

Daftar Pustaka

- Abraham, C. & Sheeran, P. (2015). The health belief model *In*: Mark Conner, P. N. (ed.)^(eds.). *Predicting and changing health behavior. Research and practice with social cognition models*. (3). 2. 30-69. 978-0-335-26379-0. New York: McGraw-Hill Education: Open University Press. doi:
- Agbemenu, K., Hannan, M., Kitutu, J., Terry, M. A. & Doswell, W. (2018). "Sex will make your fingers grow thin and then you die": The interplay of culture, myths, and taboos on african immigrant mothers' perceptions of reproductive health education with their daughters aged 10–14 years. *Journal of immigrant and minority health*. 20. 697-704. 1557-1912. doi: 10.1007/s10903-017-0675-4
- Aiken, L. R. (1985). Three coefficients for analyzing the reliability and validity of ratings. *Educational and Psychological Measurement*. 45 (1). 131-142. 0013-1644. doi: 10.1177/0013164485451012.
- Akl, E. A., Kairouz, V. F., Sackett, K. M., Erdley, W. S., Mustafa, R. A., Fiander, M., *et al.* (2013). Educational games for health professionals. *Cochrane Database of Systematic Reviews*. (3). CD006411. 1465-1858. doi: 10.1002/14651858.CD006411.pub4.
- Alencar, N. E. S., Pinto, M. A. O., Leite, N. T. & Silva, C. M. V. d. (2022). Serious games for sex education of adolescents and youth: Integrative literature review. *Ciência & Saúde Coletiva*. 27. 3129-3138. 1413-8123. doi: <https://doi.org/10.1590/1413-81232022278.00632022EN>
- Alrahili, N., Alreefi, M., Alkhonain, I. M., Aldakhilallah, M., Alothaim, J., Alzahrani, A., *et al.* (2023). The prevalence of video game addiction and its relation to anxiety, depression, and attention deficit hyperactivity disorder (adhd) in children and adolescents in saudi arabia: A cross-sectional study. *Cureus*. 15 (8). e42957. 2168-8184 (Print). doi: <https://doi.org/10.7759/cureus.42957>.
- Alvarez, J., Djaouti, D. & Rampnoux, O. (2012). *Introduction au serious game - serious game an introduction (french and english)*. 978-2-917131- 22-0.
- Amamah, S. u., Sa'dijah, C. & Sudirman. (2016). Proses berpikir siswa smp bergaya kognitif field dependent dalam menyelesaikan masalah berdasarkan teori pemrosesan informasi. *Jurnal Pendidikan: Teori,*

Penelitian, dan Pengembangan. 1 (2). 237-245. 2502-471X. doi: 10.17977/jp.v1i2.6128.

Ankara, H. G. & Baykal, D. (2022). The socioeconomic and sociodemographic factors affecting digital gaming addiction among generation z. *Telematics and Informatics Reports.* 8. 100032. 2772-5030. doi: <https://doi.org/10.1016/j.teler.2022.100032>.

Anthony, W. L., Zhu, Y. & Nower, L. (2021). The relationship of interactive technology use for entertainment and school performance and engagement: Evidence from a longitudinal study in a nationally representative sample of middle school students in china. *Computers in Human Behavior.* 122. 106846. 0747-5632. doi: <https://doi.org/10.1016/j.chb.2021.106846>.

APJII. (2022). *Profil internet indonesia 2022* [Online]. Available from: <https://apjii.or.id/content/read/39/559/Laporan-Survei-Profil-Internet-Indonesia-2022>. [Accessed 28 November 2022].

Arifudin, D., Suliswaningsih, S., Pramesti, D. & Heryanti, L. (2022). Implementasi game design document pada perancangan game based learning. *Cog/To Smart Journal.* 8 (2). 385-397. 2477-8079. doi: 10.31154/cogito.v8i2.431.385-397.

Arnab, S., Brown, K., Clarke, S., Dunwell, I., Lim, T., Suttie, N., *et al.* (2013). The development approach of a pedagogically-driven serious game to support relationship and sex education (rse) within a classroom setting. *Computers & Education.* 69. 15-30. 0360-1315. doi: <https://doi.org/10.1016/j.compedu.2013.06.013>.

Azwar, S. (2016). *Sikap manusia teori dan pengukurannya.* (2). 979-8581-59-8. Yogyakarta: Pustaka Pelajar.

Bandura, A. (1977). Self-efficacy: Toward a unifying theory of behavioral change. *Psychological Review.* 84 (2) (0033-295X (Print)). 191–215. . doi: doi:10.1037/0033-295x.84.2.191.

Barra, D., Schuantes, S., Sasso, G. & Colla, G. (2018). Methods for developing mobile apps in health: An integrative review of the literature. *Texto e Contexto Enfermagem.* 26. doi: 10.1590/0104-07072017002260017.

Bekele, D., Deksis, A. & Abera, W. (2022). Parental communication on sexual and reproductive health issues to their adolescents and affecting factors at

- asella town, ethiopia: A community-based, cross-sectional study. *Reproductive Health*. 19. 1-9. doi: 10.1186/s12978-022-01408-8.
- Bert, F., Giacometti, M., Gualano, M. R. & Siliquini, R. (2014). Smartphones and health promotion: A review of the evidence. *Journal of Medical Systems*. 38 (1). 9995. 1573-689X. doi: 10.1007/s10916-013-9995-7.
- BKKBN. (2012). *Bimbingan teknis kesehatan reproduksi dan seksualitas yang komprehensif* [Online]. Jakarta. Available from: <https://unesdoc.unesco.org>. [Accessed 6 October 2022].
- BKKBN. (2018a). *Survei demografi dan kesehatan indonesia 2017: Kesehatan reproduksi remaja* [Online]. Jakarta: BKKBN. Available from: <https://cis.bkkbn.go.id>. [Accessed 16 May 2021].
- BKKBN. (2019a). *Survei kinerja dan akuntabilitas program kkbpk (skap) keluarga* [Online]. Jakarta: BKKBN. Available from: <https://cis.bkkbn.go.id>. [Accessed 16 September 2022].
- BKKBN. (2019b). *Survei kinerja dan akuntabilitas program kkbpk (skap) remaja* [Online]. Jakarta: BKKBN. Available from: <https://cis.bkkbn.go.id>. [Accessed 16 September 2022].
- BKKBN, D. I. Y. (2018b). *Survei demografi dan kesehatan indonesia 2017: Daerah istimewa yogyakarta* [Online]. Yogyakarta: BKKBN DIY. Available from: <https://eprints.latbangdjogja.web.id>. [Accessed 16 September 2022].
- BNN. (2022). *Survei nasional penyalahgunaan narkoba tahun 2021* [Online]. Jakarta: Pusat Penelitian, Data, dan Informasi. Badan Narkotika Nasional Republik Indonesia. Available from: <https://ppid.bnn.go.id>. [Accessed 16 September 2022].
- BPS.Sleman. (2023). *Kabupaten sleman dalam angka 2023* [Online]. Sleman: BPS.Sleman. Available from: <https://slemankab.bps.go.id/id/publication/2023/02/28/d7689b2f3a1709f8c80cec4a/kabupaten-sleman-dalam-angka-2023.html>. [Accessed 8 Juli 2023].
- Breuner, C. C., Mattson, G., Committee On, A., Committee On Psychosocial Aspects Of, C., Family, H., Breuner, C. C., *et al.* (2016). Sexuality education for children and adolescents. *Pediatrics*. 138 (2). e20161348. 0031-4005. doi: 10.1542/peds.2016-1348.

- Brunelli, L., Bravo, G., Romanese, F., Righini, M., Lesa, L., De Odorico, A., *et al.* (2022). Sexual and reproductive health-related knowledge, attitudes and support network of italian adolescents. *Public Health in Practice*. 3. 100253. 2666-5352. doi: <https://doi.org/10.1016/j.puhip.2022.100253>.
- Cazañas, A., de San Miguel, A. & Parra, E. (2017). Estimating sample size for usability testing. *Enfoque UTE*. 8. 172-185. 1390-6542. doi: <https://doi.org/10.29019/enfoqueute.v8n1.126>
- Ceylan, D., Akan-Çelen, F. N., Özkan, S. & Aycan, Z. (2022). Promoting adolescent health: Health literacy, self-efficacy and internet use. *The Turkish Journal of Pediatrics*. 64 (1). 110-121. 2791-6421. doi: <https://doi.org/10.24953/turkjp.2021.1264>.
- Chaniago, A. R., Daningsih, E. & Yokhebed. (2017). Kelayakan leaflet praktikum pembuatan sirup jahe pada submateri peran tumbuhan di bidang ekonomi kelas x sma. *Jurnal Pendidikan dan Pembelajaran Khatulistiwa (JPPK)*. 6 (10). 2715-2723 (online). doi: <http://dx.doi.org/10.26418/jppk.v6i10.22600>
- Chu, S. K. W., Kwan, A. C. M., Reynolds, R., Mellecker, R. R., Tam, F., Lee, G., *et al.* (2015). Promoting sex education among teenagers through an interactive game: Reasons for success and implications. *Games for Health Journal*. 4 (3). 168-174. 2161-783X. doi: 10.1089/g4h.2014.0059.
- Closson, K., Dietrich, J., Lachowsky, N. J., Nkala, B., Cui, Z., Chia, J., *et al.* (2018). Gender differences in prevalence and correlates of high sexual self-efficacy among adolescents in soweto, south africa: Implications for gender-sensitive research and programming. *AIDS Care*. 30 (4). 435-443. 0954-0121. doi: 10.1080/09540121.2017.1391983.
- Creswell, J. W. (2014). *Research design : Qualitative, quantitative, and mixed methods approaches*. (4th ed). 978-1-4522-2610-1 (pbk.). California: SAGE Publications, Inc.
- Creswell, J. W. & Clark, V. L. P. (2018). *Designing and conducting mixed methods research*. (Third Edition). 9781483344379 (Paperback : acid-free paper). California: SAGE Publications, Inc.
- Damayanti, M., Wirakusumah, F. F. & Anwar, R. (2018). Reproductive health game (kepo game) to the self-concept and adolescent reproductive health motivation. *Global Medical and Health Communication*. 6 (3). 162-168. 2460-5441. doi: <https://doi.org/10.29313/gmhc.v6i3.2897>.

- Darville, G., Anderson – Lewis, C., Stellefson, M., Lee, Y.-H., MacInnes, J., Pigg, R. M., *et al.* (2018). Customization of avatars in a hpv digital gaming intervention for college-age males: An experimental study. *Simulation & Gaming*. 49 (5). 515-537. 1046-8781. doi: 10.1177/1046878118799472.
- Daud, K. A. M., Khidzir, N. Z., Ismail, A. R. & Abdullah, F. A. (2018). Validity and reliability of instrument to measure social media skills among small and medium entrepreneurs at pengkalan datu river. *Journal of Development and sustainability*. 7 (3). 1026-1037. 2186-8662. doi: <https://isdsnet.com/ijds-v7n3.html>.
- de Freitas, F. V., Gomes, M. V. & Winkler, I. 2022. Benefits and challenges of virtual-reality-based industrial usability testing and design reviews: A patents landscape and literature review. *Applied Sciences* [Online], 12.
- DeSmet, A., Shegog, R., Van Ryckeghem, D., Crombez, G. & De Bourdeaudhuij, I. (2015). A systematic review and meta-analysis of interventions for sexual health promotion involving serious digital games. *Games for Health Journal*. 4 (2). 78-90. 2161-783X. doi: 10.1089/g4h.2014.0110.
- Desrosiers, A., Betancourt, T., Kergoat, Y., Servilli, C., Say, L. & Kobeissi, L. (2020). A systematic review of sexual and reproductive health interventions for young people in humanitarian and lower-and-middle-income country settings. *BMC Public Health*. 20 (1). 666. 1471-2458. doi: 10.1186/s12889-020-08818-y.
- Deswinda, Machmud, R., Yusrawati & Indrapriyatna, A. S. (2020). The titeer game as an effort to prevent teen pregnancy. *Enfermería Clínica*. 30. 66-70. 1130-8621. doi: <https://doi.org/10.1016/j.enfcli.2020.01.005>.
- Dilebo, M. E., Lebesse, R. T., Ramathuba, D. U. & Makhado, L. (2020). Talking to teenagers regarding sexual and reproductive health: Exploration of parents/guardians' views in limpopo province, south africa. *Research Square*. doi: <https://doi.org/10.21203/rs.2.23754/v1>.
- DinKes.Bantul. (2021). *Profil kesehatan kabupaten bantul tahun 2021* [Online]. Bantul: Dinas Kesehatan Bantul. Available from: <https://dinkes-arsip.bantulkab.go.id>. [Accessed 16 September 2022].
- Dinkes.Kota.Yogyakarta. (2022). *Profil kesehatan kota yogyakarta tahun 2022* [Online]. Kota Yogyakarta: Dinas Kesehatan Kota Yogyakarta. Available from: <https://kesehatan.jogjakota.go.id>. [Accessed 20 September 2022].

- Dinkes.Kulon.Progo. (2020). *Profil kesehatan tahun 2020 (data tahun 2019)* [Online]. Kulon Progo: Dinas Kesehatan Kulon Progo. Available from: <https://dinkes.kulonprogokab.go.id>. [Accessed 16 September 2022].
- Dinkes.Sleman. (2020). *Profil kesehatan kabupaten sleman tahun 2020* [Online]. Sleman: Dinas Kesehatan Sleman. Available from: <https://dinkes.slemankab.go.id>. [Accessed 16 September 2022].
- Disdik.Sleman. (2022). *Peraturan kepala dinas pendidikan kabupaten sleman nomor 02 tahun 2022 tentang petunjuk teknis penerimaan peserta didik baru pada sekolah menengah pertama di kabupaten sleman tahun pelajaran 2022/2023* [Online]. Sleman: Dinas Pendidikan Sleman. Available from: <https://sleman.siap-ppdb.com>. [Accessed 4 October 2022].
- Djaouti, D., Alvarez, J., Jessel, J.-P. & Rampnoux, O. (2011). Origins of serious games.Serious games and edutainment applications. *In: (ed.)^(eds.)*. 25-43. 978-1-4471-2160-2. doi: 10.1007/978-1-4471-2161-9_3.
- Dunne, A., McIntosh, J. & Mallory, D. (2014). Adolescents, sexually transmitted infections, and education using social media: A review of the literature. *The Journal for Nurse Practitioners*. 10 (6). 401-408.e2. 1555-4155. doi: <https://doi.org/10.1016/j.nurpra.2014.03.020>.
- European Expert Group on Sexuality Education, t., & Michielsen, K. . (2016). Sexuality education – what is it? *Sex Education*. 16 (4). 427-431. 1468-1811. doi: 10.1080/14681811.2015.1100599.
- Fiellin, L. E., Hieftje, K. D., Pendergrass, T. M., Kyriakides, T. C., Duncan, L. R., Dziura, J. D., *et al.* (2017). Video game intervention for sexual risk reduction in minority adolescents: Randomized controlled trial. *J Med Internet Res*. 19 (9). e314 (1-13). 1438-8871. doi: 10.2196/jmir.8148.
- Fisher, W. A., Fisher, J. D. & Harman, J. (2003). The information–motivation–behavioral skills model: A general social psychological approach to understanding and promoting health behavior *In: Jerry Suls, K. A. W. (ed.)^(eds.)*. *Social psychological foundations of health and illness*. 4. 82-106. Blackwell Publishing Ltd. doi:
- Flannelly, L. T., Flannelly, K. J. & Jankowski, K. R. B. (2014). Independent, dependent, and other variables in healthcare and chaplaincy research. *Journal of Health Care Chaplaincy*. 20 (4). 161-170. 0885-4726. doi: 10.1080/08854726.2014.959374.

- Future.of.Sex.Education.Initiative. (2020). *National sex education standards: Core content and skills, k-12 (second edition)* [Online]. Available from: <https://advocatesforyouth.org> [Accessed].
- Ghanouni, P., Jarus, T., Zwicker, J. G. & Lucyshyn, J. (2021). An interactive serious game to target perspective taking skills among children with asd: A usability testing. *Behaviour & Information Technology*. 40 (16). 1716-1726. 0144-929X. doi: 10.1080/0144929X.2020.1776770.
- Ghasemi, V., Simbar, M., Fakari, F. R., Naz, M. S. G. & Kiani, Z. (2019). The effect of peer education on health promotion of iranian adolescents: A systematic review. *International Journal of Pediatrics*. 7 (3). 9139-9157. doi: 10.22038/ijp.2018.36143.3153.
- Gultom, S., Hutaaruk, A. F. & Ginting, A. M. (2020). Teaching skills of teacher in increasing student learning interest. *Budapest International Research and Critics Institute (BIRCI-Journal): Humanities and Social Sciences*. 3 (3). 1564-1569. 2615-3076(Online),. doi: www.bircu-journal.com/index.php/birci.
- Guo, J.-L., Hsu, H.-P., Lin, M.-H., Lin, C.-Y. & Huang, C.-M. 2020. Testing the usability of digital educational games for encouraging smoking cessation. *International Journal of Environmental Research and Public Health* [Online], 17.
- Hammady, R. & Arnab, S. (2022). Serious gaming for behaviour change: A systematic review. *Information*. 13 (3). 1-28. 2078-2489. doi: 10.3390/info13030142.
- Haruna, H., Hu, X., Chu, S. K., Mellecker, R. R., Gabriel, G. & Ndekao, P. S. (2018). Improving sexual health education programs for adolescent students through game-based learning and gamification. *International Journal of Environmental Research and Public Health*. 15 (9). 1-26. 1660-4601. doi: 10.3390/ijerph15092027.
- Haruna, H., Okoye, K., Zainuddin, Z., Hu, X., Chu, S. & Hosseini, S. (2021). Gamifying sexual education for adolescents in a low-tech setting: Quasi-experimental design study. *JMIR Serious Games*. 9 (4). e19614. 2291-9279. doi: 10.2196/19614.
- Haruna, H., Zainuddin, Z., Mellecker, R. R., Chu, S. K. W. & Hu, X. (2019). An iterative process for developing digital gamified sexual health education for

- adolescent students in low-tech settings. *Information and Learning Sciences*. 120 (11/12). 723-742. 2398-5348. doi: 10.1108/ILS-07-2019-0066.
- Hastuti, P., Prahesti, Y. & Yunitasari, E. (2021). The effect of reproductive health education on knowledge and attitudes of adolescent about premarital sex in private vocational school surabaya. *Pedio Maternal Nursing Journal*. 7 (2). 101-108. 2656-4629. doi: <http://dx.doi.org/10.20473/pmnj.v7i2.27498>.
- Hemingway, C., Baja, E. S., Dalmacion, G. V., Medina, P. M. B., Guevara, E. G., Sy, T. R., *et al.* (2019). Development of a mobile game to influence behavior determinants of hiv service uptake among key populations in the philippines: User-centered design process. *JMIR Serious Games*. 7 (4). e13695. 2291-9279. doi: 10.2196/13695.
- Hermawan, D. & Kudus, W. A. (2021). Peran orang tua dalam mencegah anak kecanduan bermain game online di era digital. *Jurnal Pendidikan Indonesia*. 2 (05). 778-789. 2746-1920. doi: <https://doi.org/10.59141/japendi.v2i05.171>
- Hoffmann, T. C., Glasziou, P. P., Boutron, I., Milne, R., Perera, R., Moher, D., *et al.* (2014). Better reporting of interventions: Template for intervention description and replication (tidier) checklist and guide. *BMJ : British Medical Journal*. 348. g1687. doi: 10.1136/bmj.g1687.
- Hollier, J. M., Strickland, T. A., Fordis, C. M., Shulman, R. J. & Thompson, D. (2024). Expert review of child and caregiver critiques of a therapeutic guided imagery therapy mobile application targeting disorders of gut–brain interaction in children. *DIGITAL HEALTH*. 10. 20552076241245376. 2055-2076. doi: 10.1177/20552076241245376.
<https://www.interaction-design.org>. [Online]. Available from. [Accessed 20 September 2022].
- Huang, R., Ritzhaupt, A. D., Sommer, M., Zhu, J., Stephen, A., Valle, N., *et al.* (2020). The impact of gamification in educational settings on student learning outcomes: A meta-analysis. *Educational Technology Research and Development*. 68 (4). 1875-1901. 1556-6501. doi: 10.1007/s11423-020-09807-z.
- Hurlock, E. B. (2011). *Psikologi perkembangan : Suatu pendekatan sepanjang rentang kehidupan*. Jakarta: Erlangga.

- Hyzy, M., Bond, R., Mulvenna, M., Bai, L., Dix, A., Leigh, S., *et al.* (2022). System usability scale benchmarking for digital health apps: Meta-analysis. *JMIR Mhealth Uhealth*. 10 (8). e37290. 2291-5222. doi: 10.2196/37290.
- Ichwan, E. Y., Fitriana, S., Angraini, D. H. & Awaliyah, D. N. (2020). The effectiveness of android-based applications to increasing knowledge of adolescents on reproductive health. *Jurnal Ilmu Dan Teknologi Kesehatan*. 7 (2). 137-146. 2338-9109. doi: <https://doi.org/10.32668/jitek.v7i2.253>.
- Ilskens, K., Wrona, K. J., Dockweiler, C. & Fischer, F. (2022). An evidence map on serious games in preventing sexually transmitted infections among adolescents: Systematic review about outcome categories investigated in primary studies. *JMIR Serious Games*. 10 (1). e30526. 2291-9279. doi: 10.2196/30526.
- Indraswari, R., Shaluhiah, Z., Widjanarko, B. & Suryoputro, A. (2021). Factors of mothers' hesitation in discussing reproductive health. *International Journal of Public Health Science*. 10 (4). 801-806. 2252-8806. doi: 10.11591/ijphs.v10i4.21147.
- Infodatin. (2017). *Anti narkoba sedunia* [Online]. Jakarta: Kemenkes RI. Available from: <https://pusdatin.kemkes.go.id>. [Accessed 16 September 2022].
- Irmayanti, N., Lusianti, N., Derman, Y. & Dhei, B. 2022. Perbedaan sikap remaja dalam menghadapi perubahan fisik pada masa pubertas ditinjau dari gender. *Seminar Nasional Dan Call For Paper 2023 Dengan Tema "Penguatan Kapasitas Sumber Daya Manusia Menuju Indonesia Emas 2045"*. Surabaya: PSGESI LPPM UWP.
- Iten, N. & Petko, D. (2016). Learning with serious games: Is fun playing the game a predictor of learning success? *British Journal of Educational Technology*. 47 (1). 151-163. 0007-1013. doi: <https://doi.org/10.1111/bjet.12226>.
- Ivanova, O., Rai, M. & Kemigisha, E. (2018). A systematic review of sexual and reproductive health knowledge, experiences and access to services among refugee, migrant and displaced girls and young women in africa. *International Journal of Environmental Research and Public Health*. 15 (8). 1-12. 1660-4601. doi: 10.3390/ijerph15081583.
- Jadon, G. (2018). Impact of reproductive health education on the knowledge of mid adolescents boys of urban population of haryana. *IP International Journal*

- of Medical Paediatrics and Oncology.* 4 (1). 20-32. doi:
<http://doi.org/10.18231/2455-6793.2018.0007>
- Janighorban, M., Boroumandfar, Z., Pourkazemi, R. & Mostafavi, F. (2022). Barriers to vulnerable adolescent girls' access to sexual and reproductive health. *BMC public health.* 22 (1). 2212. 1471-2458. doi:
<https://doi.org/10.1186/s12889-022-14687-4>.
- Jayasundara, C. C. (2021). Sexual health information seeking behaviour of adolescents and their satisfaction with the information outcome: An application of the theory of motivated information management. *The Journal of Academic Librarianship.* 47 (5). 102383. 0099-1333. doi:
<https://doi.org/10.1016/j.acalib.2021.102383>.
- Johariyah, A. & Mariati, T. (2018). Efektivitas penyuluhan kesehatan reproduksi remaja dengan pemberian modul terhadap perubahan pengetahuan remaja *Jurnal Manajemen Kesehatan Yayasan RS.Dr.Soetomo.* 4 (1). 38-46. 2581-219X-2477-0140. doi:
- Jumroh, Fitriani, A. & Fitriasari, P. (2022). Development of a game-based test instrument using rpg maker mz software on exponential functional materials. *International Journal of Computer Applications Technology and Research.* 12 (1). 1-7. -2319–8656. doi: 10.7753/IJCATR1201.1001.
- Kemhumham, R. I. (2014). *Peraturan pemerintah republik indonesia nomor 61 tahun 2014 tentang kesehatan reproduksi.* Jakarta: Kemenkes RI.
- Kemhumham, R. I. (2019). *Undang-undang republik indonesia nomor 16 tahun 2019 tentang perubahan atas undang-undang nomor 1 tahun 1974 tentang perkawinan.* Jakarta: Kemenkes RI.
- Kemenkes, R. I. (2021). *Profil kesehatan indonesia 2020* [Online]. Jakarta: Kemenkes RI. Available from: <https://pusdatin.kemkes.go.id>. [Accessed 16 September 2022].
- Kemenkes, R. I. (2022). *Profil kesehatan indonesia 2021* [Online]. Jakarta: Kemenkes RI. Available from: <https://www.kemkes.go.id>. [Accessed 16 September 2022].
- Khasanah, A. K. 2015. *Pengembangan dan analisis kualitas berdasarkan iso 9126 aplikasi pendeteksi gaya belajar model vak (visual, auditorial, kinestetik) berbasis web.* Sarjana Pendidikan Skripsi, Universitas Negeri Yogyakarta.

- Kim, H. Y., Park, M. & Lee, E. (2018). A cross-sectional survey of relationships between sexual knowledge, sexual attitudes, and reproductive health behaviour among female university students. *Contemporary Nurse*. 54 (6). 640-650. 1037-6178. doi: 10.1080/10376178.2018.1556104.
- Kruse, C., Betancourt, J., Ortiz, S., Valdes Luna, S. M., Bamrah, I. K. & Segovia, N. (2019). Barriers to the use of mobile health in improving health outcomes in developing countries: Systematic review. *Journal of medical Internet research*. 21 (10). 31593543. e13263. 1438-8871. doi: 10.2196/13263.
- Legiati, T. & Indrayani, D. (2021). Efektivitas pendidikan kesehatan dengan pendekatan model information motivation behavior skill terhadap pencegahan perilaku seksual berisiko remaja. *Jurnal Riset Kesehatan Poltekkes Depkes Bandung*. 13 (2). 389-398. doi: 10.34011/juriskesbdg.v13i2.1912.
- Litbangkes. (2019a). *Riskesdas 2018 nasional* [Online]. Jakarta: Litbangkes. Available from: <https://www.litbang.kemkes.go.id>. [Accessed 18 September 2022].
- Litbangkes. (2019b). *Riskesdas 2018 provinsi di yogyakarta* [Online]. Jakarta: Litbangkes. Available from: <https://www.litbang.kemkes.go.id>. [Accessed 18 September 2022].
- Lu, Y.-L. & Lien, C.-J. (2019). Are they learning or playing? Students' perception traits and their learning self-efficacy in a game-based learning environment. *Journal of Educational Computing Research*. 57 (8). 1879-1909. 0735-6331. doi: 10.1177/0735633118820684.
- Lyimo, W. J., Masinde, J. M. & Chege, K. G. (2017). The influence of sex education on adolescents' involvement in premarital sex and adolescent pregnancies in arusha city, tanzania. *Int J Educ Policy Res Rev*. 4 (2). 113-24. 2360-7076. doi: <https://doi.org/10.15739/IJEPRR.17.013>.
- Mahobia, A. & Choudhari, S. G. (2022). Social security measures of reproductive health among adolescents in india: A narrative review. *Cureus*. 14 (8). doi: <https://doi.org/10.7759/cureus.28546>
- Malaka, I. G., Syarif, S., Arsyad, M. A., Baso, Y. S. & Usman, A. N. (2021). Development of women's reproductive health application as android-based learning media of adolescent knowledge. *International Journal of Health*

- and Medical Sciences*. 4 (2). 182-188. 2632-9433. doi: <https://doi.org/10.31295/ijhms.v4n2.1685>.
- Marlina, H., Jalinus, N. & Rahmat, R. (2018). Pendidikan kesehatan reproduksi bagi remaja (literatur review) *INVOTEK: Jurnal Inovasi Vokasional Dan Teknologi*. 18 (1). 83-90. 1411 – 3414 (p). 2549 – 9815 (e). doi: <https://doi.org/https://doi.org/10.24036/invotek.v18i1.256>.
- Marsiami, A. S. (2021). Pengaruh penerapan game edukasi kesehatan reproduksi (kepo) terhadap keterampilan remaja. *Jurnal Ilmiah Kesehatan*. 10 (2). 77-84. 2089-6484 (p). 2655-8157(e). doi: <https://www.ejournal.umpri.ac.id/index.php/JIK/article/view/1471>.
- Martin, P., Cousin, L., Gottot, S., Bourmaud, A., de La Rochebrochard, E. & Alberti, C. (2020). Participatory interventions for sexual health promotion for adolescents and young adults on the internet: Systematic review. *J Med Internet Res*. 22 (7). e15378. 1438-8871. doi: 10.2196/15378.
- Mason-Jones, A. J., Freeman, M., Lorenc, T., Rawal, T., Bassi, S. & Arora, M. (2023). Can peer-based interventions improve adolescent sexual and reproductive health outcomes? An overview of reviews. *J Adolesc Health*. 73 (6). 975-982. 1879-1972 (Electronic). doi: 10.1016/j.jadohealth.2023.05.035.
- Matthews, J. N., Altman, D. G., Campbell, M. J. & Royston, P. (1990). Analysis of serial measurements in medical research. *British Medical Journal*. 300 (6719). 230-235. doi: 10.1136/bmj.300.6719.230.
- Meldasari, Daningsih, E. & Titin. (2018). Kelayakan leaflet materi keanekaragaman hayati dari buah dadamuk, kariampuk dan menjalin di kabupaten bengkayang. *Jurnal Pendidikan dan Pembelajaran Khatulistiwa (JPPK)*. 7 (11). 2715-2723 (online). doi: <http://dx.doi.org/10.26418/jppk.v7i11.29773>
- Morales, A. A.-O., Espada, J. P., Orgilés, M., Escribano, S., Johnson, B. T. & Lightfoot, M. (2018). Interventions to reduce risk for sexually transmitted infections in adolescents: A meta-analysis of trials, 2008-2016. *PLoS One*. 13(6):e0199421 (1932-6203 (Electronic)). doi: doi: 10.1371/journal.pone.0199421.
- Mundfrom, D. J., Shaw, D. G. & Ke, T. L. (2005). Minimum sample size recommendations for conducting factor analyses. *International Journal of Testing*. 5 (2). 159-168. 1530-5058. doi: 10.1207/s15327574ijt0502_4.

- Nazar, M., Rusman, R., Putri, I. & Puspita, K. (2020). Developing an android-based game for chemistry learners and its usability assessment. *International Journal of Interactive Mobile Technologies (IJIM)*. 14 (15). 111-124. doi: <https://doi.org/10.3991/ijim.v14i15.14351>.
- Nisman, W. A., Parmawati, I., Lailatussa'adah, L. a., Larasati, N. & Krismonita, W. (2022). The effect of the commander application (gender equality-based adolescent reproductive health education) on knowledge, attitudes, and self-efficacy of high school students in yogyakarta city. *Open Access Macedonian Journal of Medical Sciences*. 10 (E). 1476-1482. doi: 10.3889/oamjms.2022.10041.
- Nisman, W. A., Parmawati, I., Setyoharsih, T. W., Gita, R. V. F. & Annisa, R. (2020). How does health reproduction education based on gender equality influence knowledge, attitudes, and self-efficacy in adolescents? *Enfermería Clínica*. 30. 11-15. 1130-8621. doi: <https://doi.org/10.1016/j.enfcli.2020.09.002>.
- Nmadu, A. G., Mohamed, S. & Usman, N. O. (2020). Barriers to adolescents' access and utilisation of reproductive health services in a community in north-western nigeria: A qualitative exploratory study in primary care. *African Journal of Primary Health Care and Family Medicine*. 12 (1). 1-8. 2071-2928. doi: <https://doi.org/10.4102/phcfm.v12i1.2307>.
- Noemí, P.-M. & Máximo, S. H. (2014). Educational games for learning. *Universal Journal of Educational Research*. 2 (3). 230-238. 2332-3205. doi: <https://eric.ed.gov/?id=EJ1053979>.
- Notoatmodjo, S. (2010). *Promosi kesehatan dan ilmu perilaku*. Jakarta: PT Rineka Cipta.
- Notoatmodjo, S. (2011). *Kesehatan masyarakat ilmu dan seni*. Jakarta: Rineka Cipta.
- Novaeni, N., Dharminto, Agusyahbana, F. & Mawarni, A. (2018). Pengembangan aplikasi edukasi kesehatan reproduksi remaja berbasis android untuk pembelajaran biologi di sma pius kabupaten purworejo tahun 2017 *JURNAL KESEHATAN MASYARAKAT (e-Journal)* 6(1). 2356-3346. doi: <http://ejournal3.undip.ac.id/index.php/jkm>.

- Nuclino. (2022). *Game design document template and examples* [Online]. Available from: <https://www.nuclino.com/articles/game-design-document-template>. [Accessed 1 January 2023].
- Ochieng, N. T., Wilson, K., Derrick, C. J. & Mukherjee, N. (2018). The use of focus group discussion methodology: Insights from two decades of application in conservation. *Methods in Ecology and Evolution*. 9 (1). 20-32. 2041-210X. doi: <https://doi.org/10.1111/2041-210X.12860>.
- Othman, A., Shaheen, A., Otoum, M., Aldiqs, M., Hamad, I., Dabobe, M., *et al.* (2020). Parent–child communication about sexual and reproductive health: Perspectives of jordanian and syrian parents. *Sexual and Reproductive Health Matters*. 28 (1). 313-323. doi: 10.1080/26410397.2020.1758444.
- Ozair, M. M., Baharuddin, K. A., Mohamed, S. A., Esa, W. & Yusoff, M. S. B. (2017). Development and validation of the knowledge and clinical reasoning of acute asthma management in emergency department (k-cramed). *Education in Medicine Journal*. 9 (2). 1-17. 2180-1932. doi: 10.21315/eimj2017.9.2.1
- Parmar, H. & Singh, U. S. (2021). Impact of health education on knowledge regarding reproductive and sexual health among adolescent girls of anand, gujarat. *National Journal of Community Medicine*. 12 (07). 189-193. 2229-6816. doi: 10.5455/njcm.20200708065926.
- Patchen, L., Ellis, L., Ma, T. X., Ott, C., Chang, K. H. K., Araya, B., *et al.* (2020). Engaging african american youth in the development of a serious mobile game for sexual health education: Mixed methods study. *JMIR Serious Games*. 8 (1). e16254. 2291-9279. doi: 10.2196/16254.
- Pemayun, C. I. M., Sariyani, M. D. & Utami, L. N. (2019). Gambaran pengetahuan remaja tentang kesehatan reproduksi di smp negeri 3 selemadeg timur tahun 2019. *JURNAL MEDIKA USADA*. 2 (2). 68-74. 2614-5685. doi: DOI: <https://doi.org/10.54107/medikausada.v2i2>
- Perbup.Gunung.Kidul. (2020). *Peraturan bupati gunungkidul nomor 2 tahun 2020 tentang rencana aksi daerah penanggulangan lima prioritas masalah kesehatan kabupaten gunungkidul* [Online]. Gunungkidul: Pemerintah Daerah Gunungkidul. Available from: <https://peraturan.bpk.go.id>. [Accessed 16 September 2022].

- Permenkes, R. I. (2014). *Permenkes republik indonesia nomor 25 tahun 2014 tentang upaya kesehatan anak*. Jakarta: Kemenkes RI.
- Peskin, M. F., Shegog, R., Markham, C. M., Thiel, M., Baumler, E. R., Addy, R. C., et al. (2015). Efficacy of it's your game-tech: A computer-based sexual health education program for middle school youth. *Journal of Adolescent Health*. 56 (5). 515-521. 1879-1972 (Electronic). doi: <https://doi.org/10.1016/j.jadohealth.2015.01.001>.
- Petri, G. & von Wangenheim, C. G. (2016). How to evaluate educational games: A systematic. *Journal of Universal Computer Science*. 22 (7). 992-1021. doi: <https://doi.org/10.3217/jucs-022-07-0992>.
- Polit, D. F., Beck, C. T. & Owen, S. V. (2007). Is the cvi an acceptable indicator of content validity? Appraisal and recommendations. *Research in Nursing & Health*. 30 (4). 459-467. 0160-6891. doi: <https://doi.org/10.1002/nur.20199>.
- Priowibowo, B., Effendy, V. & Junaedi, D. Designing user interface using user-centered design method on reproductive health learning for visual impairment teenagers. *IOP Conference Series: Materials Science and Engineering* 2020. Honolulu. IOP Publishing. 022092.
- Putnam, C., Puthenmadom, M., Cuerdo, M. A., Wang, W. & Paul, N. Adaptation of the system usability scale for user testing with children. *CHI conference on human factors in computing systems*. 2020. 1-7.
- Rahayu, A., Noor, M. S., Yulidasari, F., Rahman, F. & Putri, A. O. (2017). *Buku ajar kesehatan reproduksi remaja dan lansia*. 978-602-6606-23-5. Surabaya: Airlangga University Press.
- Rahmawati, S., Setyowati, S., Budiati, T. & Rachmawati, I. N. (2023). Faktor-faktor yang memengaruhi kesehatan reproduksi remaja. *Journal of Telenursing (JOTING)*. 5 (2). 2632-2640. 2684-8988. doi: <https://doi.org/10.31539/joting.v5i2.7713>
- Raissa, A., Sukendar, A. Y. S. & Michae, T. (2020). Sexual education (sex-ed) since as representative act number 36 of 2009 concerning health towards reproductive health problems. *Surakarta Law and Society Journal*. 2 (2). 77-85. 2621-5365. doi: <http://dx.doi.org/10.32019/slsj.v2i2.346>.
- Ramadan, R. & Widyani, Y. Game development life cycle guidelines. 2013 *International Conference on Advanced Computer Science and Information Systems (ICACSIS)*. 28-29 Sept. 2013. IEEE. 95-100.

- Rani, N. & Devi, P. A. (2021). A quasi experimental study to assess the effectiveness of structured teaching programme on knowledge and attitude regarding reproductive health among adolescent girls in selected senior secondary schools, barwala (hisar). *International Journal of Science and Research*. 10 (9). 1410-1414. 2319-7064. doi: 10.21275/SR21920120830.
- Reser, A. R., Bearzi, P. S. S. d., Matos, J. C. d., Marchi, R. J. D. & Martins, A. B. (2024). Immersive rpg elderly health: A new possibility for constructing health learning? *Revista Brasileira de Geriatria e Gerontologia*. 27. e230214. 1809-9823. doi: <http://dx.doi.org/10.1590/1981-22562024027.230214.en>.
- Riyanto, A. D. (2022). *Digital 2022 indonesia* [Online]. Available from: <https://andi.link/hootsuite-we-are-social-indonesian-digital-report-2022>. [Accessed 20 September 2022].
- Rohles, B., Backes, S., Fischbach, A., Amadiou, F. & Koenig, V. (2022). Creating positive learning experiences with technology: A field study on the effects of user experience for digital concept mapping. *Heliyon*. 8 (4). e09246. 2405-8440. doi: <https://doi.org/10.1016/j.heliyon.2022.e09246>.
- Romli, R., Mohamad, E. A.-O., Abd Rahman, R. A.-O., Chew, K. A.-O. X., Mohd Hashim, S. & Mohammed Nawi, A. A.-O. (2022). Translation, cross-cultural adaptation, and validation of the malay version of the protection motivation theory scale questionnaire for pap smear screening. . *International Journal Of Environmental Research And Public Health* 19 (11). 1660-4601 (Electronic). doi: <https://doi.org/10.3390/ijerph19116858>.
- Safira, F. A., Rohayati, R., Amalia, A. L., Fatmawati, F., Aeni, F., Safitri, A., et al. (2022). Penerapan aplikasi berbasis sms, game dan android dalam meningkatkan pengetahuan kesehatan reproduksi remaja: Literatur review. *Jurnal Manajemen Informasi Kesehatan Indonesia*. 10 (1). 78-86. 2337-6007. doi: <https://doi.org/10.33560/jmiki.v10i1.395>
- Safitri, T. (2021). Pendidikan kesehatan reproduksi dan seksual yang komprehensif membentuk remaja berkualitas. . *CENDEKIA : Jurnal Ilmu Pengetahuan*. 1 (1). 60–68. doi:
- Santrock, J. W. (2003). *Adolescence perkembangan remaja. Alih bahasa shinto b. Adelar dan sherly saragih* (6). Jakarta: Erlangga.

- Sapnas, K. G. & Zeller, R. A. (2002). Minimizing sample size when using exploratory factor analysis for measurement. *Journal of nursing measurement*. 10 (2). 12619534. 135-154. 1061-3749. doi: 10.1891/jnum.10.2.135.52552.
- Sardi, L., Idri, A. & Fernández-Alemán, J. L. (2017). A systematic review of gamification in e-health. *Journal of Biomedical Informatics*. 71. 31-48. 1532-0464. doi: <https://doi.org/10.1016/j.jbi.2017.05.011>.
- Sariyani, M. D., Ariyanti, K. S., Winangsih, R. & Pemayun, C. I. M. (2020). Edukasi kesehatan reproduksi remaja pada masa pandemi covid-19 di kabupaten tabanan tahun 2020 *Indonesian Journal of Community Empowerment. Faculty of Health Sciences, Universitas Ngudi Waluyo*. 2 (2). 2657-1161 (cetak). 2657-117X (online). doi: <http://jurnal.unw.ac.id/index.php/IJCE/article/view/754>.
- Sarwono, S. W. (2016). *Psikologi remaja*. (1. Cetakan 18). 979-421-197-4 Jakarta: Rajawali Pers.
- Schulz, T., Fuglerud, K., Arfwedson, H. & Busch, M. (2014). *A case study for universal design in the internet of things. Assistive Technology Research Series*. 35. Pages. Online: IOS Press. doi: 10.3233/978-1-61499-403-9-45. Available from: <https://ebooks.iospress.nl/volumearticle/36451>.
- Setiyorini, A., Nisman, W. A. & Sitaresmi, M. N. (2024a). Digital game interventions to improve adolescent reproductive health knowledge, attitudes, and self-efficacy: A systematic review and meta-analysis. *American Journal of Sexuality Education*. 1-31. 1554-6128. doi: 10.1080/15546128.2024.2358223.
- Setiyorini, A., Sitaresmi, M. N. & Nisman, W. A. (2024b). Development and validation of adolescent sexual and reproductive health – knowledge, attitude, and self-efficacy questionnaires (asrh-kaseq). *International Journal of Adolescent Medicine and Health*. 36 (4). 351-358. doi: 10.1515/ijamh-2024-0073.
- Sharfina, Z. & Santoso, H. B. 2016. An indonesian adaptation of the system usability scale (sus). *2016 International Conference on Advanced Computer Science and Information Systems (ICACSIS)*. 15-16 October 2016. Malang. Indonesia: Institute of Electrical and Electronics Engineers Inc. 145-148.

- Siramaneerat, I., Agushyvana, F., Nugraha, A. & Mungkhamanee, S. (2017). Knowledge, attitude, and behavior toward premarital sex among adolescents in indonesia. *J Health Res* vol. 31 (6). 447-453. doi: 10.14456/jhr.2017.55.
- Snelling, A. (2014). *Introduction to health promotion*. 978-1-118-45529-6. San Francisco: Jossey-Bass.
- Solehati, T., Kosasih, C. & Rahmat, A. (2018). Hubungan sosiodemografi orang tua dengan sikap remaja tentang kesehatan reproduksi remaja. *Jurnal Kesehatan Poltekkes Ternate*. 11 (1). 21-26. doi: 10.32763/juke.v11i1.58.
- Sukendar, M. U. (2017). *Psikologi komunikasi: Teori dan praktik*. 978-602-453-397-7. Yogyakarta: Budi Utama.
- Sukmawati, I., Afdal, A., Fikri, M., Hariko, R., Zikra, Z., Suri, G. D., et al. (2023). Improving research, and practice to reproductive health understanding: An indonesian perspective for sexual education. *Universal Journal of Public Health*. 11 (4). 441-447. doi: 10.13189/ujph.2023.110408.
- Sun, W. H., Miu, H. Y. H., Wong, C. K. H., Tucker, J. D. & Wong, W. C. W. (2018). Assessing participation and effectiveness of the peer-led approach in youth sexual health education: Systematic review and meta-analysis in more developed countries. *The Journal of Sex Research*. 55 (1). 31-44. 0022-4499. doi: 10.1080/00224499.2016.1247779.
- Sunkara, J. (2021). Sexual health misinformation and potential interventions among youth on social media. *The Cardinal Edge*. 1 (1). 16. 2767-5300. doi: 10.18297/tce/vol1/iss1/16
- Susanti, D. & Doni, A. W. (2021). Implementation of sexual education programs for adolescents in indonesia: Narrative review. *Sanitas*. 12 (1). 36-52. 2615-8647. doi: 10.36525/sanitas.2021.4.
- Suwanto, I. (2021). How information helps on increasing students' understanding of adolescent reproductive health at school. *Journal of Education, Teaching and Learning*. 6 (2). 209-213. 2477-5924. doi:
- Suwarno, S., Shaluhiah, Z. & Prabamurti, P. N. (2017). Media efektif untuk pendidikan kesehatan organ genital bagi siswi sekolah menengah pertama. *Jurnal Ilmu Kesehatan Masyarakat*. 8 (3). 192-199. 2548-7949. doi: <https://doi.org/10.26553/jikm.2017.8.3.192-199>.

- Syafitriani, D., Trihandini, I. & Irfandi, J. (2022). Determinan of premarital sex behavior adolescents (15-24 years) in indonesia (analysis idhs 2017). *Jurnal Kesehatan Komunitas*. 8 (2). 205-218. doi: 10.25311/keskom.Vol8.Iss2.1162.
- Teadt, S., Burns, J. C., Montgomery, T. M. & Darbes, L. (2020). African american adolescents and young adults, new media, and sexual health: Scoping review. *JMIR Mhealth Uhealth*. 8 (10). e19459. 2291-5222. doi: 10.2196/19459.
- Tebb, K. P., Rodriguez, F., Pollack, L. M., Adams, S., Rico, R., Renteria, R., *et al.* (2021). Improving contraceptive use among latina adolescents: A cluster-randomized controlled trial evaluating an mhealth application, health-e you/salud itu. *Contraception*. 104 (3). 246-253. 0010-7824. doi: <https://doi.org/10.1016/j.contraception.2021.03.004>.
- Tuah, N. M., Yoag, A. & Ahmedy, F. 2021. Mydiabetes—the gamified application for diabetes self-management and care. *Computers* [Online], 10.
- UNESCO. (2015). *Regional module for teacher training on comprehensive sexuality education for east and southern africa* [Online]. Available from: <https://healtheducationresources.unesco.org>. [Accessed 16 September 2022].
- UNESCO. (2018). *International technical guidance on sexuality education. An evidence-informed approach* [Online]. Available from: <https://www.unfpa.org/publications/international-technical-guidance-sexuality-education>. [Accessed 16 September 2022].
- UNFPA. (2022). *Annual report 2021. Leaving no one behind in a global crisis through universal access to sexual and reproductive health services and information. August 2022. Unfpa indonesia* [Online]. Available from: <https://indonesia.unfpa.org>. [Accessed 16 September 2022].
- Vakilian, K., Abbas Mousavi, S., Keramat, A. & Chaman, R. (2018). Knowledge, attitude, self-efficacy and estimation of frequency of condom use among iranian students based on a crosswise model. *International Journal of Adolescent Medicine and Health*. 30 (1). doi: doi:10.1515/ijamh-2016-0010.
- von Kotzebue, L., Zumbach, J. & Brandlmayr, A. (2022). Digital escape rooms as game-based learning environments: A study in sex education. *Multimodal*

- Technologies and Interaction*. 6 (2). 1-13. 2414-4088. doi: 10.3390/mti6020008.
- Vusić, D., Bernik, A. & Geček, R. (2018). Instructional design in game based learning and applications used in educational systems. *Tehnički glasnik*. 12 (1). 11-17. 1846-6168. doi: <https://doi.org/10.31803/tg-20180312141348>.
- Wadham, E., Green, C., Debattista, J., Somerset, S. & Sav, A. (2019). New digital media interventions for sexual health promotion among young people: A systematic review. *Sexual Health*. 16 (2). 101-123. doi: <https://doi.org/10.1071/SH18127>.
- Walker, R., Leahy, D., Welch, R., Drakeley, S. & Boyle, J. (2022). Educating young people to graduate school with the ability to protect their sexual and reproductive health: A mixed-methods study. *Sex Education*. 22 (4). 393-408. 1468-1811. doi: 10.1080/14681811.2021.1946388.
- Wardiati, W., Septiani, R., Agustina, A., Ariscasari, P., Arlianti, N. & Mairani, T. (2023). Reproductive health literacy of adolescents at public islamic school: A cross-sectional study in indonesia. *Al-Sihah: The Public Health Science Journal*. 15 (1). 12-22. doi: 10.24252/al-sihah.v15i1.33133.
- Wardoyo, H. (2021). *Siapkan dirimu menjadi ayah dan bunda yang sehat*. Ditkespro. 2021 [Online]. Available from: <https://cis.bkkbn.go.id>. [Accessed 16 May 2021].
- Whitehead, D. (2018). Exploring health promotion and health education in nursing. *Nurs Stand*. 33 (8). 38-44. doi: 10.7748/ns.2018.e11220
- WHO. (2021). *Rapid assessment of the implementation of adolescent health programmes in countries of south-east asia*. New delhi: World health organization, regional office for south-east asia; 2021. Licence: Cc by-nc-sa 3.0 igo., 978-92-9022-863-9.
- WHO. (2022a). *Adolescent health* [Online]. Available from: <https://www.who.int/southeastasia/health-topics/adolescent-health>. [Accessed 16 September 2022].
- WHO. (2022b). *Adolescent population* [Online]. Available from: [https://platform.who.int/data/maternal-newborn-child-adolescent-ageing/indicator-explorer-new/mca/adolescent-population-\(thousands\)](https://platform.who.int/data/maternal-newborn-child-adolescent-ageing/indicator-explorer-new/mca/adolescent-population-(thousands)). [Accessed 16 September 2022].

- WHO. (2022c). *World health statistic 2022* [Online]. Available from: <https://www.who.int/data/gho/publications/world-health-statistics>. [Accessed 16 September 2022].
- Widman, L., Kamke, K., Evans, R., Stewart, J. L., Choukas-Bradley, S. & Golin, C. E. (2020). Feasibility, acceptability, and preliminary efficacy of a brief online sexual health program for adolescents. *Journal of sex research*. 57 (2). 31287336. 145-154. 1559-8519-0022-4499. doi: 10.1080/00224499.2019.1630800.
- Widyastuti. (2012). *Membangun game edukasi*. Yogyakarta: Andioffset.
- Winskell, K., Sabben, G., Akelo, V., Ondeng'e, K., Obong'o, C., Stephenson, R., *et al.* (2018). A smartphone game-based intervention (tumaini) to prevent hiv among young africans: Pilot randomized controlled trial. *JMIR Mhealth Uhealth*. 6 (8). e10482. 2291-5222. doi: 10.2196/10482.
- Wu, L., Sekelsky, B., Peterson, M., Gampp, T., Delgado, C. & Chen, K. B. (2022). Immersive virtual environment for scale cognition and learning: Expert-based evaluation for balancing usability versus cognitive theories. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. 66 (1). 1972-1976. 1071-1813. doi: 10.1177/1071181322661094.
- Yakubu, I., Garmaroudi, G., Sadeghi, R., Tol, A., Yekaninejad, M. S. & Yidana, A. (2019). Assessing the impact of an educational intervention program on sexual abstinence based on the health belief model amongst adolescent girls in northern ghana, a cluster randomised control trial. *Reproductive Health*. 16 (1). 124. 1742-4755. doi: 10.1186/s12978-019-0784-8.
- Yousaf, S. (2015). Parenting style and self-efficacy among adolescents. *Research on Humanities and Social Sciences*. 5 (3). 25-28. 2225-0484 (Online). doi: <https://core.ac.uk/download/pdf/234674367.pdf>.
- Yusuf, L. N. S. (2017). *Pikologi perkembangan anak dan remaja*. (Cetakan ke-18). Bandung: PT Remaja Rosdakarya.
- Zhonggen, Y. (2019). A meta-analysis of use of serious games in education over a decade. *International Journal of Computer Games Technology*. 2019. 4797032. 1687-7047. doi: 10.1155/2019/4797032.
- Zhou, C. A.-O., Occa, A. A.-O. X., Kim, S. & Morgan, S. A.-O. (2019). A meta-analysis of narrative game-based interventions for promoting healthy

behaviors. *Journal of Health Communication*. 25(1) (1087-0415 (Electronic)). 54–65. doi: 10.1080/10810730.2019.1701586

Zingora, T., Stark, T. H. & Flache, A. (2019). Who is most influential? Adolescents' intergroup attitudes and peer influence within a social network. *Group Processes & Intergroup Relations*. 23 (5). 684-709. 1368-4302. doi: 10.1177/1368430219869460.