2018                          | Model Induktif Kata Bergambar Seri Terhadap Kemampuan Menulis Permulaan Pada Siswa Tunarungu Kelas Rendah Di SDLB-B                               | Inductive Model of Picture Word Series       | There is a significant influence on the use of the inductive model of picture word series in learning writing beginnings in deaf students low classes (classes 1 and 2) at SDLB-B Karya Mulia I Surabaya.   |
| 12. | Isnaini Nurhalimah, 2017                                  | Model Pembelajaran Kontekstual Terhadap Kemampuan Menulis Peserta Didik Tunarungu Di Sekolah Luar Biasa   | Contextual Learning Model                    | There is a significant influence on the use of learning models contextual to writing ability personal experiences of deaf students at SMPLB-B Karya Mulia Surabaya  |
| 13. | Maria Agustina Mera, Rudy Sumiharsono & Kustiyowati, 2023 | Pemanfaatan Metode SAS (Struktural Analitik Sintetik) dalam Meningkatkan Kemampuan Membaca Permulaan dan Menulis Permulaan Siswa Tunarungu Wicara | SAS Method (Synthetic Analytical Structural) | 1) Research by utilizing the SAS method, grade 1 students at SDLB Bhakti Luhur Malang have become skilled in read and write both letters, syllables, words, words and simple sentences in the rules beginning reading and writing and students also pay more attention to the teacher's explanations well and students are more enthusiastic in learning and students find it easy to learn language structures.<br>2) By applying the SAS method, it can improve the initial reading and writing skills of grade 1 students at SDLB Bhakti Luhur Malang. |
| 14. | Ervina Dyah Kusumaningtyas , 2017                         | Pendekatan Saintifik dalam Pembelajaran Menulis Anak Tunarungu Kelas V Di SDLB B  | Scientific approach                          | Significant influence on the use of the approach scientific knowledge in learning to write science concepts about changes in the shape of objects in deaf children in class V at SDLB-B Karya Mulia I Surabaya  |
| 15. | Alfina Darmayanti,  | Pendekatan Saintifik terhadap Kemampuan   | Scientific approach                          | 1. There is a difference in the value of the ability to   |

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|     | 2017   | Menulis Deskripsi Pada Siswa Tunarungu Di Sekolah Luar Biasa   |   | write descriptions in deaf students before being given intervention using a scientific approach the average value is 41.6 and after being given intervention with using a scientific approach with average values average 76.6.   |
| 16. | Diyah Ery Meliana, 2016                                    | Pendekatan Saintifik Terhadap Kemampuan Menulis Narasi Anak Tunarungu Kelas IV SDLB  | Scientific approach                                   | 2. There is a significant influence on the application of the approach scientific knowledge of the ability to write descriptions class II deaf students at SLB Muhammadiyah Sidayu Gresik Approach scientific influence on the ability to write narratives of deaf children in class IV at SDLB PGRI Kawedanan Magetan.   |
| 17. | Furi Fuziana Wati, M Shodiq A M & Henry Praherdhiono, 2019 | Penerapan Metode Field Trip dalam Pembelajaran Menulis Karangan Deskripsi pada Siswa Tunarungu   | Field Trip Method                                     | The field trip method in writing descriptive essays can significantly influence student learning outcomes compared to using conventional methods.   |
| 18. | Falachaini Anitya Putri, 2018                              | Pengaruh Kegiatan Story Telling Berbasis Buku Cerita Bergambar Terhadap Kemampuan Menulis Kalimat Sederhana Siswa Tunarungu Kelas Rendah SDLB Bina Bangsa Sidoarjo | Story Telling Activities Based on Picture Story Books | 1. There is a significant influence on story telling activities based on picture story books on the ability to write simple sentences of deaf class students low SDLB Bina Bangsa Sidoarjo.<br>2. Ability to write simple sentences low class deaf students at SDLB Bina Sidoarjo nation before it was given storybook-based story telling activities low image with average value 56.87.<br>3. The ability to write simple sentences of low class deaf students at SDLB Bina Bangsa Sidoarjo after being given story telling activities based on picture story books improved with grades average 83.75. |

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| 19. | Atika Rahma<br>Rohadatul<br>'Aisy, 2019         | Pengaruh Media Magic<br>Sands terhadap<br>Kemampuan Menulis<br>Permulaan pada<br>Tunarungu Kelas Dasar<br>1  | Magic Sands<br>Media                          | There is a significant<br>influence the use of magic<br>sands media on initial<br>writing skills in elementary<br>class 1 deaf people at SLB<br>B Wiyata Dharma I<br>Sleman.  |
| 20. | Agus Damiran,<br>2022                           | Pengaruh Metode<br>Karyawisata terhadap<br>Keterampilan Menulis<br>Karangan Deskripsi<br>pada Siswa Tunarungu<br>Kelas VII SMPLB B di<br>SLB Negeri Gedangan<br>Sidoarjo Semester II<br>Tahun Pelajaran<br>2021/2022 | Field Trip<br>Method                          | There is a significant effect<br>of using the field trip<br>method on descriptive<br>essay writing skills for<br>class VII SMPLB-B SLB<br>Negeri Gedangan Sidoarjo<br>students, with a value of<br>$ZH=2.47 > Z$ table 5%<br>1.96.  |
| 21. | Desi Cahya<br>Rachmawati &<br>Pramono, 2015     | Pengaruh Model<br>Pembelajaran Concept<br>Sentence Terhadap<br>Kemampuan Menulis<br>Deskripsi Sederhana<br>Peserta Didik<br>Tunarungu Kelas VII  | Concept<br>Sentence<br>Learning Model         | Concept learning model<br>sentence has a good<br>influence on students'<br>ability to write descriptions<br>deaf  |
| 22. | Nur Jaya &<br>Yuliyati, 2018                    | Pengaruh Pendekatan<br>Proses Menulis<br>Terhadap<br>Keterampilan Menulis<br>Narasi Siswa Tunarungu<br>Di SLB-B Dharma<br>Wanita Sidoarjo  | Writing Process<br>Approach                   | There is a significant<br>influence of the process<br>approach writing towards<br>skills writing narratives of<br>deaf students at SLB-B<br>Dharma Wanita Sidoarjo.   |
| 23. | Eryana<br>Fatimasari<br>Retno B<br>&Wagino 2015 | Pengaruh Penerapan<br>Metode Scramble<br>Terhadap Kemampuan<br>Menyusun Kalimat<br>Anak Tunarungu Kelas<br>V SDLB-B Dharma<br>Wanita Sidoarjo  | Scramble<br>Method                            | 1. There is a significant<br>influence on the<br>application of the method<br>scramble on the ability to<br>compose sentences deaf<br>children in class V of<br>SDLB-B Dharma Wanita<br>Sidoarjo.<br>2. There is a difference in<br>the value of composing<br>ability sentences to deaf<br>children before they are<br>given intervention using<br>the scramble method with<br>an average value of 69.16<br>and after being given using<br>the scramble method with<br>an average value of 94.16. |
| 24. | Nur Ahmad<br>Ardli Abdillah,<br>2014            | Pengaruh Penggunaan<br>Teknik Single Audience<br>Peer Feedback Terhadap<br>Keterampilan Menulis<br>Deskripsi Anak  | Single Audience<br>Peer Feedback<br>Technique | 1. Pretest results of<br>descriptive writing skills of<br>deaf children before being<br>given intervention using<br>the Single Audience Peer  |

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| 25. | Ina Agustin,<br>2019   | Pengembangan Lembar<br>Kerja Siswa (LKS)<br>Untuk Meningkatkan<br>Kemampuan Menulis<br>Siswa Tuna Rungu Di<br>SDN Inklusi  | Student<br>Worksheets<br>(LKS) |
| 26. | Norma Nia<br>Safitri &<br>Suparkun, 2014                                 | Pengembangan Media<br>Pop Up Book Untuk<br>Keterampilan Menulis<br>Narasi Siswa Tunarungu<br>Kelas IV  | Pop Up Book<br>Media           |
| 27. | Akmalia<br>Khairunnisa,<br>Permanarian<br>Somad & Dedy<br>Kurniadi, 2016 | Penggunaan Media<br>Adobe Flash Terhadap<br>Kemampuan Menulis<br>Struktur Kalimat<br>(SPOK) Pada Anak<br>Tunarungu Kelas VII<br>SMPLB di SLB BC<br>Permata Hati Sumedang | Adobe Flash<br>media           |
| 28. | Hamdan<br>Bachry, Joko<br>Yuwono, &                                      | Penggunaan Media<br>Word Wall Untuk<br>Meningkatkan  | Word wall<br>media             |

technique feedback received an average score of 8 out of a maximum score of 15 in 2 assessment aspects description writing skills.

2. Posttest results of description writing skills deaf children after being given intervention using the Single Audience Peer Technique Feedback received an average score of 14 out of a maximum score of 15 in 2 assessment aspects description writing skills.

3. Data analysis results show usage Single Audience Peer Feedback Technique have a significant effect on descriptive writing skills in children deaf class IV at SDLB-B Karya Mulia I Surabaya.

Effective use in learning to improve writing skills for deaf students.

After interactive pop up book media Indonesian language subjects are applied to fourth grade student at SDLB B Dharma Wanita Sidoarjo it can be concluded that deaf students can stimulate narrative writing skills as an effort to optimize language skills in the learning process.

The use of Adobe Flash media has a positive effect on the ability to write sentence structures in deaf students

Interventions used in this research is in the form of using Word Wall media to

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|     | Yuni Tanjung Utami, 2018                               | Kemampuan Menulis Tegak Bersambung (Studi Single Subject Research Pada Siswa Tunarungu Kelas III Di SKh Negeri 02 Kota Serang Banten)   |                             | increase the ability to write in cursive order learning for deaf students in class III SDLB SKh 02 Serang City, Banten.  |
| 29. | Khaulah, 2018  | Peningkatan Kemampuan Menyusun Kalimat Dengan Media Puzzle Kalimat Bagi Anak Tunarungu Kelas Dasar IV Di SLB B Wiyata Dharma 1 Sleman,D.I Yogyakarta                                    | Media Sentence Puzzle       | Ability to compose sentences using sentence puzzle media in elementary class IV deaf children at SLB B Wiyata Dharma 1 Sleman has increased  |
| 30  | Fisia Malonda, Donal M. Rattu & Mayske R. Liando, 2022 | Peningkatan kemampuan Menulis dalam Pembelajaran yang Menggunakan Media Gambar untuk Siswa Tunarungu SLB Finjili di Pulau Lembah  | Image media                 | The use of image media can improve the ability to write poetry for deaf students Funjungi SLB on Lembah Island   |
| 31. | Rahayu Dwi Putriani, 2016                              | Peningkatan Kemampuan Menulis Deskripsi Menggunakan Metode Karyawisata Untuk Anak Tunarungu Kelas X Di Slb Negeri Purbalingga The Improvement Of Writing Ability Using Studytour Method | Field trip method           | The use of the field trip method can improve the learning process of descriptive writing skills in class X deaf students in State Special Schools Purbalingga.   |
| 32  | Suhardini Intikasari Tumardi Endro Wahyuno, 2014       | Peningkatan Kemampuan Menulis Kalimat Sederhana Melalui Media Keping Kata Bergambar Pada Siswa Tunarungu Di SDLB  | Illustrated Word Chip Media | <p>1. The use of picture word chip media for deaf class II students at SDLB Negeri Jombatan 7 Jombang includes arranging picture words into simple sentences right, write simple sentences. With use of picture word chip media in learning to write students' simple sentences looks active in participating in learning activities designed using the game method</p> <p>2. Use of pictorial word chip media and can improve your ability to write sentences simple for deaf class II students at SDLB Negeri Jombatan 7</p> |

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| 33. | Sudarmi, 2022                       | Peningkatan Kompetensi Menulis Teks Laporan Bahasa Indonesia melalui Media Gambar Seri bagi Peserta Didik Tunarungu  | Series Image Media                | Jombang.<br>Serial image media makes students more active, participative and can increase competence write report text.  |
| 34. | Rina Puspita Sari, 2015             | Peningkatan Kemampuan Menulis Karangan Deskripsi Melalui Teknik Peta Pikiran (Mind Mapping) Pada Anak Tunarungu Kelas VII Di Sekolah Luar Biasa Marsudi Putra I  | Mind Map Technique (Mind Mapping) | The ability to write descriptive essays can be improved by using mind mapping techniques for deaf children in class VII at SLB Marsudi Putra I.                              |
| 35. | Asyharul Fachruda Nur Firdaus, 2019 | Peningkatan Kemampuan Menulis Paragraf Melalui Model Induktif Kata Bergambar Bagi Siswa Tunarungu Kelas IV Di SLB BC YSBPD Wuryantoro                            | Picture Word Inductive Model      | Improved ability to write paragraphs through an inductive model of picture words in fourth grade elementary school deaf students.  |
| 36. | Trian Yuni Sarahwati, 2016          | Peningkatan Kemampuan Menulis Permulaan Melalui Metode <i>Peer Tutorial</i> (Tutor Sebaya) Anak Tunarungu Kelas Dasar II Di SLB Wiyata Dharma 1 Sleman           | Peer Tutorial Method (Peer Tutor) | Beginning writing abilities in deaf children elementary class II at SLB Wiyata Dharma 1 Sleman can be improved through the Peer Tutorial method.                             |
| 37. | Ghina Safira, 2016                  | Peningkatan Kemampuan Menulis Permulaan Menggunakan Teknik Pembelajaran Make A Match Pada Anak Tunarungu Kelas Dasar I Di SLB Wiyata Dharma 1 Sleman             | Make A Match Learning Technique   | The beginning writing ability of deaf children in elementary class I at SLB Wiyata Dharma 1 Sleman has increased through the make a match learning technique                 |
| 38. | Yudha Tri Prasetya, 2016            | Peningkatan Kemampuan Menulis Struktur Kata Melalui Penggunaan Media Teka Teki Silang Bagi Siswa Tunarungu Kelas Dasar I Di SLB B C Bhakti Putera Bahagia Klaten | Crossword Media                   | Improvement in the form of increasing ability in mastering letter concept writing, mastery of writing words $\leq$ 6 letters, and mastery of writing words $\geq$ 6 letters. |
| 39. | Ngesti Winahyu Arum, 2015           | Peningkatan Keterampilan Menulis Kalimat Melalui   | Contextual Approach               | Improving sentence writing skills through contextual approaches  |

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|     | Pendekatan Kontekstual<br>Pada Anak Tunarungu<br>Kelas V Di Sekolah<br>Luar Biasa Wiyata<br>Dharma 4 Godean | have increased.   |  |
| 40. | Nabilla Antrisna Putri, Warsiman & Titik Hermati, 2022  | Problem Based Learning Model Using Image Media<br>Learning Dengan Media Gambar  | Students' ability to write expository texts increases.   |
| 41. | Friska Prasetyaningrum, 2018  | Peningkatan Ketrampilan Menulis Kalimat Menggunakan Model Quantum Learning Pada Siswa Tunarungu Kelas IV Di SLB Ma'arif Bantul                  | Improving sentence writing skills through the quantum learning model has increased.  |
| 42. | Kurniati Laila, 2021  | Peranan Eksplorasi Pustaka Untuk Meningkatkan Ketrampilan Menulis Pada Siswa Tunarungu Kelas XI SLB Pembina Tingkat Nasional Bagian C Malang    | There is a role for library exploration in improving writing skills in deaf students in class XI SLB Pembina National Level Part C Malang  |
| 43. | Ristiadini Mita Aisyah, 2018  | Strategi Pemodelan Bermedia Flashcard Terhadap Kemampuan Menulis Teks Deskriptif Siswa Tunarungu Kelas 2 Di SLB-B                               | Flashcard Media Modeling Strategy<br>The modeling strategy using flashcard media has a significant influence on the ability to write descriptive text of deaf students at SDLB-B Karya Mulia 1 Surabaya. |
| 44. | Alfath Nuur Fajar Wahyu Subroto, Priyono & Dewi Sri Rejeki, 2019  | The Effect of Using Multimedia Application in Language Issues to Increase Vocabulary of Deaf Children Class III SLB B YRTRW Surakarta 2018-2019 | Multimedia applications<br>The effect of using multimedia sign language to increase the vocabulary of deaf children in class III SLB B YRTRW Surakarta in 2018/2019                                      |

Based on the review of the 44 eligible articles above, there are several types of interventions that can be used to improve writing skills in deaf children. These include application-based interventions, methods, learning models, modules, media, approaches, activities, techniques, and strategies. Application-based interventions were conducted by Syaputri and Efendi (2021) and Subroto, et al 2019. The intervention in the form of I-CHAT (I Can Hear and Talk) conducted by Syaputri and Efendi (2021) is effective as a medium that can help to improve the skills of composing sentence patterns in class VI deaf children at SLB Wacana Asih Padang in the 2020/2021 school year. Intervention in the form of multimedia applications conducted by Subroto, et al (2019) was able to increase the vocabulary of deaf

children in class III SLB B YRTR Surakarta in 2018/2019.

Method-based interventions were conducted by Darwis (2014), Lederberg, et al (2014), Putri (2019), Mera, et al (2023), Wati, et al (2019), Damiran (2022), Retno (2015), Putriani (2016), Sarahwati (2016), and Laila (2021). The intervention in the form of a motor sensory training method conducted by Darwis (2014) was effectively used to improve the ability to write vowel letters for moderate deaf children X class I at SDLB N 015 Bangkinang, Riau. The preschool early literacy intervention conducted by Lederberg, et al (2014) improved early literacy skills in DHH children with functional hearing. The mind mapping intervention conducted by Putri (2019) had a significant effect on the writing skills of deaf students. The intervention in the form of the SAS (Structural Analytic Synthetic) method conducted by Mera, et al (2023) can improve the reading and writing skills of first grade students of SDLB Bhakti Luhur Malang. The intervention in the form of a field trip method conducted by Wati, et al (2019) significantly affected student learning outcomes compared to the use of conventional methods.

The intervention in the form of a field trip method conducted by Damiran (2022) has a significant effect on the skill of writing description essays for students of class VII SMPLB-B SLB Negeri Gedangan Sidoarjo. The intervention in the form of scramble method conducted by Retno (2015) has a significant effect on the application of scramble method on the ability to compose sentences of deaf children in grade V SDLB-B Dharma Wanita Sidoarjo. Intervention in the form of a field trip method conducted by Putriani (2016) can improve the learning process of description writing skills in class X deaf students at SLB Negeri Purbalingga. Intervention in the form of peer tutorial method conducted by Sarahwati (2016). Intervention in the form of library exploration conducted by Laila (2021) improves writing skills for deaf students in class XI of SLB Pembina National Level Part C Malang.

Interventions based on learning models were conducted by Zakiah, et al (2018), Wulandari & Marlina (2018), Pratiwi (2016), Cahyono & Masitoh (2018), Nurhalimah (2017), Rachmawati & Pramono (2015), Firdaus (2019), Putri, et al (2022), and Prasetyaningrum (2018). The intervention in the form of project-based learning conducted by Zakiah, et al (2018) has an effect on improving the ability to compose sentence structures of deaf children in grade 5 at SLB B YRTRW Surakarta in the 2017/2018 academic year. Intervention in the form of picture and picture conducted by Wulandari & Marlina (2018) improves the ability to write sentences of deaf children in class VIII at SLB Negeri 2 Padang. Intervention in the form of inductive animated picture words conducted by Pratiwi (2016) has an effect on the ability to write beginnings in deaf children. The intervention in the form of inductive picture words series conducted by Cahyono & Masitoh (2018) has a significant effect on learning writing beginnings in low-grade deaf students (grades 1 and 2) at SDLB-B Karya Mulia I Surabaya.

## CONCLUSION

Based on the results of research regarding writing skills interventions for deaf children, it shows that there are various interventions that have been carried out, including application-based interventions,

methods, learning models, modules, media, approaches, activities, techniques and strategies. Most studies use media to provide interventions to improve writing skills in deaf children. From the overall analysis of the article, it shows that there is an increase in writing skills in deaf children.

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