

## DAFTAR PUSTAKA

- Abbas, Z. dan Rehman, S., 2018. An Overview of Cancer Treatment Modalities, dalam: *Neoplasms*. hal. 139–157.
- Acharya, A.S., Prakash, A., Saxena, P., dan Nigam, A., 2013. Sampling: why and how of it? *Indian Journal of Medical Specialities*, **4**: 3–7.
- Ahmadi, H., Arji, G., Shahmoradi, L., Safdari, R., Nilashi, M., dan Alizadeh, M., 2019. *The Application of Internet of Things in Healthcare: A Systematic Literature Review and Classification*, Universal Access in the Information Society. Springer Berlin Heidelberg.
- Ahmed, I., Ahmad, N.S., Ali, Shahnaz, Ali, Shair, George, A., Danish, H.S., dkk., 2018. Medication adherence apps: Review and content analysis. *JMIR mHealth and uHealth*, **6**: 1–13.
- Ahmed, S., Bridar, S., Ahmed, A., dan Halcher, S., 2022. Role of Clinical Pharmacist in Improving of Medication Adherence and Quality of Life in Chronic Disease Patients: A Brief Overview. *Acta Scientific Pharmaceutical Sciences*, **6**: 30–36.
- Akbar, S., Coiera, E., dan Magrabi, F., 2020. Safety concerns with consumer-facing mobile health applications and their consequences: A scoping review. *Journal of the American Medical Informatics Association*, **27**: 330–340.
- Al-Tae, M.A., Al-Nuaimy, W., Al-Ataby, A., Muhsin, Z.J., dan Abood, S.N., 2015. Mobile health platform for diabetes management based on the Internet-of-Things. *2015 IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies, AEECT 2015*, 0–4.
- Albrecht, U., 2016. Chances and Risks of Mobile Health Apps (CHARISMHA)–Abridged Version.
- Aljedaani, B. dan Babar, M.A., 2021. Challenges with developing secure mobile health applications: Systematic review. *JMIR mHealth and uHealth*, .
- Aminuddin, H.B., Jiao, N., Jiang, Y., Hong, J., dan Wang, W., 2021. Effectiveness of smartphone-based self-management interventions on self-efficacy, self-care activities, health-related quality of life and clinical outcomes in patients with type 2 diabetes: A systematic review and meta-analysis. *International Journal of Nursing Studies*, **116**: 1–10.
- Anakotta, N.O., Rochmawati, E., dan Saidi, S.B., 2023. Effectiveness of m-health based self-management on self-efficacy in patients with cancer: A systematic review and meta-analysis. *Jurnal Ners*, **18**: 200–209.
- Antol, D.D., Casebeer, A.W., Khoury, R., Michael, T., Renda, A., Hopson, S., dkk., 2018. The relationship between comorbidity medication adherence and

health related quality of life among patients with cancer. *Journal of Patient-Reported Outcome*, **2**: 1–12.

- Armitage, L.C., Kassavou, A., dan Sutton, S., 2020. Do mobile device apps designed to support medication adherence demonstrate efficacy? A systematic review of randomised controlled trials, with meta-analysis. *BMJ Open*, **10**: 1–9.
- Badawy, S.M., Barrera, L., Sinno, M.G., Kaviany, S., O’dwyer, L.C., dan Kuhns, L.M., 2017. Text messaging and mobile phone apps as interventions to improve adherence in adolescents with chronic health conditions: A systematic review. *JMIR mHealth and uHealth*, **5**: 1–17.
- Bagcivan, G. dan Akbayrak, N., 2015. Development and Psychometric Testing of the Turkish-Version Oral Chemotherapy Adherence Scale. *Journal of Nursing Research*, **23**: 243–251.
- Bandiera, C., Cardoso, E., Locatelli, I., Digkila, A., Zaman, K., Diciolla, A., dkk., 2021. Optimizing oral targeted anticancer therapies study for patients with solid cancer: Protocol for a randomized controlled medication adherence program along with systematic collection and modeling of pharmacokinetic and pharmacodynamic data. *JMIR Research Protocols*, **10**: p.1-10.
- Bandura, A., 1998. Self-Efficacy. *Encyclopedia of mental health*, .
- Bassan, F., Peter, F., Houbre, B., Brennstuhl, M.J., Costantini, M., Speyer, E., dkk., 2014. Adherence to oral antineoplastic agents by cancer patients: Definition and literature review. *European Journal of Cancer Care*, **23**: 22–35.
- Bastien, J.M.C., 2010. Usability testing: a review of some methodological and technical aspects of the method. *International Journal of Medical Informatics*, **79**: e18–e23.
- Bauchner, H., Osganian, S., Smith, K., dan Triant, R., 2001. Improving parent knowledge about antibiotics: A video intervention. *Pediatrics*, **108**: 845–850.
- Bhattacharya, D., Easthall, C., Willoughby, K.A., Small, M., dan Watson, S., 2012. Capecitabine non-adherence: Exploration of magnitude, nature and contributing factors. *Journal of Oncology Pharmacy Practice*, **18**: 333–342.
- Bhattacharyya, G.S., 2010. Oral systemic therapy: Not all “win-win.” *Indian Journal of Medical and Paediatric Oncology*, **31**: 1–3.
- Birand, N., Bosnak, A.S., Diker, O., Abdikarim, A., dan Basgut, B., 2019. The role of the pharmacist in improving medication beliefs and adherence in cancer patients. *Journal of Oncology Pharmacy Practice*, **25**: 1916–1926.
- Boltong, A., Aranda, S., Keast, R., Wynne, R., Francis, P.A., Chirgwin, J., dkk., 2014. A prospective cohort study of the effects of adjuvant breast cancer chemotherapy on taste function, food liking, appetite and associated

nutritional outcomes. *PLoS ONE*, **9**: 1–9.

Børøsd, E., Mirkovic, J., Clark, M.M., Ehlers, S.L., Andrykowski, M.A., Bergland, A., dkk., 2018. A Stress Management App Intervention for Cancer Survivors : Design, Development, and Usability Testing. *JMIR Formative Research*, **2**: e19 p1-p16.

Bosworth, H.B., Granger, B.B., Mendys, P., Pharm, D., Brindis, R., Ho, M., dkk., 2011. Medication adherence : A call for action. *American Heart Journal*, **162**: 412–424.

Bottomley, A., 2002. The Cancer Patient and Quality of Life. *The Oncologist*, **7**: 120–125.

Bouwman, L., Eeltink, C.M., Visser, O., Janssen, J.J., dan Maaskant, J.M., 2017. Prevalence and associated factors of medication non-adherence in hematological-oncological patients in their home situation. *BMC Cancer*, **17**: 739.

Bower, J.E., 2014. Cancer-related fatigue--mechanisms, risk factors, and treatments. *Nature reviews. Clinical oncology*, **11**: 597–609.

Boyle, D. and J.B., 2007. Enhancing Patient Adherence to Improve Outcomes With Oral Chemotherapy. *US Pharmacist*, **32**: 1–8.

Brown, W., Yen, P.Y., Rojas, M., dan Schnall, R., 2013. Assessment of the Health IT Usability Evaluation Model (Health-ITUEM) for evaluating mobile health (mHealth) technology. *Journal of Biomedical Informatics*, **46**: 1080–1087.

Burhenn, P.S. dan Smudde, J., 2015. Using tools and technology to promote education and adherence to oral agents for cancer. *Clinical Journal of Oncology Nursing*, **19**: 53–59.

C.J.Mann, 2003. Observational research methods. Research design II : cohort. cross sectional, and case-control studies. *Emergency Medicine Journal*, **20**: 54–61.

Cameron, K.A., Ross, E.L., Clayman, M.L., Bergeron, A.R., Federman, A.D., Cooper, S., dkk., 2010. Patient Education and Counseling Measuring patients ' self-efficacy in understanding and using prescription medication. *Patient Education and Counseling*, **80**: 372–376.

Cazañas, A., De San Miguel, A., dan Parra, E., 2017. Estimating Sample Size for Usability Testing. *Enfoque UTE*, **8**: 172–185.

Cella, D.F., Ph, D., Tulsky, D.S., dan Ph, D., 1993. Quality of Life in Cancer : Definition , Purpose , and Method of Measurement. *Cancer Investigation*, **336**: 327–336.

Chen, Y.Y., Guan, B.S., Li, Z.K., dan Li, X.Y., 2018. Effect of telehealth intervention on breast cancer patients' quality of life and psychological

- outcomes: A meta-analysis. *Journal of Telemedicine and Telecare*, **24**: 157–167.
- Chew, S., Lai, P.S.M., dan Ng, C.J., 2020. Usability and utility of a mobile app to improve medication adherence among ambulatory care patients in Malaysia: Qualitative study. *JMIR mHealth and uHealth*, **8**: 1–12.
- Choi, J., Kim, S., Choi, M., dan Hyung, W.J., 2022. Factors affecting the quality of life of gastric cancer survivors. *Supportive Care in Cancer*, **30**: 3215–3224.
- Collado-Borrell, R., Escudero-Vilaplana, V., Ribed, A., Gonzalez-Anleo, C., Martin-Conde, M., Romero-Jimenez, R., dkk., 2020. Effect of a Mobile App for the Pharmacotherapeutic Follow-Up of Patients with Cancer on Their Health Outcomes: Quasi-Experimental Study. *JMIR mHealth and uHealth*, **8**: 1–12.
- Colombo, L.R.P., Aguiar, P.M., Lima, T.M., dan Storpirtis, S., 2017. The effects of pharmacist interventions on adult outpatients with cancer: A systematic review. *Journal of Clinical Pharmacy and Therapeutics*, **42**: 414–424.
- Cooper GM, 2000. The Development and Causes of Cancer - The Cell - NCBI Bookshelf, dalam: *The Cell: A Molecular Approach*. Sinauer Associates, Sunderland.
- Costa, A.R., Fontes, F., Pereira, S., Gonçalves, M., Azevedo, A., dan Lunet, N., 2014. Impact of breast cancer treatments on sleep disturbances - A systematic review. *Breast*, **23**: 697–709.
- Coutsouvelis, J., Adams, J., Dip, G., Bortz, H., Chau, M., Chiang, K., dkk., 2020. Standard of practice in oncology and haematology for pharmacy services. *Journal of Pharmacy Practice and Research*, **50**: 528–545.
- Cramer, J.A., Roy, A., Burrell, A., dan Fairchild, C.J., 2008. Medication Compliance and Persistence. *Value in Health*, **11**: 44–47.
- Cunningham, A.J., Lockwood, G.A., dan Cunningham, J.A., 1991. A Relationship Between Perceived Self-Efficacy of Life in Cancer Patients. *Patient Education and Counseling*, **17**: 71–78.
- Daniali, S., Darani, F., Eslami, A., dan Mazaheri, M., 2017. Relationship between Self-efficacy and Physical Activity, Medication Adherence in Chronic Disease Patients. *Advanced Biomedical Research*, **6**: 63.
- Davis, S.W. dan Oakley-Girvan, I., 2017. Achieving value in mobile health applications for cancer survivors. *Journal of Cancer Survivorship*, **11**: 498–504.
- Davoudi, M., Ghezeljeh, T.N., dan Aghouee, F.V., 2020. Effect of a Smartphone-Based App on the Quality of Life of Patients With Heart Failure: Randomized Controlled Trial. *JMIR Nursing*, **3**: 1–12.

- Dayer, L., Heldenbrand, S., dan Anderson, P., 2013. Smartphone medication adherence apps: Potential benefits to patients and providers: Response to Aungst. *Journal of the American Pharmacists Association*, **53**: 345.
- Dayer, L.E., Shilling, R., Van Valkenburg, M., Martin, B.C., Gubbins, P.O., Hadden, K., dkk., 2017. Assessing the medication adherence app marketplace from the health professional and consumer vantage points. *JMIR mHealth and uHealth*, **5**: 1–12.
- DiMatteo, M.R., 2004. Social Support and Patient Adherence to Medical Treatment: A Meta-Analysis. *Health Psychology*, **23**: 207–218.
- DiMatteo, M.R., Haskard-Zolnieriek, K.B., dan Martin, L.R., 2012. Improving patient adherence: A three-factor model to guide practice. *Health Psychology Review*, **6**: 74–91.
- Ebrahimi, A., Ahmadi, M., dan Mahmoudi, S., 2022. The Impact of Self-efficacy and Health Literacy on Medication Adherence and Health-related Quality of Life in Patients with Heart Failure: A Systematic Review. *Journal of Clinical Research in Paramedical Sciences*, **11**: 1–8.
- Eek, D., Krohe, M., Mazar, I., Horsfield, A., Pompilus, F., Friebe, R., dkk., 2016. Patient-reported preferences for oral versus intravenous administration for the treatment of cancer: A review of the literature. *Patient Preference and Adherence*, **10**: 1609–1621.
- Ennis, E. dan Corry, C., 2014. Caregiving, Family Burden and Medication Adherence. *Open Journal of Medical Psychology*, **03**: 70–78.
- Ensing, H.T., Koster, E.S., Sontoredjo, T.A.A., van Dooren, A.A., dan Bouvy, M.L., 2017. Pharmacists' barriers and facilitators on implementing a post-discharge home visit. *Research in Social and Administrative Pharmacy*, **13**: 811-819.e2.
- Fallowfield, L., 2002. Quality of Life: a new perspective for cancer patients. *Nature Reviews*, **2**: 873–879.
- Fayers, P. dan Bottomley, A., 2002. Quality of life research within the EORTC — the EORTC QLQ-C30. *European Journal of Cancer*, **38**: S125–S133.
- Felton, M.A., Van Londen, G.J., dan Marcum, Z.A., 2016. Medication adherence to oral cancer therapy: The promising role of the pharmacist. *Journal of Oncology Pharmacy Practice*, **22**: 378–381.
- Fishbein, J.N., Nisotel, L.E., MacDonald, J.J., Amoyal Pensak, N., Jacobs, J.M., Flanagan, C., dkk., 2017. Mobile Application to Promote Adherence to Oral Chemotherapy and Symptom Management: A Protocol for Design and Development. *JMIR Research Protocols*, **6**: e62.
- Geissler, J., Sharf, G., Bombaci, F., Daban, M., De Jong, J., Gavin, T., dkk., 2017. Factors influencing adherence in CML and ways to improvement: Results of

- a patient-driven survey of 2546 patients in 63 countries. *Journal of Cancer Research and Clinical Oncology*, **143**: 1167–1176.
- Geng, Y. dan Myneni, S., 2015. Patient Engagement in Cancer Survivorship Care through mHealth\_ A Consumer-centered Review of Existing Mobile Applications. *AMIA Annu Symp Proc*, 580–588.
- Ghozali, M.T., Satibi, S., Ikawati, Z., dan Lazuardi, L., 2021. Asthma self-management app for Indonesian asthmatics: A patient-centered design. *Computer Methods and Programs in Biomedicine*, **211**: 106392.
- Giebel, G.D., Speckemeier, C., Abels, C., Plescher, F., Borchers, K., Wasem, J., dkk., 2023. Problems and Barriers Related to the Use of Digital Health Applications: Scoping Review. *Journal of Medical Internet Research*, **25**: e43808.
- Gozum, S. dan Hacıhasanoglu, R., 2009. Reliability and validity of the Turkish adaptation of medication adherence self-efficacy scale in hypertensive patients. *European Journal of Cardiovascular Nursing*, **8**: 129–136.
- Graetz, I., McKillop, C.N., Stepanski, E., Vidal, G.A., Anderson, J.N., dan Schwartzberg, L.S., 2018. Use of a web-based app to improve breast cancer symptom management and adherence for aromatase inhibitors: a randomized controlled feasibility trial. *Journal of Cancer Survivorship*, **12**: 431–440.
- Greer, J.A., Amoyal, N., Nisotel, L., Fishbein, J.N., MacDonald, J., Stagl, J., dkk., 2016. A Systematic Review of Adherence to Oral Antineoplastic Therapies. *The Oncologist*, **21**: 354–376.
- Greer, J.A., Jacobs, J.M., Pensak, N., Nisotel, L.E., Fishbein, J.N., MacDonald, J.J., dkk., 2020. Randomized Trial of a Smartphone Mobile App to Improve Symptoms and Adherence to Oral Therapy for Cancer. *Journal of the National Comprehensive Cancer Network*, **18**: 133–141.
- Greimel, E.R., Vlastic, K.K., Waldenstrom, A., Duric, V.M., Singer, S., Chie, W., dkk., 2006. The European Organization for Research and Questionnaire Cervical Cancer Module. *American Cancer Society*, **107**: 1812–1822.
- Griffin, L., Lee, D., Jaisle, A., Carek, P., George, T., Laber, E., dkk., 2019. Creating an mHealth app for colorectal cancer screening: User-centered design approach. *JMIR Human Factors*, **6**: p.1-12.
- Guest, G., Bunce, A., dan Johnson, L., 2006. How Many Interviews Are Enough?: An Experiment with Data Saturation and Variability. *Field Methods*, **18**: 59–82.
- Hansen, R.A., Kim, M.M., Song, L., Tu, W., Wu, J., dan Murray, M.D., 2009. Comparison of Methods to Assess Medication Adherence and Classify Nonadherence. *The Annals of Pharmacotherapy*, **43**: 413–422.
- Hassan, N.B., Hasanah, C.I., Foong, K., Naing, L., Awang, R., Ismail, S.B., dkk.,



2006. Identification of psychosocial factors of noncompliance in hypertensive patients. *Journal of Human Hypertension*, **20**: 23–29.
- Hefner, J., Berberich, S., Lanvers, E., Sanning, M., Steimer, A.K., dan Kunzmann, V., 2018. Patient–doctor relationship and adherence to capecitabine in outpatients of a german comprehensive cancer center. *Patient Preference and Adherence*, **12**: 1875–1887.
- Hematology/Oncology Pharmacy Association, 2013. *Scope of Hematology / Oncology Pharmacy Practice*. Hematology/Oncology Pharmacy Association, Chicago.
- Horne, R., Hankins, M., dan Jenkins, R., 2001. The Satisfaction with Information about Medicines Scale ( SIMS ): a new measurement tool for audit and research. *Quality in Health Care*, **10**: 135–140.
- Huang, F., Yang, Q., Wang, A., dan Zhang, J., 2018. Psychometric properties and performance of existing self-efficacy instruments in cancer populations : a systematic review. *Health and Quality of Life Outcomes*, **9**: 1–12.
- Huang, L., Li, L., Zhang, Y., Li, H., Li, X., dan Wang, H., 2013. Self-Efficacy, Medication Adherence, and Quality of Life Among People Living With HIV in Hunan Province of China: A Questionnaire Survey. *Journal of the Association of Nurses in AIDS Care*, **24**: 145–153.
- Huang, W., Chen, C., Lin, S., dan Chang, C., 2016. Expert Review of Anticancer Therapy Medication adherence to oral anticancer drugs : systematic review. *Expert Review of Anticancer Therapy*, **7140**: 1–30.
- Jiang, H., Dong, Y., Zong, W., Zhang, X. jie, Xu, H., dan Jin, F., 2022. The relationship among psychosocial adaptation, medication adherence and quality of life in breast cancer women with adjuvant endocrine therapy. *BMC Women's Health*, **22**: 1–11.
- Jiang, Y., Wickersham, K.E., Zhang, X., Barton, D.L., Farris, K.B., Krauss, J.C., dkk., 2019. Side effects, self-management activities, and adherence to oral anticancer agents. *Patient Preference and Adherence*, **13**: 2243–2252.
- Juwita, D.A., Almahdy, A., dan Afdila, R., 2019. Penilaian Kualitas Hidup Terkait Kesehatan Pasien Kanker Payudara di RSUP dr. M. Djamil Padang, Indonesia. *Jurnal Ilmu Kefarmasian Indonesia*, **17**: 114.
- Kaplan, W., 2013. Background Paper 6.5 Cancer and Cancer Therapeutics.
- Karekla, M., Kasinopoulos, O., Neto, D.D., Ebert, D.D., Van Daele, T., Nordgreen, T., dkk., 2019. Best Practices and Recommendations for Digital Interventions to Improve Engagement and Adherence in Chronic Illness Sufferers. *European Psychologist*, **24**: 49–67.
- Karmakar, M., Pinto, S.L., Jordan, T.R., Mohamed, I., dan Holiday-goodman, M., 2017. Predicting Adherence to Aromatase Inhibitor Therapy among Breast

Cancer Survivors : An Application of the Protection Motivation Theory.  
*Breast Cancer: Basic and Clinical Research*, **11**: 1–12.

Kawakami, K., Nakamoto, E., Yokokawa, T., Sugita, K., Mae, Y., Hagino, A., dkk., 2017. Patients' self-reported adherence to capecitabine on XELOX treatment in metastatic colorectal cancer: Findings from a retrospective cohort analysis. *Patient Preference and Adherence*, **9**: 561–567.

Kementerian Kesehatan RI, 2019. 'Hari Kanker Sedunia 2019', *Kementerian Kesehatan RI*. URL: <https://p2ptm.kemkes.go.id/informasi-p2ptm/hari-kanker-sedunia-2019>.

Kementerian Kesehatan RI, 2020. 'Jenis Kanker ini Rentan Menyerang Manusia', *Kementerian Kesehatan RI*. URL: <https://p2ptm.kemkes.go.id/kegiatan-p2ptm/pusat/-/jenis-kanker-ini-rentan-meny Serang-manusia#:~:text=Kanker yang rentan menyerang manusia,terbanyak adalah paru dan kolorektal>.

Kim, H.J., Kim, S.M., Shin, H., Jang, J.S., Kim, Y.I., dan Han, D.H., 2018. A Mobile Game for Patients With Breast Cancer for Chemotherapy Self-Management and Quality-of-Life Improvement: Randomized Controlled Trial. *Journal of Medical Internet Research*, **20**: e273.

Kimmick, G., Edmond, S.N., Bosworth, H.B., Peppercorn, J., Marcom, P.K., Blackwell, K., dkk., 2015. Medication taking behaviors among breast cancer patients on adjuvant endocrine therapy. *The Breast*, **24**: 630–636.

Klaunig, J.E., 2020. James E. Klaunig, dalam: Carey N. Pope; Jing Liu (Editor), *An Introduction to Interdisciplinary Toxicology*. Academic Press, hal. 97–110.

Krok-Schoen, J.L., Naughton, M.J., Young, G.S., Moon, J., Poi, M., Melin, S.A., dkk., 2019. Increasing Adherence to Adjuvant Hormone Therapy Among Patients With Breast Cancer: A Smart Phone App-Based Pilot Study. *Cancer Control*, **26**: 1–10.

Krolop, L., Ko, Y.-D., Schwindt, P.F., Schumacher, C., Fimmers, R., dan Jaehde, U., 2013. Adherence management for patients with cancer taking capecitabine: A prospective two-arm cohort study. *BMJ Open*, **3**: .

Krueger, K.P., Berger, B.A., dan Felkey, B., 2005. Medication Adherence and Persistence : A Comprehensive Review. *Advances in Therapy*, **22**: 319–362.

Lam, W.Y. dan Fresco, P., 2015. Medication Adherence Measures: An Overview. *BioMed Research International*, 1–12.

Lavsa, S.M., Holzworth, A., dan Ansani, N.T., 2011. adherence. *Journal of the American Pharmacist Association*, **51**: 90–94.

Lehmann, A., Aslani, P., Ahmed, R., Celio, J., Gauchet, A., Bedouch, P., dkk., 2014. Assessing medication adherence: Options to consider. *International Journal of Clinical Pharmacy*, **36**: 55–69.



- Mackler, E., Segal, E.M., Muluneh, B., Jeffers, K., dan Carmichael, J., 2019. 2018 Hematology/oncology pharmacist association best practices for the management of oral oncolytic therapy: Pharmacy practice standard. *Journal of Oncology Practice*, **15**: E346–E355.
- Magalhães, B., Fernandes, C., Martinez-Galiano, J.M., dan Santos, C., 2020. Exploring the use of Mobile applications by cancer patients undergoing chemotherapy: A scoping review. *International Journal of Medical Informatics*, **144**: p1-13.
- Mahler, C., Jank, S., Hermann, K., Horne, R., Ludt, S., Haefeli, W.E., dkk., 2009. Psychometric Properties of a German Version of the “ Satisfaction with Information about Medicines Scale .” *Value in Health*, **12**: 1176–1179.
- Maramba, I., Chatterjee, A., dan Newman, C., 2019. Methods of usability testing in the development of eHealth applications: A scoping review. *International Journal of Medical Informatics*, **126**: 95–104.
- Martin, L.R., Williams, S.R., Haskard, K.B., dan DiMatteo, M.R., 2005. The Challenge of Patient Adherence. *Therapeutics and Clinical Risk Management*, **1(3)**: 189–199.
- Marwin, M., Perwitasari, D.A., Candradewi, S.F., Septiantoro, B.P., dan Purba, F.D., 2021. Kualitas Hidup Pasien Kanker Payudara Di Rsup Dr. Kariadi Semarang Menggunakan Kuisioner EORTC QLQ-C30. *Jurnal Ilmu Farmasi dan Farmasi Klinik*, **18**: 16.
- Mathes, T., Pieper, D., Antoine, S.L., dan Eikermann, M., 2014. Adherence influencing factors in patients taking oral anticancer agents: A systematic review. *Cancer Epidemiology*, **38**: 214–226.
- McCue, D.A., Lohr, L.K., dan Pick, A.M., 2014. Improving adherence to oral cancer therapy in clinical practice. *Pharmacotherapy*, **34**: 481–494.
- Mcgavin, J.K., Goa, K.L., Kahlert, S., Grosshadern, K., dan Papamichael, D., 2001. A Review of its Use in the Treatment of Advanced or Metastatic Colorectal Cancer. *Drugs*, **61**: 2309–2326.
- McLean, S., Protti, D., dan Sheikh, A., 2011. Telehealthcare for long term conditions. *Bmj*, **342**: 374–378.
- Medeiros, K.S., Queiroz, J.F., Monteiro, M.N., Costa, W.A., Cobucci, R.N., Stransky, B., dkk., 2019. Impact of mobile applications on adherence to cancer treatment : a systematic review and meta-analysis protocol. *BMJ open*, **9**: 1–5.
- Miller, T.A. dan DiMatteo, M.R., 2013. Importance of family/social support and impact on adherence to diabetic therapy. *Diabetes, Metabolic Syndrome and Obesity*, **6**: 421–426.
- Mislang, A.R., Wildes, T.M., Kanesvaran, R., Baldini, C., Holmes, H.M.,

- Nightingale, G., dkk., 2017. Adherence to oral cancer therapy in older adults: The International Society of Geriatric Oncology (SIOG) taskforce recommendations. *Cancer Treatment Reviews*, **57**: 58–66.
- Moses, J.C., Adibi, S., Shariful Islam, S.M., Wickramasinghe, N., dan Nguyen, L., 2021. Application of smartphone technologies in disease monitoring: A systematic review. *Healthcare (Switzerland)*, **9**: 1–19.
- Muhamat, N.A., Hasan, R., Saddki, N., Arshad, M.R.M., dan Ahmad, M., 2021. Development and usability testing of mobile application on diet and oral health. *PLoS ONE*, **16**: 1–21.
- Muluneh, B., Deal, A., Alexander, M.D., Keisher, M.D., Markey, J.M., Neal, J.M., dkk., 2018. Patient perspectives on the barriers associated with medication adherence to oral chemotherapy. *Journal of Oncology Pharmacy Practice*, **24**: 98–109.
- Mystakidou, K., Parpa, E., dan Tsilika, E., 2008. General perceived self-efficacy : validation analysis in Greek cancer patients. *Support Care Cancer*, **16**: 1317–1322.
- Náfrádi, L., Nakamoto, K., dan Schulz, P.J., 2017. Is patient empowerment the key to promote adherence? A systematic review of the relationship between self-efficacy, health locus of control and medication adherence. *PLoS ONE*, **12**: 1–23.
- National Cancer Institute, 2015. 'What Is Cancer', *National Cancer Institute*. URL: <https://www.cancer.gov/about-cancer/understanding/what-is-cancer>.
- National eHealth Collaborative, 2012. 'The Patient Engagement Framework', *National eHealth Collaborative*. URL: <https://www.nationalehealth.org/patient-engagement-framework/>.
- Nikraftar, F., Heshmati Nabavi, F., Dastani, M., Mazlom, S.R., dan Mirhosseini, S., 2022. Acceptability, feasibility, and effectiveness of smartphone-based delivery of written educational materials in Iranian patients with coronary artery disease: A randomized control trial study. *Health Science Reports*, **5**: 1–12.
- Nogueira, T.A., Barbosa, L.A., dan Calil-Elias, S., 2012. Pharmaceutical home monitoring for oncology patients in palliative care. *Latin American Journal of Pharmacy*, **31**: 772–776.
- Noviyani, R., Tunas, K., Indrayathi, A., dan Budiana, N.G., 2016. Uji Validitas dan Reliabilitas Kuesioner EORTC QLQ C-30 untuk Menilai Kualitas Hidup Pasien Kanker Ginekologi di RSUP Sanglah Denpasar Validity and Reliability of EORTC QLQ C-30 Questionnaire in Assessing Quality of Life of Gynecological Cancer Patients i. *Jurnal Farmasi Klinik Indonesia*, **5**: 106–114.
- Osterberg, L. dan Blaschke, T., 2005. Adherence to Medication. *The New*

*England Journal of Medicine*, **353**: 487–497.

- Partridge, A.H., Archer, L., Kornblith, A.B., Gralow, J., Grenier, D., Perez, E., dkk., 2010. Adherence and persistence with oral adjuvant chemotherapy in older women with early-stage breast cancer in CALGB 49907: Adherence companion study 60104. *Journal of Clinical Oncology*, **28**: 2418–2422.
- Pereira-Salgado, A., Westwood, J.A., Russell, L., Ugalde, A., Ortlepp, B., Seymour, J.F., dkk., 2017. Mobile health intervention to increase oral cancer therapy adherence in patients with chronic myeloid leukemia (The REMIND system): Clinical feasibility and acceptability assessment. *JMIR mHealth and uHealth*, **5**: p.1-15.
- Periasamy, U., Mohd Sidik, S., Rampal, L., Fadhilah, S.I., Akhtari-Zavare, M., dan Mahmud, R., 2017. Effect of chemotherapy counseling by pharmacists on quality of life and psychological outcomes of oncology patients in Malaysia: A randomized control trial. *Health and Quality of Life Outcomes*, **15**: 1–10.
- Peters, M., Potter, C.M., Kelly, L., dan Fitzpatrick, R., 2019. Self-efficacy and health-related quality of life: A cross-sectional study of primary care patients with multi-morbidity 11 Medical and Health Sciences 1117 Public Health and Health Services. *Health and Quality of Life Outcomes*, **17**: 1–11.
- Presley, B., Groot, W., dan Pavlova, M., 2021. Pharmacists' and patients' perceptions about the importance of pharmacist services types to improve medication adherence among patients with diabetes in Indonesia. *BMC Health Services Research*, **21**: 1–15.
- Puspitasari, A.W., Kristina, S.A.R.I., dan Prabandari, Y.S., 2021a. Overview of Adherence and Influencing Factors to Capecitabine In Cancer Patients : Systematic Review. *International Journal of Pharmaceutical Research*, **13**: 3106–3118.
- Puspitasari, A.W., Kristina, S.A.R.I., dan Prabandari, Y.S., 2021b. Digital Intervention to Improve Oral Chemotherapy Adherence : Systematic Review **13**: 1310–1319.
- Qin, M., Chen, B., Sun, S., dan Liu, X., 2022. Effect of Mobile Phone App–Based Interventions on Quality of Life and Psychological Symptoms Among Adult Cancer Survivors: Systematic Review and Meta-analysis of Randomized Controlled Trials. *Journal of Medical Internet Research*, **24**: 1–22.
- QL Coordinator, 2001. 'EORTC QLQ-C30 Scoring Manual The EORTC QLQ-C30 Introduction', . EORTC data center, Brussels.
- Ratzan, S.C., 2001. Health literacy: Communication for the public good. *Health Promotion International*, **16**: 207–214.
- Reigner, B., Blesch, K., dan Weidekamm, E., 2001. Clinical Pharmacokinetics of Capecitabine. *Clin Pharmacokinet*, **40**: 85–104.

- Ribed, A., Romero-Jiménez, R.M., Escudero-Vilaplana, V., Iglesias-Peinado, I., Herranz-Alonso, A., Codina, C., dkk., 2016. Pharmaceutical care program for onco-hematologic outpatients: safety, efficiency and patient satisfaction. *International Journal of Clinical Pharmacy*, **38**: 280–288.
- Risser, J., Jacobson, T.A., dan Kripalani, S., 2007. Development and Psychometric Evaluation of the Self-Efficacy for. *Journal of Nursing Measurement*, **15**: 203–219.
- Ritter, P.L. dan Lorig, K., 2014. The English and Spanish Self-Efficacy to Manage Chronic Disease Scale measures were validated using multiple studies. *Journal of Clinical Epidemiology*, **67**: 1265–73.
- Rosli, N.A., Mazapuspavina, M.Y., Ismail, Z., dan Ismail, N.E., 2022. Relationship of Self Efficacy in Medication Understanding with Quality of Life among Elderly with Type 2 Diabetes Mellitus on Polypharmacy in Malaysia. *International Journal of Environmental Research and Public Health*, **19**: 1–17.
- Ross, X.S., Gunn, K.M., Patterson, P., dan Olver, I., 2018. Mobile-based oral chemotherapy adherence-enhancing interventions: Scoping review. *JMIR mHealth and uHealth*, **6**: p.1-11.
- Ross, X.S., Gunn, K.M., Suppiah, V., Patterson, P., dan Olver, I., 2020. A review of factors influencing non-adherence to oral antineoplastic drugs. *Supportive Care in Cancer*, **28**: 4043–4050.
- Ryhänen, A.M., Rankinen, S., Siekkinen, M., Saarinen, M., Korvenranta, H., dan Leino-Kilpi, H., 2013. The impact of an empowering Internet-based Breast Cancer Patient Pathway program on breast cancer patients' clinical outcomes: A randomised controlled trial. *Journal of Clinical Nursing*, **22**: 1016–1025.
- Saiful, M., Yusoff, B., dan Resilience, P., 2019. ABC of Content Validation and Content Validity Index Calculation. *Resources*, **11**: 49–54.
- Sakakibara, B.M., Ross, E., Arthur, G., Brown-Ganzert, L., Petrin, S., Sedlak, T., dkk., 2017. Using Mobile-Health to Connect Women with Cardiovascular Disease and Improve Self-Management. *Telemedicine and e-Health*, **23**: 233–239.
- Santo, K., Richtering, S.S., Chalmers, J., Thiagalingam, A., Chow, C.K., dan Redfern, J., 2016. Mobile phone apps to improve medication adherence: A systematic stepwise process to identify high-quality apps. *JMIR mHealth and uHealth*, **4**: e132.
- Sardi, L., Idri, A., dan Fernández-Alemán, J.L., 2017. A systematic review of gamification in e-Health. *Journal of Biomedical Informatics*, **71**: 31–48.
- Schellens, J., 2007. Clinical Pharmacology : Concise Drug Reviews Capecitabine. *The Oncologist*, **12**: 152–155.

- Schneider, S.M., Hess, K., dan Gosselin, T., 2011. Interventions to Promote Adherence with Oral Agents. *Seminars in Oncology Nursing*, **27**: 133–141.
- Shapiro-mathews, E. dan Barton, A.J., 2013. Clinical Nurse Specialist Using the Patient Engagement Framework to Develop an Institutional Mobile Health Strategy **80112**: 221–223.
- Sharfina, Z. dan Santoso, H.B., 2017. An Indonesian adaptation of the System Usability Scale (SUS). *2016 International Conference on Advanced Computer Science and Information Systems, ICACISIS 2016*, 145–148.
- Simpson, R.J., 2006. Challenges for Improving Medication adherence. *JAMA*, **296**: 2614–2615.
- Skilton, E., Aslam, M., Yeung, J., Gao, F., dan Melody, T., 2016. Embedding patient and public involvement within research – How to set up a research patient ambassador group within a NHS trust. *Journal of the Intensive Care Society*, **17**: 234–237.
- Sloan, F. dan Gelband, H., 2007. *Committee on Cancer Control in Low- and Middle-Income Countries Board on Global Health*. The National Academies Press, Washington (DC).
- Spoelstra, S.L. dan Given, C.W., 2011. Assessment and Measurement of Adherence to Oral Antineoplastic Agents. *Seminars in Oncology Nursing*, **27**: 116–132.
- Sprangers, M.A.G., 2002. Quality-of-Life Assessment in Oncology Quality-of-Life Assessment in Oncology. *Acta Oncologica*, **41**: 229–237.
- Sung, H., Ferlay, J., Siegel, R.L., Laversanne, M., Soerjomataram, I., Jemal, A., dkk., 2021. Global Cancer Statistics 2020 : GLOBOCAN Estimates of Incidence and Mortality Worldwide for 36 Cancers in 185 Countries **0**: 1–41.
- Taber, K.S., 2018. The Use of Cronbach's Alpha When Developing and Reporting Research Instruments in Science Education. *Research in Science Education*, **48**: 1273–1296.
- Taherdoost, H., 2016. Validity and Reliability of the Research Instrument; How to Test the Validation of a Questionnaire/Survey in a Research. *International Journal of Academic Research in Management*, **5**: 28–36.
- Tanaka, K., Hori, A., Tachi, T., Osawa, T., Nagaya, K., Makino, T., dkk., 2018. Impact of pharmacist counseling on reducing instances of adverse events that can affect the quality of life of chemotherapy outpatients with breast Cancer. *Journal of Pharmaceutical Health Care and Sciences*, **4**: 1–14.
- Timmers, L., Swart, E.L., Boons, C.C.L.M., Mangnus, D., van de Ven, P.M., Peters, G.J., dkk., 2012. The use of capecitabine in daily practice: A study on adherence and patients' experiences. *Patient Preference and Adherence*, **6**: 741–748.



- Vacher, L., Thivat, E., Poirier, C., Mouret-Reynier, M.A., Chollet, P., Devaud, H., dkk., 2020. Improvement in adherence to Capecitabine and Lapatinib by way of a therapeutic education program. *Supportive Care in Cancer*, **28**: 3313–3322.
- van de Pol, J.M., Geljon, J.G., Belitser, S. V., Frederix, G.W.J., Hövels, A.M., dan Bouvy, M.L., 2019. Pharmacy in transition: A work sampling study of community pharmacists using smartphone technology. *Research in Social and Administrative Pharmacy*, **15**: 70–76.
- Verbrugghe, M., Verhaeghe, S., Lauwaert, K., Beeckman, D., dan Van Hecke, A., 2013. Determinants and associated factors influencing medication adherence and persistence to oral anticancer drugs: A systematic review. *Cancer Treatment Reviews*, **39**: 610–621.
- Vervloet, M., Linn, A.J., van Weert, J.C.M., de Bakker, D.H., Bouvy, M.L., dan van Dijk, L., 2012. The effectiveness of interventions using electronic reminders to improve adherence to chronic medication: A systematic review of the literature. *Journal of the American Medical Informatics Association*, **19**: 696–704.
- Wagstaff, A.J., Ibbotson, T., Goa, K.L., Muggia, F.M., York, N., York, N., dkk., 2003. A Review of its Pharmacology and Therapeutic Efficacy in the Management of Advanced Breast Cancer. *Drugs*, **63**: 217–236.
- Walko, C.M., Lindley, C., Hill, C., dan Carolina, N., 2005. Capecitabine : A Review. *Clinical Therapeutics*, **27**: 23–44.
- Walsh, K., 2015. Mobile Learning in Medical Education: Review. *Ethiopian journal of health sciences*, **25**: 363–366.
- Walter, C., Mellor, J.D., Rice, C., Kirsa, S., Ball, D., Duffy, M., dkk., 2016. Impact of a specialist clinical cancer pharmacist at a multidisciplinary lung cancer clinic. *Asia-Pacific Journal of Clinical Oncology*, **12**: e367–e374.
- Wasif, M., Katirtzoglou, N.A., dan Syrigos, K.N., 2008. Capecitabine : an overview of the side effects and their management. *Anti-Cancer Drugs*, **19**: 447–464.
- Weinberg, R.A., 2000. The Hallmarks of Cancer. *Cell*, **100**: 57–70.
- Wells, B.G., DiPiro, J.T., Terry L. Schwinghamme, dan DiPiro, C. V, 2015. *Pharmacotherapy Handbook*, Ninth. ed. McGraw-Hill Education, United States.
- Whittaker, R., Merry, S., Dorey, E., dan Maddison, R., 2012. A development and evaluation process for mhealth interventions: Examples from New Zealand. *Journal of Health Communication*, **17**: 11–21.
- Wiedyaningsih, C., Widyakusuma, N.N., dan Sri Suryawati, 2023. The role of family caregivers in medication adherence of elderly in Asian setting: a

- scoping review. *Indonesian Journal of Pharmacology and Therapy*, **4**: 91–102.
- Winterhalder, R., Hoesli, P., Delmore, G., Pederiva, S., Bressoud, A., Hermann, F., dkk., 2011. Self-reported compliance with capecitabine: Findings from a prospective cohort analysis. *Oncology*, **80**: 29–33.
- Wood, L., 2012. A review on adherence management in patients on oral cancer therapies. *European Journal of Oncology Nursing*, **16**: 432–438.
- World Health Organization, 2003. *Adherence to Long-Term Therapies: Evidence for Action*. World Health Organization, Geneva.
- World Health Organization, 2012. 'WHOQOL: Measuring Quality of Life', *World Health Organization*. URL: <https://www.who.int/tools/whoqol>.
- World Health Organization, 2018a. 'Cancer', *World Health Organization*. URL: <https://www.who.int/news-room/fact-sheets/detail/cancer#:~:text=Cancer is the second leading,- and middle-income countries>.
- World Health Organization, 2018b. 'Classification of Digital Health Intervention v1.0', . World Health Organization, Geneva.
- World Health Organization, 2019. *WHO Guideline Recommendation on Digital Intervention for Health System Strengthening*. World Health Organization, Geneva.
- World Health Organization, 2023. *Classification of Digital Interventions, Services and Applications in Health*, Second. ed. World Health Organization, Geneva.
- Zahrina, A.K., Norsa'adah, B., Hassan, N.B., Norazwany, Y., Norhayati, M.I., Roslan, M.H., dkk., 2014. Adherence to capecitabine treatment and contributing factors among cancer patients in Malaysia. *Asian Pacific Journal of Cancer Prevention*, **15**: 9225–9232.
- Zhao, J., Freeman, B., dan Li, M., 2016. Can mobile phone apps influence people's health behavior change? An evidence review. *Journal of Medical Internet Research*, **18**: 1–12.



**PENGEMBANGAN INTERVENSI APOTEKER BERBASIS APLIKASI SMARTPHONE PADA PASIEN  
KANKER YANG MENGGUNAKAN  
KAPESITABIN**

ATIKA WAHYU PUSPITASARI, Prof. Dr. apt. Susi Ari K, S. Farm., M.Kes.; Prof. Dr. apt. Satibi, M.Si.; Prof. Dra. Yai

Universitas Gadjah Mada, 2024 | Diunduh dari <http://etd.repository.ugm.ac.id/>