

DAFTAR PUSTAKA

- Abaya, R., Jones, L., & Zorc, J. J. (2018). Dexamethasone compared to prednisone for the treatment of children with acute asthma exacerbations. *Pediatric Emergency Care*, 34(1), 53–58.
- Abbasi, A., Ghezeljeh, T. N., Farahani, M. A., & Naderi, N. (2018). Effects of the self-management education program using the multi-method approach and multimedia on the quality of life of patients with chronic heart failure: A non-randomized controlled clinical trial. *Contemporary Nurse*, 54(4–5), 409–420. <https://doi.org/10.1080/10376178.2018.1538705>
- Al-Binali, A. M., Mahfouz, A. A., Al-Fifi, S., Naser, S. M., & Al-Gelban, K. S. (2010). Asthma knowledge and behaviours among mothers of asthmatic children in Aseer, south-west Saudi Arabia. *Eastern Mediterranean Health Journal = La Revue De Sante De La Mediterranee Orientale = Al-Majallah Al-Sihhiyah Li-Sharg Al-Mutawassit*, 16(11), 1153–1158.
- Allen, R. M., Abdulwadud, O. A., Jones, M. P., Abramson, M., & Walters, H. (2000). A reliable and valid asthma general knowledge questionnaire useful in the training of asthma educators. *Patient Education and Counseling*, 39(2), 237–242. [https://doi.org/10.1016/S0738-3991\(99\)00051-8](https://doi.org/10.1016/S0738-3991(99)00051-8)
- Allen, R. M., & Jones, M. P. (1998). The Validity and Reliability of an Asthma Knowledge Questionnaire Used in the Evaluation of a Group Asthma Education Self-Management Program for Adults with Asthma. *Journal of Asthma*, 35(7), 537–545. <https://doi.org/10.3109/02770909809048956>
- Andayani, N., & Waladi, Z. (2014). Hubungan Tingkat Pengetahuan Pasien Asma dengan Tingkat Kontrol Asma di Poliklinik Paru RSUD dr. Zainoel Abidin Banda Aceh. *Jurnal Kedokteran Syiah Kuala*, 14(3), 139–145.
- Atmoko, W., Faisal, H. K. P., Bobian, E. T., & Adisworo, M. W. (n.d.). *Prevalens Asma Tidak Terkontrol dan Faktor-Faktor yang Berhubungan dengan Tingkat Kontrol Asma di Poliklinik Asma Rumah Sakit Persahabatan*, Jakarta. 8.
- Barczyk, A., Maskey-Warzechowska, M., Górska, K., Barczyk, M., Kuziemski, K., Śliwiński, P., Batura-Gabryel, H., Mróz, R., Kania, A., & Obojski, A. (2019). Asthma-COPD overlap—A discordance between patient populations defined by different diagnostic criteria. *The Journal of Allergy and Clinical Immunology: In Practice*, 7(7), 2326–2336.
- Barra, Daniela Couto Carvalho, Paim, Sibele Maria Schuantes, Sasso, Grace Teresinha Marcon Dal, & Colla, Gabriela Winter. (2017). MÉTODOS PARA DESENVOLVIMENTO DE APLICATIVOS MÓVEIS EM SAÚDE: REVISÃO INTEGRATIVA DA LITERATURA. Texto & Contexto - Enfermagem, 26(4), e2260017. Epub January 08, 2018. <https://doi.org/10.1590/0104-07072017002260017>
- Barnes, P. J. (2016). Asthma-COPD overlap. *Chest*, 149(1), 7–8.
- Bashi, Nazli et al. “Digital health interventions for chronic diseases: a scoping review of evaluation frameworks.” *BMJ health & care informatics* vol. 27,1 (2020): e100066. doi:10.1136/bmjhci-2019-100066



- Boulet, L.-P., Reddel, H. K., Bateman, E., Pedersen, S., FitzGerald, J. M., & O'Byrne, P. M. (2019). The global initiative for asthma (GINA): 25 years later. *European Respiratory Journal*, 54(2), 1900598.
- Boulet, L.-P., Reddel, H. K., Brightling, C., & Brusselle, G. (2020). *GINA fosters World Asthma Day 2020 to prevent asthma deaths*. American Physiological Society Bethesda, MD.
- Burbank, A. J., Lewis, S. D., Hewes, M., Schellhase, D. E., Rettiganti, M., Hall-Barrow, J., Bylander, L. A., Brown, R. H., & Perry, T. T. (2015). Mobile-based asthma action plans for adolescents. *The Journal of Asthma: Official Journal of the Association for the Care of Asthma*, 52(6), 583–586. <https://doi.org/10.3109/02770903.2014.995307>
- Carpenter, D. M., Jurdi, R., Roberts, C. A., Hernandez, M., Horne, R., & Chan, A. (2018). A review of portable electronic spirometers: Implications for asthma self-management. *Current Allergy and Asthma Reports*, 18(10), 53.
- Christensen, H. M., Henriksen, D. P., & Madsen, H. (2019). What do patients want in an asthma app? *European Respiratory Journal*, 54(suppl 63). <https://doi.org/10.1183/13993003.congress-2019.OA270>
- Cook, K. A., Modena, B. D., & Simon, R. A. (2016). Improvement in Asthma Control Using a Minimally Burdensome and Proactive Smartphone Application. *The Journal of Allergy and Clinical Immunology. In Practice*, 4(4), 730-737.e1. <https://doi.org/10.1016/j.jaip.2016.03.005>
- Dallimore, R.-K., Asinas-Tan, M. L., Chan, D., Hussain, S., Willett, C., & Zainuldin, R. (2017). A randomised, double-blinded clinical study on the efficacy of multimedia presentation using an iPad for patient education of postoperative hip surgery patients in a public hospital in Singapore. *Singapore Medical Journal*, 58(9), 562–568. <https://doi.org/10.11622/smedj.2016084>
- Dharmage, S. C., Perret, J., & Custovic, A. (2019). Epidemiology of asthma in children and adults. *Frontiers in Pediatrics*, 7, 246.
- Djukanovic, R., Adcock, I. M., Anderson, G., Bel, E. H., Canonica, G. W., Cao, H., Chung, K. F., Davies, D. E., Genton, C., & Gibson-Latimer, T. (2018). *The severe heterogeneous asthma research collaboration, patient-centred (SHARP) ERS clinical research collaboration: A new dawn in asthma research*. Eur Respiratory Soc.
- Duncan, C. L., Hogan, M. B., Tien, K. J., Graves, M. M., Chorney, J. M., Zettler, M. D., Koven, L., Wilson, N. W., Dinakar, C., & Portnoy, J. (2013). Efficacy of a Parent–Youth Teamwork Intervention to Promote Adherence in Pediatric Asthma. *Journal of Pediatric Psychology*, 38(6), 617–628. <https://doi.org/10.1093/jpepsy/jss123>
- Erlina, L., Wibisono, D. S., Dwidasmara, S. D. K., & Tursini, Y. (2018). HUBUNGAN KECEMASAN DENGAN KONTROL ASMA PADA PASIEN ASMA BRONCHIAL. *Jurnal Riset Kesehatan Poltekkes Depkes Bandung*, 12(2), 388-394. Retrieved from <https://www.juriskes.com/index.php/jrk/article/view/1777>
- Ernsting, C., Dombrowski, S. U., Oedekoven, M., LO, J., Kanzler, M., Kuhlmeijer, A., & Gellert, P. (2017). Using smartphones and health apps to change and

- manage health behaviors: A population-based survey. *Journal of Medical Internet Research*, 19(4), e101.
- Expert Panel Report 3: Guidelines for the Diagnosis and Management of Asthma*. (2007). 440.
- Farooqui, N., Phillips, G., Barrett, C., & Stukus, D. (2015). Acceptability of an interactive asthma management mobile health application for children and adolescents. *Annals of Allergy, Asthma & Immunology: Official Publication of the American College of Allergy, Asthma, & Immunology*, 114(6), 527–529. <https://doi.org/10.1016/j.anai.2015.03.006>
- Farzandipour, M., Nabovati, E., Sharif, R., Arani, M. H., & Anvari, S. (2017). Patient Self-Management of Asthma Using Mobile Health Applications: A Systematic Review of the Functionalities and Effects. *Applied Clinical Informatics*, 8(4), 1068–1081. <https://doi.org/10.4338/ACI-2017-07-R-0116>
- Gatheral, T. L., Rushton, A., Evans, D. J., Mulvaney, C. A., Halcovitch, N. R., Whiteley, G., Eccles, F. J., & Spencer, S. (2017). Personalised asthma action plans for adults with asthma. *Cochrane Database of Systematic Reviews*, 4.
- Geryk, L. L., Roberts, C. A., Sage, A. J., Coyne-Beasley, T., Sleath, B. L., & Carpenter, D. M. (2016). Parent and Clinician Preferences for an Asthma App to Promote Adolescent Self-Management: A Formative Study. *JMIR Research Protocols*, 5(4), e229. <https://doi.org/10.2196/resprot.5932>
- Ghozali, A. M. (2020). A Systematic Content Review of Google Android OS-Based Asthma Self-Management Apps in Indonesia. *Systematic Reviews in Pharmacy*, 11(12), 10.
- GINA-2020-full-report_final_wms.pdf*. (n.d.). Retrieved September 10, 2020, from https://ginasthma.org/wp-content/uploads/2020/04/GINA-2020-full-report_final_wms.pdf
- Goldfarb, J., Kayssi, A., Devon, K., Rossos, P. G., & Cil, T. D. (2016). Smartphones and patient care: Exploring the use of text-based messaging for patient-related communication. *Surgical Innovation*, 23(3), 305–308.
- Guerron, A. D., Ortega, C. B., Lee, H.-J., Davalos, G., Ingram, J., & Portenier, D. (2019). Asthma medication usage is significantly reduced following bariatric surgery. *Surgical Endoscopy*, 33(6), 1967–1975.
- Guidelines for the Diagnosis and Management of Asthma (EPR-3) | NHLBI, NIH*. (n.d.). Retrieved September 10, 2020, from <https://www.nhlbi.nih.gov/health-topics/guidelines-for-diagnosis-management-of-asthma>
- Hetlevik, Ø., Melbye, H., & Gjesdal, S. (2016). GP utilisation by education level among adults with COPD or asthma: A cross-sectional register-based study. *NPJ Primary Care Respiratory Medicine*, 26(1), 1–7.
- Horner, S. D., Brown, A., Brown, S. A., & Rew, D. L. (2016). Enhancing asthma self-management in rural school-aged children: A randomized controlled trial. *The Journal of Rural Health*, 32(3), 260–268.
- Huckvale, K., Morrison, C., Ouyang, J., Ghaghda, A., & Car, J. (2015). The evolution of mobile apps for asthma: An updated systematic assessment of content and tools. *BMC Medicine*, 13(1), 58. <https://doi.org/10.1186/s12916-015-0303-x>



- Hussain, A., Mkpojiogu, E. O., Abubakar, H., & Hassan, H. M. (2019). A mobile usability test assessment of an online shopping application. *Journal of Computational and Theoretical Nanoscience*, 16(5–6), 2511–2516.

Iio, M., Miyaji, Y., Yamamoto-Hanada, K., Narita, M., Nagata, M., & Ohya, Y. (2020). Beneficial Features of a mHealth Asthma App for Children and Caregivers: Qualitative Study. *JMIR MHealth and UHealth*, 8(8), e18506. <https://doi.org/10.2196/18506>

Izquierdo-Domínguez, A., Jauregui, I., Del Cuvillo, A., Montoro, J., Dávila, I., Sastre, J., Bartra, J., Ferrer, M., Allobid, I., & Mullool, J. (2017). Allergy rhinitis: Similarities and differences between children and adults. *Rhinology*, 55(4), 326–331.

James, D. C., & Cedric Harville, I. I. (2016). Peer reviewed: EHealth literacy, online help-seeking behavior, and willingness to participate in mHealth chronic disease research among African Americans, Florida, 2014–2015. *Preventing Chronic Disease*, 13.

Joseph, C. L. M., Peterson, E., Havstad, S., Johnson, C. C., Hoerauf, S., Stringer, S., Gibson-Scipio, W., Ownby, D. R., Elston-Lafata, J., Pallonen, U., & Strecher, V. (2007). A Web-based, Tailored Asthma Management Program for Urban African-American High School Students. *American Journal of Respiratory and Critical Care Medicine*, 175(9), 888–895. <https://doi.org/10.1164/rccm.200608-1244OC>

Katerine, K., Medison, I., & Rustam, E. (2014). Hubungan Tingkat Pengetahuan Mengenai Asma dengan Tingkat Kontrol Asma. *Jurnal Kesehatan Andalas*, 3(1), Article 1. <https://doi.org/10.25077/jka.v3i1.27>

Kelso, J. M. (2016). Do written asthma action plans improve outcomes? *Pediatric Allergy, Immunology, and Pulmonology*, 29(1), 2–5.

Khandpur, R. S. (2017). *Telemedicine technology and applications (mHealth, TeleHealth and eHealth)*. PHI Learning Pvt. Ltd.

Khusial, R. J., Honkoop, P. J., Usmani, O., Soares, M., Simpson, A., Biddiscombe, M., Meah, S., Bonini, M., Lalas, A., Polychronidou, E., Koopmans, J. G., Moustakas, K., Snoeck-Stroband, J. B., Ortmann, S., Votis, K., Tzovaras, D., Chung, K. F., Fowler, S., & Sont, J. K. (2020). Effectiveness of myAirCoach: A mHealth Self-Management System in Asthma. *The Journal of Allergy and Clinical Immunology: In Practice*, 8(6), 1972–1979.e8. <https://doi.org/10.1016/j.jaip.2020.02.018>

Kosse, R. C., Bouvy, M. L., de Vries, T. W., & Koster, E. S. (2019). Effect of a mHealth intervention on adherence in adolescents with asthma: A randomized controlled trial. *Respiratory Medicine*, 149, 45–51.

Lakupoch, K., Manuyakorn, W., Preutthipan, A., & Kamalaporn, H. (2018). The effectiveness of newly developed written asthma action plan in improvement of asthma outcome in children. *Asian Pacific Journal of Allergy and Immunology*, 36(2), 88–92.

Law, S. W., Wong, A. Y., Anand, S., Wong, I. C., & Chan, E. W. (2018). Neuropsychiatric events associated with leukotriene-modifying agents: A systematic review. *Drug Safety*, 41(3), 253–265.



- Lee, M., Lee, H., Kim, Y., Kim, J., Cho, M., Jang, J., & Jang, H. (2018). Mobile App-Based Health Promotion Programs: A Systematic Review of the Literature. *International Journal of Environmental Research and Public Health*, 15(12), 2838. <https://doi.org/10.3390/ijerph15122838>

Lenfant, C. (n.d.). *COORDINATION OF FEDERAL ASTHMA ACTIVITIES*. 11.

Liansyah, T. M. (2014). *Hubungan Antara Efikasi Diri Dan Dukungan Keluarga Dengan Kualitas Hidup Pasien Asma* [Thesis, UNS (Sebelas Maret University)]. <https://digilib.uns.ac.id/dokumen/36515/Hubungan-Antara-Efikasi-Diri-Dan-Dukungan-Keluarga-Dengan-Kualitas-Hidup-Pasien-Asma>

Licari, A., Brambilla, I., Marseglia, A., De Filippo, M., Paganelli, V., & Marseglia, G. L. (2018). Difficult vs. severe asthma: Definition and limits of asthma control in the pediatric population. *Frontiers in Pediatrics*, 6, 170.

Licskai, C., Sands, T. W., & Ferrone, M. (2013). Development and pilot testing of a mobile health solution for asthma self-management: Asthma action plan smartphone application pilot study. *Canadian Respiratory Journal*, 20(4), 301–306. <https://doi.org/10.1155/2013/906710>

Liu, W.-T., Huang, C.-D., Wang, C.-H., Lee, K.-Y., Lin, S.-M., & Kuo, H.-P. (2011). A mobile telephone-based interactive self-care system improves asthma control. *European Respiratory Journal*, 37(2), 310–317. <https://doi.org/10.1183/09031936.00000810>

Lowdermilk, T. (2013). *User-Centered Design: A Developer's Guide to Building User-Friendly Applications*. O'Reilly Media, Inc.

Lu, K., Marino, N. E., Russell, D., Singareddy, A., Zhang, D., Hardi, A., Kaar, S., & Puri, V. (2018). Use of short message service and smartphone applications in the management of surgical patients: A systematic review. *Telemedicine and E-Health*, 24(6), 406–414.

Lwanga, S. K., Lemeshow, S., & Organization, W. H. (1991). *Sample size determination in health studies: A practical manual*. World Health Organization.

Mancuso, C. A., Sayles, W., & Allegrante, J. P. (2009). Development and testing of the Asthma Self-Management Questionnaire. *Annals of Allergy, Asthma & Immunology*, 102(4), 294–302. [https://doi.org/10.1016/S1081-1206\(10\)60334-1](https://doi.org/10.1016/S1081-1206(10)60334-1)

Maselli, D. J., Hardin, M., Christenson, S. A., Hanania, N. A., Hersh, C. P., Adams, S. G., Anzueto, A., Peters, J. I., Han, M. K., & Martinez, F. J. (2019). Clinical approach to the therapy of asthma-COPD overlap. *Chest*, 155(1), 168–177.

McGregor, M. C., Krings, J. G., Nair, P., & Castro, M. (2019). Role of biologics in asthma. *American Journal of Respiratory and Critical Care Medicine*, 199(4), 433–445.

Measurement Tools in Patient Education. (2003). Springer Publishing Company.

Milligan, K. L., Matsui, E., & Sharma, H. (2016). Asthma in urban children: Epidemiology, environmental risk factors, and the public health domain. *Current Allergy and Asthma Reports*, 16(4), 33.

Morrison, D., Wyke, S., Agur, K., Cameron, E. J., Docking, R. I., MacKenzie, A. M., McConnachie, A., Raghuvir, V., Thomson, N. C., & Mair, F. S. (2014).



- Digital Asthma Self-Management Interventions: A Systematic Review. *Journal of Medical Internet Research*, 16(2), e2814. <https://doi.org/10.2196/jmir.2814>

Mosnaim, G. S., Pappalardo, A. A., Resnick, S. E., Codispoti, C. D., Bandi, S., Nackers, L., Malik, R. N., Vijayaraghavan, V., Lynch, E. B., & Powell, L. H. (2016). Behavioral Interventions to Improve Asthma Outcomes for Adolescents: A Systematic Review. *The Journal of Allergy and Clinical Immunology: In Practice*, 4(1), 130–141. <https://doi.org/10.1016/j.jaip.2015.09.011>

Mt, G., Satibi, Ikawati, Z., & Lazuardi, L. (2019). Smartphone app for asthma self-management – a literature review of contents and functions. *International Journal of Research in Pharmaceutical Sciences*, 10(4), 3269–3276. <https://doi.org/10.26452/ijrps.v10i4.1632>

Nainggolan, N. T., Munandar, M., Sudarso, A., Nainggolan, L. E., Fuadi, F., Hastuti, P., Ardiana, D. P. Y., Sudirman, A., Gandasari, D., Mistriani, N., Kusuma, A. H. P., Rumondang, A., & Gusman, D. (2020). *Perilaku Konsumen Di Era Digital*. Yayasan Kita Menulis.

Nakra, N., & Pandey, M. (2019). Smartphone as an intervention to intention-behavior of patient care. *Health Policy and Technology*, 8(2), 143–150.

Nguyen, J. M., Holbrook, J. T., Wei, C. Y., Gerald, L. B., Teague, W. G., & Wise, R. A. (2014). Validation and psychometric properties of the Asthma Control Questionnaire among children. *Journal of Allergy and Clinical Immunology*, 133(1), 91–97.e6. <https://doi.org/10.1016/j.jaci.2013.06.029>

Notess, M., 2008. *An assessment of contextual design and its applicability to the design of educational technologies* (Doctoral dissertation, Indiana University).

Novitasari, F. (2020). *Pengaruh penyuluhan dengan menggunakan media leaflet terhadap pengetahuan pasien asma di RSUD Kabupaten Sidoarjo* [Undergraduate, Widya Mandala Catholic University Surabaya]. <https://doi.org/10.7/LAMPIRAN.pdf>

Padula, W. V., Connor, K. A., Mueller, J. M., Hong, J. C., Velazquez, G. C., & Johnson, S. B. (2018). Cost benefit of comprehensive primary and preventive school-based health care. *American Journal of Preventive Medicine*, 54(1), 80–86.

Pavord, I. D., Beasley, R., Agusti, A., Anderson, G. P., Bel, E., Brusselle, G., Cullinan, P., Custovic, A., Ducharme, F. M., & Fahy, J. V. (2018). After asthma: Redefining airways diseases. *The Lancet*, 391(10118), 350–400.

Perry, T. T., Marshall, A., Berlinski, A., Rettiganti, M., Brown, R. H., Randle, S. M., Luo, C., & Bian, J. (2017). Smartphone-based vs paper-based asthma action plans for adolescents. *Annals of Allergy, Asthma & Immunology: Official Publication of the American College of Allergy, Asthma, & Immunology*, 118(3), 298–303. <https://doi.org/10.1016/j.anai.2016.11.028>

Perry, T. T., & Turner, J. H. (2019). School-based telemedicine for asthma management. *The Journal of Allergy and Clinical Immunology: In Practice*, 7(8), 2524–2532.



- Poushter, J., Bishop, C., & Chwe, H. (2018). *Social media use continues to rise in developing countries but plateaus across developed ones*. Pew Research Internet Project.

Price, D., David-Wang, A., Cho, S.-H., Ho, J. C.-M., Jeong, J.-W., Liam, C.-K., Lin, J., Muttalif, A. R., Perng, D.-W., & Tan, T.-L. (2016). Asthma in Asia: Physician perspectives on control, inhaler use and patient communications. *Journal of Asthma*, 53(7), 761–769.

Rahagia, R. (2017). Analisis Hubungan Pengetahuan Dan Perilaku Pengendalian Faktor-Faktor Pemicu Asma Dengan Tingkat Keparahan Penyakit Asma Pada Pasien Asma Di Instalasi Gawat Darurat. Tesis. Fakultas Kedokteran Universitas Brawijaya Malang.

Rikkers-Mutsaerts, E. R. V. M., Winters, A. E., Bakker, M. J., van Stel, H. F., van der Meer, V., de Jongste, J. C., Sont, J. K., & the SMASHING Study Group. (2012). Internet-based self-management compared with usual care in adolescents with asthma: A randomized controlled trial: Self-Management in Adolescents With Asthma. *Pediatric Pulmonology*, 47(12), 1170–1179. <https://doi.org/10.1002/ppul.22575>

Roberts, C. A., Geryk, L. L., Sage, A. J., Sleath, B. L., Tate, D. F., & Carpenter, D. M. (2016). Adolescent, caregiver, and friend preferences for integrating social support and communication features into an asthma self-management app. *Journal of Asthma*, 53(9), 948–954.

Rochester, C. L., Vogiatzis, I., Holland, A. E., Lareau, S. C., Marciuk, D. D., Puhan, M. A., Spruit, M. A., Masefield, S., Casaburi, R., Clini, E. M., Crouch, R., Garcia-Aymerich, J., Garvey, C., Goldstein, R. S., Hill, K., Morgan, M., Nici, L., Pitta, F., Ries, A. L., ... ZuWallack, R. L. (2015). An Official American Thoracic Society/European Respiratory Society Policy Statement: Enhancing Implementation, Use, and Delivery of Pulmonary Rehabilitation. *American Journal of Respiratory and Critical Care Medicine*, 192(11), 1373–1386. <https://doi.org/10.1164/rccm.201510-1966ST>

Saeed, H., Abdelrahim, M. E., Rabea, H., & Salem, H. F. (2020). Impact of Advanced Patient Counseling Using a Training Device and Smartphone Application on Asthma Control. *Respiratory Care*, 65(3), 326–332. <https://doi.org/10.4187/respcare.06903>

Schatz, M., Sorkness, C. A., Li, J. T., Marcus, P., Murray, J. J., Nathan, R. A., Kosinski, M., Pendergraft, T. B., & Jhingran, P. (2006). Asthma Control Test: Reliability, validity, and responsiveness in patients not previously followed by asthma specialists. *The Journal of Allergy and Clinical Immunology*, 117(3), 549–556. <https://doi.org/10.1016/j.jaci.2006.01.011>

Schneider, T., Baum, L., Amy, A., & Marissa, C. (2020). I have most of my asthma under control and I know how my asthma acts: Users' perceptions of asthma self-management mobile app tailored for adolescents. *Health Informatics Journal*, 26(1), 342–353. <https://doi.org/10.1177/1460458218824734>

Schneider, T., Panzera, A. D., Couluris, M., Lindenberger, J., McDermott, R., & Bryant, C. A. (2015). Engaging Teens with Asthma in Designing a Patient-Centered Mobile App to Aid Disease Self-Management. *Telemedicine and E-Health*, 22(2), 170–175. <https://doi.org/10.1089/tmj.2015.0041>

- Serebriskiy, D., & Wiznia, A. (2019). Pediatric asthma: A global epidemic. *Annals of Global Health*, 85(1).

Simpson, A. J., Honkoop, P. J., Kennington, E., Snoeck-Stroband, J. B., Smith, I., East, J., Coleman, C., Caress, A., Chung, K. F., & Sont, J. K. (2017). Perspectives of patients and healthcare professionals on mHealth for asthma self-management. *European Respiratory Journal*, 49(5).

Sinharoy, A., Mitra, S., & Mondal, P. (2018). Socioeconomic and environmental predictors of asthma-related mortality. *Journal of Environmental and Public Health*, 2018.

Sloand, E., Butz, A., Rhee, H., Walters, L., Breuninger, K., Pozzo, R. A., Barnes, C. M., Wicks, M. N., & Tumiel-Berhalter, L. (2019). Influence of social support on asthma self-management in adolescents. *Journal of Asthma*, 1–9.

Sobieraj, D. M., Weeda, E. R., Nguyen, E., Coleman, C. I., White, C. M., Lazarus, S. C., Blake, K. V., Lang, J. E., & Baker, W. L. (2018). Association of inhaled corticosteroids and long-acting β-agonists as controller and quick relief therapy with exacerbations and symptom control in persistent asthma: A systematic review and meta-analysis. *Jama*, 319(14), 1485–1496.

Strzelak, A., Ratajczak, A., Adamiec, A., & Feleszko, W. (2018). Tobacco smoke induces and alters immune responses in the lung triggering inflammation, allergy, asthma and other lung diseases: A mechanistic review. *International Journal of Environmental Research and Public Health*, 15(5), 1033.

Sudijono, A. (2010). Pengantar Statistik Pendidikan. Jakarta. Ja Grafindo.

Tinschert, P., Jakob, R., Barata, F., Kramer, J.-N., & Kowatsch, T. (2017). The Potential of Mobile Apps for Improving Asthma Self-Management: A Review of Publicly Available and Well-Adopted Asthma Apps. *JMIR MHealth and UHealth*, 5(8), e113. <https://doi.org/10.2196/mhealth.7177>

To, T., Lougheed, M. D., McGihon, R., Zhu, J., Gupta, S., & Licskai, C. (2020). Does an mHealth system reduce health service use for asthma? *ERJ Open Research*, 6(3). <https://doi.org/10.1183/23120541.00340-2019>

Tommola, M., Ilmarinen, P., Tuomisto, L. E., Lehtimäki, L., Haanpää, J., Niemelä, O., & Kankaanranta, H. (2017). Differences between asthma–COPD overlap syndrome and adult-onset asthma. *European Respiratory Journal*, 49(5).

Valle, J., Godby, T., Paul III, D. P., Smith, H., & Coustasse, A. (2017). Use of smartphones for clinical and medical education. *The Health Care Manager*, 36(3), 293–300.

Van Gaalen, J. L., Hashimoto, S., & Sont, J. K. (2012). Telemanagement in asthma: An innovative and effective approach. *Current Opinion in Allergy and Clinical Immunology*, 12(3), 235–240. <https://doi.org/10.1097/ACI.0b013e3283533700>

Waladi, Z. (2016). HUBUNGAN TINGKAT PENGETAHUAN PASIEN ASMA DENGAN DERAJAT ASMA DAN TINGKAT KONTROL ASMA DI POLIKLINIK PARU RSUD DR. ZAINOEL ABIDIN BANDA ACEH. *ETD Unsyiah*.

Weinstein, A. G., Singh, A., Laurenceau, J.-P., Skoner, D. P., Maiolo, J., Sharara, R., Ma, K., Cheema, T., Butler, E., Kong, A., Thakkar, P., & Gentile, D. A. (2019). A Pilot Study of the Effect of an Educational Web Application on



- Asthma Control and Medication Adherence. *The Journal of Allergy and Clinical Immunology: In Practice*, 7(5), 1497–1506.
<https://doi.org/10.1016/j.jaip.2018.12.024>

Wen, L., Sweeney, T. E., Welton, L., Trockel, M., & Katznelson, L. (2017). Encouraging mindfulness in medical house staff via smartphone app: A pilot study. *Academic Psychiatry*, 41(5), 646–650.

Wilhide III, C. C., Peeples, M. M., & Kouyaté, R. C. A. (2016). Evidence-based mHealth chronic disease mobile app intervention design: Development of a framework. *JMIR Research Protocols*, 5(1), e25.

Xie, J., Hu, Y., Wang, G., & Lu, C. (2017). Effect of a mobile medical app on outpatient experience: A cross-sectional study. *The Lancet*, 390, S65.