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Digital Pedagogy in Early Childhood Language Development

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Chapter 5
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ABSTRACT

The article discusses the peculiarities of using media in preschool education amidst the war in Ukraine. It analyses scholarly research on using traditional and innovative media in teaching preschool children. The research employs a pre-test and post-test study design. The paper aims to study the features and level of development of cognitive activity in six-year-old children and the ability of educators to use media. It presents the experience of using media in various forms of interaction between educators and children and professional training of educators on the possibilities of using media. The main findings indicate positive outcomes of the experimental intervention on the cognitive development of six-year-old children. The use of various media tools by educators significantly contributed to improvements in all

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REFERENCES

Aksenova, O. P., Anishchuk, A. M., & Artemova, L. V.. (2019). *Child development program from birth to six years*. ICFER-Ukraine.

Barr, R., Kirkorian, H., Radesky, J., Coyne, S., Nichols, D., Blanchfield, O., Rusnak, S., Stockdale, L., Ribner, A., Durnez, J., Epstein, M., Heimann, M., Koch, F. S., Sundqvist, A., Birberg-Thornberg, U., Konrad, C., Slussareff, M., Bus, A., Bellagamba, F., & Fitzpatrick, C. (2020). Beyond Screen Time: A Synergistic Approach to a More Comprehensive Assessment of Family Media Exposure During Early Childhood. *Frontiers in Psychology*, 11, 1283. DOI: 10.3389/fpsyg.2020.01283 PMID: 32754078

Barzilovych, O. M., Hryhorova, Z. V., & Punchak, L. A. (2017). *Fundamentals of media management: A textbook for students of specialty 073 "Management", specialization "Media management and administration in the publishing and printing industry"*. Igor Sikorsky Kyiv Polytechnic Institute.

Choy, Y. N., Lau, E. Y. H., & Wu, D. (2024). Digital parenting and its impact on early childhood development: A scoping review. *Education and Information Technologies*, 29(7), 22147–22187. Advance online publication. DOI: 10.1007/s10639-024-12643-w

Hadders-Algra, M. (2020). Interactive media use and early childhood development. *Jornal de Pediatria*, 96(3), 273–275. DOI: 10.1016/j.jped.2019.05.001 PMID: 31095927

Holovatenko, T. (2024). Rethinking Competences for Initial Language Teacher Training Through Trauma-Informed Lens. In Rahmat, M., & Osborne, A. (Eds.), *Pedagogies of Compassion and Care in Education* (pp. 337–370). IGI Global Scientific Publishing., DOI: 10.4018/979-8-3693-3613-7.ch015

Jake-Schoffman, D. E., Turner-McGrievy, G., & Walsemann, K. M. (2017). Wired: Parent–child relationship quality and recreational media use in a diverse sample of US children and adolescents. *Journal of Children and Media*, 11(3), 347–357. DOI: 10.1080/17482798.2017.1303523

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Kapliy, O. V. (2013). Classification of mass media: constitutional and legal issues. Actual problems of politics, 50, 35-45.

Khrynyk, Y. O. (2023). Preparation of future educators for the formation of media culture in older preschool children (Candidate of Pedagogical Sciences' thesis). Kryvyi Rih, Ukraine.

Lauricella, A. R., Blackwell, C. K., & Wartella, E. (2017). The "New" Technology Environment: The Role of Content and Context on Learning and Development from Mobile Media. In Barr, R., & Linebarger, D. (Eds.), *Media Exposure During Infancy and Early Childhood*. Springer., https://doi-org.ezp2.lib.umn.edu/10.1007/978-3-319-45102-2_1 DOI: 10.1007/978-3-319-45102-2_1

McLuhan, M. (1964). *Understanding media: The extension of man*. McGraw-Hill.

Ministry of Education and Science of Ukraine. (2021). On approval of the Basic Component of Preschool Education (State Standard of Preschool Education), new edition: Order No. 33. https://ezavdnz.mcfr.ua/book?bid=37876

Miyer, T., Palamar, B., Palamar, S., Kotenko, O., Bondarenko, H., Polovina, O., & Rudenko, N. (2024). Trauma-informed training as a means of stabilizing the negative impact of stressful and destructive factors of war on the inner world of future specialists. *Wiadomosci Lekarskie (Warsaw, Poland)*, LXXVII(5), 965–970. DOI: 10.36740/WLek202405114 PMID: 39008584

Naidionova, L. A., & Slyusarevsky, M. M. (Eds.). (2016). The concept of introduction of media education in Ukraine (new edition). Kyiv.

Palamar, S. P., Bielienka, G. V., Ponomarenko, T. O., Kozak, L. V., Nezhyva, L. L., & Voznyak, A. (2021). Formation of readiness of future teachers to use augmented reality in the educational process of preschool and primary education. In AREdu 2021: Augmented Reality in Education 2021: Proceedings of the 4th International Workshop on Augmented Reality in Education (AREdu 2021) (Vol. 2898, pp. 334–342). DOI: 10.31812/123456789/4636

Pentiliuk, M. I. (Ed.). (2015). *Dictionary-reference book on Ukrainian linguodidactics*. Lenvit.

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KEY TERMS AND DEFINITIONS

Media Literacy: The ability to critically evaluate, analyze, and create information provided in various media formats, ensuring safe and effective media use for educational and developmental purposes.

Media Modeling Method: An instructional strategy that uses media tools and platforms to simulate real-life or conceptual scenarios, aiding in cognitive and creative development in young learners.