



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., Dwidasmar, 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., Kuhlmeier, 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](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>





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.



- 113





- 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.