

BAB V

SIMPULAN, IMPLIKASI, DAN REKOMENDASI

5.1. Simpulan

Hasil penelitian dan pembahasan yang telah diuraikan pada Bab IV, selanjutnya dibuatlah suatu kesimpulan penelitian. Pemaparan kesimpulan penelitian didasarkan pada rumusan masalah penelitian sehingga jawaban penelitian disimpulkan seperti di bawah ini.

1. Implementasi pembelajaran pendidikan jasmani adaptif pada anak berkebutuhan khusus selama pandemi *COVID-19* terlaksana dengan baik sekali (72.64%) dengan partisipasi tertinggi di kepulauan Kalimantan (91%) dan mengampu tunalaras (88%).
2. Dimensi dalam implementasi pembelajaran pendidikan jasmani adaptif pada anak berkebutuhan khusus selama pandemi *COVID-19* di Indonesia yaitu 1) Dimensi perencanaan pembelajaran terlaksana dengan baik sekali (80.19%) dengan partisipasi tertinggi di kepulauan Sunda Kecil & Kalimantan (92%) dan mengampu tunalaras (94%); 2) Dimensi pelaksanaan pembelajaran terlaksana dengan baik sekali (61.31%) dengan partisipasi tertinggi di kepulauan Kalimantan (88%) dan mengampu tunalaras (85%); 3) Dimensi penilaian pembelajaran terlaksana dengan baik sekali (66.04%) dengan partisipasi tertinggi di kepulauan Kalimantan (91%) dan mengampu tunalaras (86%); 4) Dimensi evaluasi pembelajaran terlaksana baik sekali (72.64%) dengan partisipasi tertinggi di kepulauan Kalimantan (94%) dan mengampu tunanetra & autisme (88%).
3. Strategi pembelajaran pendidikan jasmani adaptif pada anak berkebutuhan khusus selama pandemi *COVID-19* di Indonesia terlaksana baik sekali (66.04%) dengan partisipasi tertinggi di kepulauan Jawa & Kalimantan (88%) dan mengampu tunalaras (89%).
4. Dimensi dalam strategi pembelajaran pendidikan jasmani adaptif pada anak berkebutuhan khusus selama pandemi *COVID-19* di Indonesia yaitu 1) Dimensi perencanaan strategi pembelajaran terlaksana dengan baik (58.49%) dengan partisipasi tertinggi di kepulauan Jawa (78%) dan mengampu tunalaras (85%); 2) Dimensi pelaksanaan strategi pembelajaran terlaksana dengan baik sekali (60.38%) dengan partisipasi tertinggi di kepulauan Kalimantan (86%) dan mengampu tunalaras (84%); 3) Dimensi modifikasi strategi pembelajaran terlaksana dengan baik sekali (59.43%) dengan partisipasi tertinggi di kepulauan Sumatera dan mengampu tunanetra (87%), dan; 4) Dimensi evaluasi strategi

pembelajaran terlaksana dengan baik sekali (50.93%) dengan partisipan tertinggi di kepulauan Kalimantan (85%) dan mengampu tunaganda (83%).

5.2. Implikasi

Implikasi penelitian ini dibuat berdasarkan analisis dari hasil dan kesimpulan penelitian yang disesuaikan dengan dampak yang ditimbulkan dari adanya penelitian ini. Berkaitang dengan hal tersebut maka implikasi penelitian ini dijelaskan seperti di bawah ini.

1. Diketuainya hasil analisis variabel implementasi pembelajaran pendidikan jasmani adaptif pada ABK berdampak pada upaya peningkatan kualitas kompetensi guru dalam implementasi pembelajaran selama pandemi di Indonesia.
2. Diketuainya hasil dimensi-dimensi dalam implementasi pembelajaran pendidikan jasmani adaptif pada ABK berdampak pada upaya peningkatan kualitas pemahaman guru berkaitan dengan perencanaan pembelajaran, pelaksanaan pembelajaran, penilaian pembelajaran, dan evaluasi pembelajaran selama pandemi di Indonesia.
3. Diketuainya hasil variabel strategi pembelajaran pendidikan jasmani adaptif pada ABK berdampak pada upaya peningkatan kualitas kompetensi guru dalam strategi pembelajaran selama pandemi *COVID-19* di Indonesia.
4. Diketuainya hasil dimensi-dimensi dalam strategi pembelajaran pendidikan jasmani adaptif pada ABK berdampak pada upaya peningkatan kualitas pemahaman guru berkaitan dengan perencanaan strategi pembelajaran, pelaksanaan strategi pembelajaran, modifikasi strategi pembelajaran, dan evaluasi strategi pembelajaran selama pandemi di Indonesia.

5.3. Rekomendasi

Rekomendasi penelitian dianalisis berdasarkan hasil dan kesimpulan penelitian yang telah dilakukan. Penelitian ini memberikan rekomendasi ditujukan pada khalayak tertentu yang dijabarkan dalam beberapa poin sebagai berikut.

1. Kepada Kepala Sekolah SLB/SKh dan pemangku kebijakan di Indonesia, yaitu dalam membuat kebijakan dalam pembelajaran pendidikan jasmani adaptif dapat memperhatikan hasil penelitian ini dengan mengoptimalkan program dan pelatihan sebagai bekal guru dalam pembelajaran selama pandemi.
2. Kepada guru pendidikan jasmani adaptif agar dapat mempertahankan dan meningkatkan kualitas dalam implementasi pembelajaran dan strategi pembelajaran selama pandemi.

3. Kepada siswa berkebutuhan khusus, agar dioptimalkan dalam layanan pendidikan oleh guru pendidikan jasmani adaptif ditinjau implementasi pembelajaran dan strategi pembelajaran agar dapat semakin mendapat layanan pembelajaran bervariasi lainnya selama pandemi.
4. Kepada peneliti berikutnya yang akan membuat riset lanjutan di masa mendatang diharapkan memperhatikan limitasi penelitian dengan ketentuan yaitu jumlah partisipan setiap provinsi yang seimbang, mengontrol psikologis partisipan, dan menguji skema akhir implementasi implementasi dan strategi pembelajaran pendidikan jasmani adaptif selama pandemi.
5. Kepada pembaca akan disuguhkan dengan *novelty* yang menjadi penguat temuan dari penelitian ini di antaranya 1) Populasi penelitian yaitu 34 Provinsi se Indonesia; 2) Ada analisis berdasarkan kepulauan; 3) Ada analisis berdasarkan jenis ketunaan; 4) Analisis kedua variabel berdasarkan dimensi, indikator, hingga butir; 5) Pengembangan instrumen dua variabel yaitu implementasi dan strategi pembelajaran.

DAFTAR PUSTAKA

- ABC. (2020). *Corona Cast. Gyms are sweaty. Are they risky?* https://www.abc.net.au/radio/programs/coronacast/gyms-are-sweaty-are-they-risky/12044196?utm_medium=spredfast&utm_source=fb_abc_news&utm_campaign=khoros&sf231309530=1
- Acaín, B., Gail, A., Ortiz, C., Cabales, V. I., Rafael, G., Rubin, J. L., Jr, R. A. A., Manalastas, R. D. C., Reyes, R. T. D., Capuno, R. G., Manguilimotan, R. P., & Jonathan, O. (2022). Barriers of Distance Learning in Physical Education of Learners with Hearing Impairment. *Journal of Positive School Psychology*, 6(2), 1759–1768.
- Adedoyin, O. B., & Soykan, E. (2020). COVID-19 pandemic and online learning: the challenges and opportunities. *Interactive Learning Environments*, 0(0), 1–13. <https://doi.org/10.1080/10494820.2020.1813180>
- Afacan, E., & Afacan, M. I. (2021). Physical education and sports for the physically disabled in terms of body sociology. *African Educational Research Journal*, 9(2), 467–473. <https://doi.org/10.30918/aerj.92.21.060>
- Alcaraz-Rodríguez, V., Medina-Rebollo, D., Muñoz-Llerena, A., & Fernández-Gavira, J. (2022). Influence of physical activity and sport on the inclusion of people with visual impairment: A systematic review. *International Journal of Environmental Research and Public Health*, 19(1). <https://doi.org/10.3390/ijerph19010443>
- Alias, A., & Salleh, N. M. (2017). Analysis Of Problems Faced By Special Education Teacher In Teaching The Multiple Disabilities Students. *Journal of ICSAR*, 1(1), 60–67. <https://doi.org/10.17977/um005v1i12017p060>
- American Psychiatric Association. (2013). *Diagnostic and Statistical Manual of Mental Disorders (DSM-5)*. American Psychiatric Pub.
- Amirzan, A., Sumarjo, S., Jafaruddin, J., Muhammad, M., Yahya, M., & Lestari, I. (2021). Teacher ' S Ability in Applying Adaptive Physical Education Learning To Children. *Kinestetik : Jurnal Ilmiah Pendidikan Jasmani* 5, 5(3), 649–656.
- Averett, K. H. (2021). Remote Learning, COVID-19, and Children With Disabilities. *AERA Open*, 7(1), 1–12. <https://doi.org/10.1177/23328584211058471>
- Ayre, C., & Scally, A. J. (2014). Critical values for Lawshe's content validity ratio: Revisiting the original methods of calculation. *Measurement and Evaluation in Counseling and Development*, 47(1), 79–86. <https://doi.org/10.1177/0748175613513808>
- Bailey, R. (2006). General Article Physical Education and Sport in Schools : A Review of Benefits and Outcomes. *Journal of School Health*, 76(8), 397–401. <https://doi.org/10.1111/j.1746-1561.2006.00132.x>
- Bailey, R., Armour, K., Kirk, D., Jess, M., Pickup, I., & Sandford, R. (2009). The educational benefits claimed for physical education and school sport: An academic review. *Research Papers in Education*, 24(1), 1–27. <https://doi.org/10.1080/02671520701809817>
- Baloran, E. T. (2020). Knowledge, Attitudes, Anxiety, and Coping Strategies of Students during COVID-19 Pandemic. *Journal of Loss and Trauma*, 25(8), 635–642. <https://doi.org/10.1080/15325024.2020.1769300>
- Barboza, C. F. S., Ramos, A. S. L., Abreu, P. A., & Castro, H. C. (2019). Physical Education: Adaptations and Benefits for Deaf Students. *Creative Education*, 10(04), 714–725. <https://doi.org/10.4236/ce.2019.104053>
- Bergin, C. (2019). Social goals in the classroom: Findings on Student Motivation and Peer Relations. In *Prosocial Goals* (pp. 93–110). Routledge.

- <https://doi.org/10.4324/9780429468452-6>
- Bertills, K., Granlund, M., & Augustine, L. (2019). Inclusive Teaching Skills and Student Engagement in Physical Education. *Frontiers in Education*, 4(August), 1–13. <https://doi.org/10.3389/feduc.2019.00074>
- Biaastro, L., Frank, H., & Larwin, K. H. (2015). Looking at the Social Activity for Adolescents with Orthopedic Impairments. *International Journal of Evaluation and Research in Education (IJERE)*, 4(3), 106. <https://doi.org/10.11591/ijere.v4i3.4500>
- Bozdağ, F. (2021). The psychological effects of staying home due to the COVID-19 pandemic. *Journal of General Psychology*, 148(3), 226–248. <https://doi.org/10.1080/00221309.2020.1867494>
- Brom, C., Lukavsky, J., Greger, D., & Hannemann, T. (2020). Mandatory Home Education during the COVID-19 Lockdown in the Czech Republic : A Rapid Survey of 1 st -9 th Graders' Parents. *Frontiers in Education*, 5(103), 1–11. <https://doi.org/10.31234/osf.io/fbhn3>
- Browning, M. H. E. M., Larson, L. R., Sharaievska, I., Rigolon, A., McAnirlin, O., Mullenbach, L., Cloutier, S., Vu, T. M., Thomsen, J., Reigner, N., Metcalf, E. C., D'Antonio, A., Helbich, M., Bratman, G. N., & Alvarez, H. O. (2021). Psychological impacts from COVID-19 among university students: Risk factors across seven states in the United States. *PloS One*, 16(1), e0245327. <https://doi.org/10.1371/journal.pone.0245327>
- Bruner, J. (1971). *The Relevance of Education*. Norton.
- Bujang, M. A., Omar, E. D., & Baharum, N. A. (2018). A review on sample size determination for cronbach's alpha test: A simple guide for researchers. *Malaysian Journal of Medical Sciences*, 25(6), 85–99. <https://doi.org/10.21315/mjms2018.25.6.9>
- Burhaein, E. (2020a). Bagaimana Pendidikan Jasmani Adaptif di Era New Normal. In *Bunga Rampai Strategi, Proses, Evaluasi, dan Model Pembelajaran Pendidikan Jasmani, Olahraga, dan Kesehatan (PJOK) pada Era Pandemi COVID-19*. UNESA University Press.
- Burhaein, E. (2020b). Pembelajaran dalam Pandemi COVID-19: Mengapa Pendidikan Jasmani Adaptif Penting untuk Siswa Disabilitas di Sekolah Luar Biasa. In *Disrupsi Strategi Pembelajaran Olahraga: Serta Tantangan dalam Menghadapi New Normal selama masapandemi COVID-19* (pp. 187–196). Akademia Pustaka.
- Burhaein, E., Demirci, N., Lourenço, C. C. V., Németh, Z., & Phytanza, D. T. P. (2021). Coping with the COVID-19 pandemic: the role of physical activity. An international position statement. *International Sports Studies*, 43(1), 52–70. <https://doi.org/10.30819/iss.43-1.05>
- Burhaein, E., Phytanza, D. T. P., & Demirci, N. (2020). The development and validation of a revised Friendship Activity Scale and Adjective Checklist for use in the Indonesian Unified Sports program. *International Sports Studies*, 42(e), 18–28. <https://doi.org/10.30819/iss.42-e.03>
- Burhaein, E., Tarigan, B., Budiana, D., Hendrayana, Y., & Phytanza, D. T. P. (2021). Physical Activity Level of Students with Disabilities during COVID-19 Pandemic. *Jurnal Pendidikan Jasmani Dan Olahraga*, 6(2), 19–21. <https://doi.org/10.17509/jpjo.v6i2.38547>
- Burhaein, E., Tarigan, B., Budiana, D., Hendrayana, Y., & Phytanza, D. T. P. (2022). Profile of changes in adaptive physical education learning during the COVID-19 pandemic. In *Innovation on Education and Social Sciences* (1st ed., pp. 19–28). Routledge. <https://doi.org/10.1201/9781003265061-3>

- Burhaein, E., Tarigan, B., Budiana, D., Hendrayana, Y., Phytanza, D. T. P., Lourenço, C., Permana, D., & Nuruldani, G. (2021). Dimensions in The Learning Implementation and Strategies of Adapted Physical Education for Children with Special Needs during The COVID-19 Pandemic: A Literature Review & Grounded Theory. *Sport Science*, 15(1), 189–201.
- Burhaein, E., Tarigan, B., & Phytanza, D. T. P. (2020). The experience and understanding of the K-13 curriculum implementation of Indonesian teachers of Adapted Physical Education (APE). *International Sports Studies*, 42(e), 29–42. <https://doi.org/10.30819/iss.42-e.04>
- Cachia, A. (2013). Talking Blind: Disability, Access, and the Discursive Turn. *Disability Studies Quarterly*, 33(3), 1–19. <https://doi.org/10.18061/dsq.v33i3.3758>
- Campbell, J. P., & Turner, J. E. (2018). Debunking the Myth of Exercise-Induced Immune Suppression : Redefining the Impact of Exercise on Immunological Health Across the Lifespan. *Frontiers in Immunology*, 9(April), 1–21. <https://doi.org/10.3389/fimmu.2018.00648>
- Chen, P., Mao, L., Nassis, G. P., Harmer, P., Ainsworth, B. E., & Li, F. (2020). Coronavirus disease (COVID-19): The need to maintain regular physical activity while taking precautions. *Journal of Sport and Health Science*, 9(2), 103–104. <https://doi.org/10.1016/j.jshs.2020.02.001>
- Connell, J., Carlton, J., Grundy, A., Taylor Buck, E., Keetharuth, A. D., Ricketts, T., Barkham, M., Robotham, D., Rose, D., & Brazier, J. (2018). The importance of content and face validity in instrument development: lessons learnt from service users when developing the Recovering Quality of Life measure (ReQoL). *Quality of Life Research*, 27(7), 1893–1902. <https://doi.org/10.1007/s11136-018-1847-y>
- Connor Desai, S., & Reimers, S. (2019). Comparing the use of open and closed questions for Web-based measures of the continued-influence effect. *Behavior Research Methods*, 51(3), 1426–1440. <https://doi.org/10.3758/s13428-018-1066-z>
- Cook, B. G., Li, D., & Heinrich, K. M. (2015). Obesity, Physical Activity, and Sedentary Behavior of Youth With Learning Disabilities and ADHD. *Journal of Learning Disabilities*, 48(6), 563–576. <https://doi.org/10.1177/0022219413518582>
- Crim, C., Hawkins, J., Ruban, L., & Johnson, S. (2008). Curricular modifications for elementary students with learning disabilities in high-, average-, and low-IQ groups. *Journal of Research in Childhood Education*, 22(3), 233–245. <https://doi.org/10.1080/02568540809594624>
- Davenport, E. C., Jr., D., M. L., L., P.-Y., & Love, Q. U. (2015). Davenport (2015). *Educational Measurement: Issues and Practices*, 34(1), 4–9. <https://doi.org/10.1111/emip.12095>
- Davies, K. A. B. (2018). *Physical inactivity and sedentary time: impact on metabolic health and development of type 2 diabetes* [University of Liverpool]. <https://core.ac.uk/download/pdf/161101725.pdf>
- Demirci, N., & Phytanza, P. D. T. (2021). Investigation of Obesity, Physical Activity and Sedentary Behaviors of Individuals with and Without Autism Spectrum Disorder during the COVID-19 Pandemic Process. *JUMORA: Jurnal Moderasi Olahraga*, 1(02), 45–55. <https://doi.org/10.53863/mor.v1i02.220>
- Dimmock, J., Krause, A. E., Rebar, A., & Jackson, B. (2021). Relationships between social interactions, basic psychological needs, and wellbeing during the COVID-19 pandemic. *Psychology and Health*, May. <https://doi.org/10.1080/08870446.2021.1921178>
- Doolittle, S. (2016). Engaging Middle School Students in Physical Education and Physical Activity Programs. *Journal of Physical Education, Recreation & Dance*, 87(6), 29–34.

- <https://doi.org/10.1080/07303084.2016.1192940>
- Duggal, N. A., Niemi, G., Harridge, S. D. R., Simpson, R. J., & Lord, J. M. (2019). Can physical activity ameliorate immunosenescence and thereby reduce age-related multimorbidity? *Nature Reviews Immunology*, *19*(9), 563–572. <https://doi.org/10.1038/s41577-019-0177-9>
- Elfil, M., & Negida, A. (2019). Sampling methods in clinical research; an educational review. *Archives of Academic Emergency Medicine*, *7*(1), 3–5.
- European Disability Forum. (2020). *Open letter to leaders at the EU and EU countries: COVID-19 disability inclusive response*. Encyclopedia of Disability. <https://doi.org/10.4135/9781412950510.n305>
- Fatikhah, M. Al, Sumaryanti, Hartanto, A., Yachsie, B. T. P. W. B., Ayudi, A. R., Arianto, A. C., & Nurdin, U. (2022). Evaluation of Implementation of Adaptive Physical Education Learning During the COVID-19 Pandemic in SLB Yogyakarta City. *International Journal of Multidisciplinary Research and Analysis*, *05*(05), 495–505. <https://doi.org/10.47191/ijmra/v5-i2-38>
- Filiz, B., & Konukman, F. (2020). Teaching Strategies for Physical Education during the COVID-19 Pandemic: Editor: Ferman Konukman. *Journal of Physical Education, Recreation and Dance*, *91*(9), 48–50. <https://doi.org/10.1080/07303084.2020.1816099>
- Ford, M. B. (2021). Social distancing during the COVID-19 pandemic as a predictor of daily psychological, social, and health-related outcomes. *Journal of General Psychology*, *148*(3), 249–271. <https://doi.org/10.1080/00221309.2020.1860890>
- Forestry, S., Kristiyanto, A., & Legowo, E. (2019). Adaptive Physical Education for Children with Special Needs at Lazuardi Kamila Elementary School. *Journal of ICSAR*, *3*(2), 35–37. <http://journal2.um.ac.id/index.php/icsar/article/view/6430>
- Fraenkel, J. R., Wallen, N. E., & Hyun, H. H. (2012). *How to design and evaluate research in education*. Mc Graw Hill.
- Fridayati, B. A., Lubis, M. R., Fitriatun, E., & Yusuf, R. (2022). Strategi Pembelajaran Pendidikan Jasmani Adaptif di Sekolah Dasar Inklusif. *Discourse of Physical Education*, *1*(1), 41–56. <https://journal-center.litpam.com/index.php/dpe>
- Gravesande, J., Richardson, J., Griffith, L., & Scott, F. (2019). Test-retest reliability, internal consistency, construct validity and factor structure of a falls risk perception questionnaire in older adults with type 2 diabetes mellitus: a prospective cohort study. *Archives of Physiotherapy*, *9*(1), 1–11. <https://doi.org/10.1186/s40945-019-0065-4>
- Gu, Y. (2012). Learning Strategies: Prototypical Core and Dimensions of Variation. *Studies in Self-Access Learning Journal*, *3*(4), 330–356. <https://doi.org/10.37237/030402>
- Guthrie, E. R. (1940). Association and the law of effect. *Psychological Review*, *47*(1), 127–148.
- Haegle, J. A., & Lieberman, L. J. (2016). The current experiences of physical education teachers at schools for blind students in the United States. *Journal of Visual Impairment and Blindness*, *110*(5), 323–334. <https://doi.org/10.1177/0145482x1611000504>
- Haegle, J. A., Sato, T., Zhu, X., & Avery, T. (2017). Physical education experiences at residential schools for students who are blind: A phenomenological inquiry. *Journal of Visual Impairment and Blindness*, *111*(2), 135–147. <https://doi.org/10.1177/0145482x1711100205>
- Halfon, N., Houtrow, A., Larson, K., & Newacheck, P. W. (2012). The changing landscape of disability in childhood. *Future of Children*, *22*(1), 13–42. <https://doi.org/10.1353/foc.2012.0004>
- Hambali, S., Akbaruddin, A., Bustomi, D., Rifai, A., Iskandar, T., Ridlo, A. F., Meirizal, Y.,

- Rusmana, R., & Tyas, R. A. (2021). The effectiveness learning of physical education on pandemic *COVID-19*. *International Journal of Human Movement and Sports Sciences*, 9(2), 219–223. <https://doi.org/10.13189/saj.2021.090208>
- Haris, Fahmil, Johandri Taufan, S. N. (2019). Peran Guru Olahraga bagi Perkembangan Pendidikan Jasmani Adaptif di Sekolah Luar Biasa. *Jurnal Basicedu*, 3(2), 524–532.
- Healy, S., Judge, J., Strehli, I., Colombo-Dougovito, A., Kwon, E., & Block, M. E. (2017). Implementing the adapted physical education E-learning program into physical education teacher education program. *Research in Developmental Disabilities*, 69(November), 18–29. <https://doi.org/10.1016/j.ridd.2017.07.001>
- Hoban, G., & Erickson, G. (2004). Dimensions of Learning for Long-term Professional Development: comparing approaches from education, business and medical contexts. *Journal of In-Service Education*, 30(2), 301–324. <https://doi.org/10.1080/13674580400200247>
- Hodge, S. R. (2010). *Adapted Physical Activity for Students with Special Needs* (Encycloped). Elsevier.
- Hojman, P., Gehl, J., Christensen, J. F., & Pedersen, B. K. (2017). Molecular Mechanisms Linking Exercise. *Cell Metabolism*, 27(1), 10–21. <https://doi.org/10.1016/j.cmet.2017.09.015>
- Horvat, M., Croce, R. V., Pesce, C., & Fallaize, A. (2019). *Developmental and Adapted Physical Education* (6th ed.). Routledge.
- Hughes, N., & Anderson, G. (2020). The experience of the *COVID-19* pandemic in a UK learning disability service: lost in a sea of ever changing variables—a perspective. *International Journal of Developmental Disabilities*, 0(0), 1–4. <https://doi.org/10.1080/20473869.2020.1773711>
- Hyman, M. R., & Sierra, J. J. (2016). Open- versus close-ended survey questions. *Business Outlook*, 14(2), 1–5.
- Idi, A. (2011). *Pengembangan Kurikulum Teori & Praktik*. Ar-Ruzz Media.
- Jeong, H. C., & So, W. Y. (2020). Difficulties of *online* physical education classes in middle and high school and an efficient operation plan to address them. *International Journal of Environmental Research and Public Health*, 17(19), 1–13. <https://doi.org/10.3390/ijerph17197279>
- Jihad, A., & Abdul, H. (2013). *Evaluasi Pembelajaran*. Multi Pressindo.
- Jumareng, H., Setiawan, E., Asmuddin, A., Rahadian, A., Gazali, N., & Badaruddin, B. (2022). *Online Learning for Children with Disabilities During the COVID-19: Investigating Parents' Perceptions*. *Qualitative Report*, 21(3), 591–604. <https://doi.org/10.46743/2160-3715/2022.4926>
- Kaji, M., & Ono, Y. (2021). Study on learning strategies in elementary school physical education. *Journal of Physical Education and Sport*, 21(6), 3211–3217. <https://doi.org/10.7752/jpes.2021.s6439>
- Kaloka, P. T., Purwanto, S., & Wibowo, Y. A. (2019). Analysis Implementation Learning Adapted Physical Education in State High School. *Advances in Social Science, Education and Humanities Research*, 278(YISHPESS), 54–57. <https://doi.org/10.2991/yishpess-cois-18.2018.13>
- Kauffman, J. M., & Hallahan, D. P. (2011). *Handbook of special education*. Routledge.
- Kim, M., Santiago, J. A., Park, C. W., & Kim, M. J. (2022). Adapted Physical Education Teaching *Online* During *COVID-19*: Experiences from the South of the United States. *International Journal of Disability, Development and Education*, 69(1), 239–252. <https://doi.org/10.1080/1034912X.2021.2011157>

- Kiphard, E. (1983). Adapted physical education in Germany. In *Adapted physical activity: From theory to application* (In: Eason, pp. 25–32). Human Kinetics, Champaign.
- Kustantri, O. F., Sukamti, E. R., & Nanda, F. A. (2022). Implementation and indicator of limited face-to-face physical education in COVID-19. *Jurnal SPORTIF: Jurnal Penelitian Pembelajaran*, 7(4), 1–14. https://doi.org/10.29407/js_unpgri.v7i4.17385
- Kwon, E. H., Block, M., Healy, S., & Kim, T. E. (2022). Adapted physical education: The perspective of asian parents. *International Journal of Environmental Research and Public Health*, 19(1), 1–10. <https://doi.org/10.3390/ijerph19010091>
- Lawshe, C. H. (1975). A quantitative approach to content validity. *Personnel Psychology*, 28(4), 563–575. <https://doi.org/10.1111/j.1744-6570.1975.tb01393.x>
- Lieberman, L. J., Lepore, M., Lepore-Stevens, M., & Ball, L. (2019). Physical Education for Children with Visual Impairment or Blindness. *Journal of Physical Education, Recreation and Dance*, 90(1), 30–38. <https://doi.org/10.1080/07303084.2018.1535340>
- Lynch, T. (2016). United Nations Sustainable Development Goals: Promoting health and well-being through physical United Nations Sustainable Development Goals: Promoting health and well-being through physical education partnerships. *Cogent Education*, 3(1), 1–15. <https://doi.org/10.1080/2331186X.2016.1188469>
- Mahmood, S. (2021). Instructional Strategies for Online Teaching in COVID-19 Pandemic. *Human Behavior and Emerging Technologies*, 3(1), 199–203. <https://doi.org/10.1002/hbe2.218>
- Mariani, L. (2002). Learning strategies, teaching strategies and new curricular demands: A critical view. *A Journal of TESOL - Italy*, 29(2), 45–56.
- Martin, J. J. (2014). Adapted physical education. In *Encyclopedia of Sport and Exercise Psychology* (pp. 11–13). Sage. <https://doi.org/10.1016/j.psychsport.2007.07.004>
- Martínez, P. Y. O., López, J. A. H., & Teixeira, A. M. (2022). Physical activity during school recess and physical education among deaf school children. *Revista Brasileira de Educação Especial*, 28(Special Issue), 49–56. <https://www.scielo.br/j/rbee/a/PygPdRfSLQX3sK9mXjhcgDB/?format=pdf&lang=en>
- Marzano, R. J., Pickering, D. J., Arredondo, D. E., Blackburn, G. J., Brandt, R. S., Moffett, C. A., Paynter, D. E., Pollock, J. E., & Whisler, J. S. (1997). *Dimensions of learning teacher's manual* (2nd ed.). Mid-continent Research for Education and Learning. <http://www.ascd.org/Publications/Books/Overview/Dimensions-of-Learning-Teachers-Manual-2nd-Edition.aspx>
- Mavilidi, M. F., Lubans, D. R., Morgan, P. J., Miller, A., Eather, N., Karayanidis, F., Lonsdale, C., Noetel, M., Shaw, K., & Riley, N. (2019). Integrating physical activity into the primary school curriculum: rationale and study protocol for the “Thinking while Moving in English” cluster randomized controlled trial. *BMC Public Health*, 19(1), 1–12. <https://doi.org/10.1186/s12889-019-6635-2>
- McNamara, S. W. T., Bittner, M., Katz, H., & Hangauer, K. (2022). Addressing Literature Gaps in Online Learning and Adapted Physical Education: A Scoping Review. *Kinesiology Review*, 11(2), 191–196. <https://doi.org/10.1123/kr.2021-0030>
- McNamara, S., Weiner, B., Martinez, D., Ambrosius, H., Griffin, A., Beavers, A., & Heebink, J. (2021). The Impact of COVID-19 on Teachers' Ability to Navigate the Delivery of APE Services. *Journal of Physical Education, Recreation and Dance*, 92(7), 10–15. <https://doi.org/10.1080/07303084.2021.1948466>
- Metzler, M. W. (2017). *Instructional models in physical education* (3rd Ed). Routledge. <https://doi.org/https://doi.org/10.4324/9781315213521>
- Molbaek, M. (2018). Inclusive teaching strategies—dimensions and agendas. *International*

- Journal of Inclusive Education*, 22(10), 1048–1061.
<https://doi.org/10.1080/13603116.2017.1414578>
- Muksin, M., Gazali, N., & D, D. (2019). The Implementation of Physical Education Learning Evaluation on Junior High School Level. *Jurnal Pendidikan Jasmani Dan Olahraga*, 4(2), 198–203. <https://doi.org/10.17509/jpjo.v4i2.12273>
- Mumpuniarti, M., Burhaein, E., & Phytanza, D. T. P. (2021). Phenomenology Study on The Measurement and Availability of Psychosocial Instruments Based on Video Observations in The Unified Sports Program for Children With Intellectual Disabilities in Indonesia. *Sport Science*, 15(1), 48–56. <http://www.sposci.com/PDFS/BR1501/04 CL 07 MM.pdf>
- Murata, N. M. (2019). Teaching Students with Speech and Language Impairments. In *Case Studies in Adapted Physical Education*. Routledge.
- National Council on Disability. (2020). *COVID-19 Letter to HHS OCR*. National Council on Disability. <https://ncd.gov/publications/2020/ncd-COVID-19-letter-hhs-ocr>
- NCPEID. (2020). *Adapted Physical Education National Standards (Third)*. Human Kinetics.
- Ng, K., Klavina, A., Ferreira, J. P., Barrett, U., Pozeriene, J., & Reina, R. (2021). Teachers' preparedness to deliver remote adapted physical education from different European perspectives: Updates to the European Standards in Adapted Physical Activity. *European Journal of Special Needs Education*, 36(1), 98–113. <https://doi.org/10.1080/08856257.2021.1872848>
- Nieman, D. C., & Wentz, L. M. (2019). The compelling link between physical activity and the body's defense system. *Journal of Sport and Health Science*, 8(1), 201–217. <https://doi.org/10.1016/j.jshs.2018.09.009>
- Nurulfa, R., Motto, C. A., Dlis, F., Tangkudung, J., Lubis, J., & Junaidi, J. (2021). Physical Education Survey during the *COVID-19* Pandemic in Eastern Indonesia. *International Journal of Human Movement and Sports Sciences*, 9(4), 668–675. <https://doi.org/10.13189/saj.2021.090410>
- Owusu, A. A., & Cobbold, C. (2020). Factors that Influence Learning Strategy Use among Senior High School Economics Students in Ghana: A Quantitative Approach. *International Journal of Learning, Teaching and Educational Research*, 19(5), 167–1485. <https://doi.org/10.26803/ijlter.19.5.10>
- Pan, C. C., & Mcnamara, S. (2020). The Impact of Adapted Physical Education on Physical Fitness of Students with Intellectual Disabilities: A Three-year Study. *International Journal of Disability, Development and Education*, 00(00), 1–16. <https://doi.org/10.1080/1034912X.2020.1776851>
- Parczewska, T. (2020). Difficult situations and ways of coping with them in the experiences of parents homeschooling their children during the *COVID-19* pandemic in Poland. *Education 3-13*, 0(0), 1–12. <https://doi.org/10.1080/03004279.2020.1812689>
- Permendikbud No 22. (2016). *Tentang Standar Proses Pendidikan Dasar dan Menengah*. https://bsnp-indonesia.org/wp-content/uploads/2009/06/Permendikbud_Tahun2016_Nomor022_Lampiran.pdf
- Phytanza, D. T. P., Burhaein, E., Lourenço, C. C. V., Budiman, B., Yusuf, J., Kinasih, A., Gandasari, M. F., & Taroreh, B. S. (2022). Nutritional Status of Children Aged 6-17 Years: The Condition during the *COVID-19* Pandemic Reviewing Weight Indexed by Height. *Universal Journal of Public Health*, 10(2), 159–167. <https://doi.org/10.13189/ujph.2022.100202>
- Phytanza, D. T. P., Burhaein, E., & Pavlovic, R. (2021). Gross Motor Skills Levels in Children with Autism Spectrum Disorder during the *COVID-19* Pandemic. *International Journal of Human Movement and Sports Sciences*, 9(4), 738–745.

- <https://doi.org/10.13189/saj.2021.090418>
- Phytanza, D. T. P., Purwanta, E., Hermanto, H., Burhaein, E., & Demirci, N. (2021a). Floortime Approach: Can It Improve The Learning Outcomes of Side-Rolling Exercises for Autism Spectrum Disorder Students? *Sport Science*, 15(1), 141–151. <http://www.sposci.com/PDFS/BR1501/19>. Original Article_Phytanza, et al_Sport Science.pdf
- Phytanza, D. T. P., Purwanta, E., Hermanto, H., Burhaein, E., & Lourenço, C. C. V. (2021b). Level Of Physical Activity of Students With Autism Spectrum Disorders during The COVID-19 Pandemic. *Sport Science*, 15(1), 152–157. <http://www.sposci.com/PDFS/BR1501/20>. Original Article_Phytanza, et al_Sport Science.pdf
- Piaget, J. (1962). *Play, dreams and imitation*. Norton.
- Pokhrel, S., & Chhetri, R. (2021). A Literature Review on Impact of COVID-19 Pandemic on Teaching and Learning. *Higher Education for the Future*, 8(1), 133–141. <https://doi.org/10.1177/2347631120983481>
- Powell, C. (2003). The Delphi technique: myths and realities. *Journal of Advanced Nursing*, 41(4), 376–382. <http://www.embase.com/search/results?subaction=viewrecord&from=export&id=L36478234>
- Pramantik, I. A. D. (2021). Optimization of Gobak Sodor Based Neuroscience Learning Game as Character Education in Intellectual Disabilities. *JUMORA: Jurnal Moderasi Olahraga*, 1(02), 63–74. <https://doi.org/10.53863/mor.v1i02.231>
- Pratiwi, F., Kalalo, C. N., & Syamsudin, S. (2020). Pembelajaran Pendidikan Jasmani Adaptif di SD Luar Biasa Negeri Anim-Ha Merauke. *Musamus Journal of Physical Education and Sport (MJPES)*, 3(01), 31–41. <https://doi.org/10.35724/mjpes.v3i01.3132>
- Priestley, M., & Hemingway, L. (2007). Disability and Disaster Recovery. *Journal of Social Work in Disability & Rehabilitation*, 5(3–4), 23–42. https://doi.org/10.1300/J198v05n03_02
- Protic, M., & Válková, H. (2018). The relationship between executive functions and physical activity in children with an intellectual disability. *Journal of Physical Education and Sport*, 18(2), 844–852. <https://doi.org/10.7752/jpes.2018.02125>
- Purwanto, P., Lumintuarso, R., & Burhaein, E. (2021). Impact of Running Techniques through the Sprint Ability in Athletes during the COVID-19 Pandemic. *International Journal of Human Movement and Sports Sciences*, 9(4), 717–724. <https://doi.org/10.13189/saj.2021.090416>
- Putra, Y. M., Purwanto, S., & Burhaein, E. (2021). Effect of Limb Muscle Power Training with Leaps on Athlete's Speed during the COVID-19 Pandemic. *International Journal of Human Movement and Sports Sciences*, 9(3), 461–465. <https://doi.org/10.13189/saj.2021.090310>
- Rahadian, A., Setiawan, E., Jumareng, H., Kastrena, E., & Gani, R. A. (2021). Inklusi Berbasis Blended Learning Bagaimana Efeknya Terhadap Hasil Belajar Pendidikan Jasmani Pada Siswa Disabilitas? *Jurnal MensSana*, 6(2), 154–163.
- Rahmat, A. (2021). Analysis Of Adaptive Physical Education Learning In The COVID-19 Pandemic Period at Ketapang District. *COMPETITOR : Jurnal Pendidikan Kepelatihan Olahraga Analysis Of Adaptive Physical*, 13(1), 103–110.
- Ravalli, S., & Musumeci, G. (2020). Coronavirus Outbreak in Italy : Physiological Benefits of Home-Based Exercise During Pandemic. *Journal of Functional Morphology and Kinesiology*, 5(31), 1–6. <https://doi.org/10.3390/jfmk5020031>

- Rink, J. E. (2014). *Teaching Physical Education for Learning* (7th ed.). McGraw Hill.
- Rowe, G., & Wright, G. (1999). The Delphi technique as a forecasting tool: Issues and analysis. *International Journal of Forecasting*, 15(4), 353–375. [https://doi.org/10.1016/S0169-2070\(99\)00018-7](https://doi.org/10.1016/S0169-2070(99)00018-7)
- Schunk, D. H. (2012). *Learning theories an educational perspective* (Six Ed.). Pearson.
- Schunk, D. H. (2014). *Learning theories: an educational perspective*. Pearson.
- Shrotryia, V. K., & Dhanda, U. (2019). Content Validity of Assessment Instrument for Employee Engagement. *SAGE Open*, 9(1). <https://doi.org/10.1177/2158244018821751>
- Simamora, B. S. (2019). *Buku Guru Aktif Berolahraga Pendidikan Jasmani, Olahraga, dan Kesehatan: SD/MI Kelas V*. Kementerian Pendidikan dan Kebudayaan.
- Simpson, R. J., Campbell, J. P., Gleeson, M., Krüger, K., Nieman, D. C., Pyne, D. B., Turner, E., & Walsh, N. P. (2020). Can exercise affect immune function to increase susceptibility to infection? *Exercise Immunology Review*, 26(1), 8–22.
- Skinner, B. F. (1968). *The technology of teaching*. Appleton-Century-Crofts.
- Snowman, J. (1986). Learning tactics and strategies. In G. D. Phye & T. Andre (Ed.), *Cognitive classroom learning: Understanding, thinking, and problem solving* (pp. 243–275). Academic Press.
- Stratton, S. J. (2020). COVID-19: Not a Simple Public Health Emergency. *Prehospital and Disaster Medicine*, 35(2), 119–119. <https://doi.org/10.1017/S1049023X2000031X>
- Subroto, R., Hikmawati, L., Lestari, T., Surtikanthi, N., Fatmawati, R., Akhsanitaqwm, Y., & Sugini, S. (2021). The Implementation of Adaptive Physical Education Program for Blind Students at SMP Modern Islamic School Surakarta. *IJDS: Indonesian Journal of Disability Studies*, 8(01), 95–104. <https://doi.org/10.21776/ub.ijds.2021.008.01.07>
- Supratiwi, M., Yusuf, M., & Anggarani, F. K. (2021). Mapping the Challenges in Distance Learning for Students with Disabilities during COVID-19 Pandemic: Survey of Special Education Teachers. *International Journal of Pedagogy and Teacher Education*, 5(1), 11. <https://doi.org/10.20961/ijpte.v5i1.45970>
- Sydoruk, I., Grygus, I., Podolianchuk, I., Ostrowska, M., Napierała, M., Hagner-Derengowska, M., Kałużny, K., Muszkieta, R., Zukow, W., Smoleńska, O., & Skalski, D. (2021). Adaptive physical education for children with the down syndrome. *Journal of Physical Education and Sport*, 21(5), 2790–2795. <https://doi.org/10.7752/jpes.2021.s5371>
- Tang, W., & Cui, Y. (2014). Internal Consistency : Do We Really Know What It Is and How to Assess it? *Journal of Psychology and Behavioral Science*, 2(2), 205–220.
- Tarigan, B. (2016). *Pendidikan Jasmani Adaptif* (1st ed.). UPI Press.
- Thorndike, E. L. (1913a). *Educational psychology: Vol. 1. The original nature of man*. Teachers College Press.
- Thorndike, E. L. (1913b). *Educational psychology: Vol. 2. The psychology of learning*. Teachers College Press.
- Thorndike, E. L. (1914). *Educational psychology: Vol. 3. Mental work and fatigue and individual differences and their causes*. Teachers College Press.
- Tomasik, T. (2010). Reliability and validity of the Delphi method in guideline development for family physicians. *Quality in Primary Care*, 18(5), 317–326. <http://www.embase.com/search/results?subaction=viewrecord&from=export&id=L360255859>
- UNESCO. (2008). *Inclusive education: The way of the future*. Conclusions and Recommendations of the 48th Session of the International Conference on Education (ICE), Geneva, 25–28 November 2008. Geneva, Switzerland. http://www.ibe.unesco.org/fileadmin/user_upload/Policy_Dialogue/48th_ICE/General_P

- resentation-48CIE-English.pdf
- UNESCO. (2020). *COVID-19 Impact on Education Data: COVID-19 Education Disruption and Response*. United Nations Educational, Scientific and Cultural Organization.
- UNICEF. (2020a). *All means all*. United Nations Children's Fund. [/www.unicef.org/disabilities/index_65316.html](http://www.unicef.org/disabilities/index_65316.html)
- UNICEF. (2020b). *COVID-19 response: Considerations for Children and Adults with Disabilities What we need to know*: https://www.unicef.org/disabilities/files/COVID-19_response_considerations_for_people_with_disabilities_190320.pdf
- UNICEF. (2020c). *Protecting children and adolescents with disabilities from the pandemic COVID-19 and children with disabilities in Europe and Central Asia*. United Nations Children's Fund. <https://www.unicef.org/eca/protecting-children-andadolescents-disabilities-pandemic>
- United Nations. (2020). *COVID-19 Outbreak and Persons with Disabilities*. UN. <https://www.un.org/development/desa/disabilities/COVID-19.html>
- Uno, H. B. (2012). *Pelaksanaan Pembelajaran*. Bumi Aksara.
- Utama, D. D. P., & Putri, A. R. (2021). Adaptive Physical Education Learning in Special Needs Schools during The Pandemic. *TEGAR: Journal of Teaching Physical Education in Elementary School*, 4(77), 73–80. <https://doi.org/10.17509/tegar.v5i1.38989>
- Utama, F. M., & Hartono, M. (2022). Survei Penerapan Metode Blended Learning dalam Pembelajaran Pendidikan Jasmani Adaptif di Sekolah Dasar Luar Biasa (SDLB) Negeri Kabupaten Purbalingga. *Indonesian Journal for Physical Education and Spor*, 3(3), 159–165.
- van Delden, R. W., Wintels, S. C., van Oorsouw, W. M. W. J., Evers, V., Embregts, P. J. C. M., Heylen, D. K. J., & Reidsma, D. (2020). Alertness, movement, and affective behaviour of people with profound intellectual and multiple disabilities (PIMD) on introduction of a playful interactive product: Can we get your attention? *Journal of Intellectual and Developmental Disability*, 45(1), 66–77. <https://doi.org/10.3109/13668250.2018.1537845>
- Vickerman, P. (2007). Teaching Physical Education to Children with Special Educational Needs and Disabilities. In *Teaching Physical Education to Children with Special Educational Needs and Disabilities*. Routledge. <https://doi.org/10.4324/9781351206150>
- Villani, L., Pastorino, R., Molinari, E., Anelli, F., Ricciardi, W., Graffigna, G., & Boccia, S. (2021). Impact of the *COVID-19* pandemic on psychological well-being of students in an Italian university: a web-based cross-sectional survey. *Globalization and Health*, 17(1), 1–14. <https://doi.org/10.1186/s12992-021-00680-w>
- von Seelen, J., Mikkelsen, A., & Wolderslund, M. (2018). A survey of students' attitudes to implementing physical activity in Danish vocational education schools. *Empirical Research in Vocational Education and Training*, 10(1), 1–12. <https://doi.org/10.1186/s40461-018-0069-4>
- Vygotsky, L. (1962). *Thought and language*. MIT Press.
- Wan, M. (2013). Instructional Strategies. In *Health and Life Skills Guide to Implementation (K–9)* (pp. 67–99). Alberta Learning. <https://education.alberta.ca/media/482311/is.pdf>
- Washington University of Center for Educational Learning. (2012). *5 Dimensions of Teaching and Learning*. University of Washington.
- West, P. W. (2016). Simple random sampling of individual items in the absence of a sampling frame that lists the individuals. *New Zealand Journal of Forestry Science*, 46(1), 1–7. <https://doi.org/10.1186/s40490-016-0071-1>
- WHO. (2018). *Global action plan on physical activity 2018-2030: More active people for a*

- healthier world.* World Health Organization. <http://apps.who.int/iris/bitstream/handle/10665/272722/9789241514187-eng.pdf>
- WHO. (2020a). *Be Active during COVID-19*. <https://www.who.int/news-room/q-a-detail/be-active-during-COVID-19>
- WHO. (2020b). *Disability considerations during the COVID-19 outbreak*. World Health Organization. <https://apps.who.int/iris/bitstream/handle/10665/332015/WHO-2019-nCov-Disability-2020.1-eng.pdf>
- WHO. (2020c). *Nutrition*. <https://www.who.int/health-topics/nutrition>
- WHO. (2020d). *Physical activity: Impact*. https://www.who.int/health-topics/physical-activity#tab=tab_2
- WHO. (2020e). *Physical activity: Overview*. https://www.who.int/health-topics/physical-activity#tab=tab_1
- WHO. (2020f). *Statement on the second meeting of the International Health Regulations (2005) Emergency Committee regarding the outbreak of novel coronavirus (2019-nCoV)*. [https://www.who.int/news-room/detail/30-01-2020-statement-on-the-second-meeting-of-the-international-health-regulations-\(2005\)-emergency-committee-regarding-the-outbreak-of-novel-coronavirus-\(2019-ncov\)](https://www.who.int/news-room/detail/30-01-2020-statement-on-the-second-meeting-of-the-international-health-regulations-(2005)-emergency-committee-regarding-the-outbreak-of-novel-coronavirus-(2019-ncov))
- WHO. (2021a). *Weekly epidemiological update - 16 February 2021*. WHO. https://www.who.int/docs/default-source/coronaviruse/situation-reports/20210216_weekly_epi_update_27.pdf?sfvrsn=94da8979_12&download=true
- WHO. (2021b). *WHO Coronavirus Disease (COVID-19) Dashboard*. WHO. <https://covid19.who.int/>
- WHO & World Bank. (2020). *World report on disability (pp. 205- 232)*. World Health Organization & World Bank. www.who.int/publications-detail/world-report-on-disability
- Wijayanti, D. G. S., Yuwono, C., Irawan, R., & Hanani, E. S. (2022). Analisis Pembelajaran Pendidikan Jasmani Adaptif Selama Masa Pandemi di Sekolah Luar Biasa. *Journal of Sport Coaching and Physical Education*, 7(35), 17–26.
- Winnick, J. P., & Porretta, D. L. (2017). *Adapted physical education and sport* (6th ed.). Human Kinetics. <http://dx.doi.org/10.1080/1357332042000233985>
- Yun, J., & Beamer, J. (2018). Promoting Physical Activity in Adapted Physical Education. *Journal of Physical Education, Recreation & Dance*, 89(4), 7–13. <https://doi.org/10.1080/07303084.2018.1430628>
- Zapata-Cuervo, N., Montes-Guerra, M. I., Shin, H. H., Jeong, M., & Cho, M. H. (2021). Students' Psychological Perceptions Toward *Online Learning Engagement and Outcomes during the COVID-19 Pandemic: A Comparative Analysis of Students in Three Different Countries*. *Journal of Hospitality and Tourism Education*, 00(00), 1–15. <https://doi.org/10.1080/10963758.2021.1907195>
- Zieff, S. G., Lumpkin, A., Guedes, C., & Eguaoje, T. (2009). NASPE Sets the Standard. *Journal of Physical Education, Recreation & Dance*, 80(8), 46–49. <https://doi.org/10.1080/07303084.2009.10598378>