

BAB V

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Berdasarkan hasil penelitian yang telah dilakukan terhadap 35 orang responden dalam menggunakan obat antidiabetes pada bulan Februari tahun 2015 di Puskesmas Gundih Surabaya Pusat:

1. Kepatuhan pasien yang diperoleh dengan metode *pill count* adalah sebesar $78,36 \pm 24,49 \%$.
2. Kepatuhan pasien dengan metode *MMAS-8*, diperoleh hasil 19 orang responden (54,29%) memiliki tingkat kepatuhan tinggi, 11 orang responden (31,43%) memiliki kepatuhan sedang, dan 5 orang responden (14,28%) memiliki tingkat kepatuhan rendah dalam menggunakan obat antidiabetes pada bulan Februari tahun 2015 di Puskesmas Gundih.
3. Berdasarkan hasil analisis statistik dengan menggunakan uji *chi-square* terhadap perbandingan hasil kepatuhan antara metode *pill count* dengan metode *MMAS-8* didapatkan hasil bahwa tidak ada hubungan antara hasil kepatuhan dengan menggunakan metode *pill count* dengan metode *MMAS-8* untuk mengukur tingkat kepatuhan pasien dalam menggunakan obat antidiabetes.

5.2 Saran

1. Perlu dilakukan penelitian dengan durasi yang lebih lama agar tingkat kepatuhan dalam jangka panjang dapat diketahui.
2. Perlu dilakukan penelitian mengenai pengaruh pemberian *pharmaceutical care* terhadap kepatuhan pasien.

DAFTAR PUSTAKA

- Adisa, R., Alutudu, M. B., dan Fekeye, T. O., 2009, Factors Contributing to Nonadherence to Oral Hypoglycemic Medication Among Ambulatory Type 2 Diabetes Patients in Southwestern Nigeria, *Pharmacy Practice*, 7 (3) : 163-169
- Al-Qazaz, H. K., Hassali, M. A., Shafie, A. A., Sulaiman, S. A., Sundram, S., dan Morisky, D. E., 2010, The Eight-item Morisky Medication Adherence Scale MMAS: Translation and Validation of the Malaysian Version, *Diabetes Research and Clinical Practice*, 90 (2) : 216-221
- American Diabetes Association (ADA), 2002, Report of the Expert Committee on the Diagnosis and Classification of Diabetes Mellitus, *Diabetes Care*, 25 : 5-20
- American Diabetes Association (ADA), 2010, Diagnosis and Classification of Diabetes Mellitus, *Diabetes Care*, 33 (1) : S62-S69
- American Diabetes Association (ADA), 2011, Standards of Medical Care in Diabetes-2011, *Diabetes Care*, 34 (Suppl. 1) : S11-S61
- American Diabetes Association (ADA), 2012, Standards of Medical Care in Diabetes, *Diabetes Care*, 35 (Supp 1) : S12, tabel 2
- American Diabetes Association (ADA), 2012b, Long-Term Safety, Tolerability, and Weight Loss Associated With Metformin in the Diabetes Prevention Program Outcomes Study, *Diabetes Care*, 35 (4) : 731-737
- American Diabetes Association (ADA), 2013, Standards of Medical Care in Diabetes: 2013, *Diabetes Care*, 36 (Suppl 1) : <11-66
- Arifin, Z., 1991, Evaluasi Instruksional: Prinsip-Teknik-Prosedur, Bandung: Remaja Rosdakarya

- Asian-Pacific Type 2 Diabetes Policy Group, 2005, Type 2 Diabetes Practical Targets and Treatments 4th, Melbourne: International Diabetes Institute & Singapore In Vivo Communications (Asia) Pte Limited
- Azwar, S., 1986, Reliabilitas dan Validitas Interpretasi dan Komputasi, Yogyakarta: Liberty
- Boudes, P., Drug Compliance in Therapeutic Trials: A Review, *Controlled Clinical Trials*, 19 : 257-268
- Chung, W. W, Chua, S. S., Lai, P. S. M., dan Chan, S. P., 2014, Effects of a Pharmaceutical Care Model on Medication Adherence and Glycemic Control of People with Type 2 Diabetes: Patient Preference and Adherence, *Dove Press Journal*, 8 : 1185-1194
- Cipolle, R. J., Strand, L. M., dan Morley, P., 2012, Pharmaceutical Care Pratices: The Clinician's Guide, Second Edition, New York: McGraw-Hill
- Claxton, A. J., Cramer, J., dan Pierce, C., 2001, A systematic review of the Associations between Dose Regimens and Medication Compliance. *Clin Ther.*, 23 (8):1296-1310
- Cramer, J. A., Mattson, R. H., Prevey, M. L., Scheyer, R D., dan Oullette, V. L., 1989, How Often is Medication Taken as Prescribed?: A Novel Assessment Technique, *The Journal of the American Medical Association*, 261 : 3273-3277
- Danaei, G., Finucane, M. M., Lu, Y., Singh, G. M., Cowan, M. J., dan Paciorek, C.J., *et al.*, 2011, National, Regional, and Global Trends in Fasting Plasma Glucose and Diabetes Prevalence since 1980: Systematic Analysis of Health Examination Surveys and Epidemiological Studies with 370 Country-years and 2.7 Million Participants. *Lancet*, 378 (9785) : 31–40

- DeFronzo, R.A., 1999, Pharmacologic Therapy for Type 2 Diabetes Mellitus. *Ann Intern Med*, 131 : 281–303
- Departemen Kesehatan R I (DepKes RI), 2004, Keputusan Menteri Kesehatan No. 128/MENKES/SK/II/2004 tentang Kebijakan Dasar Puskesmas, Jakarta: Departemen Kesehatan Republik Indonesia
- Departemen Kesehatan RI (DepKes RI), 2005, Pharmaceutical Care untuk Penyakit Diabetes Mellitus, Jakarta: Departemen Kesehatan Republik Indonesia
- Donovan, J. L., 1995, Patient Decision Making: The Missing Ingredient in Compliance Research, *International Journal of Technology Assessment in Health Care*, 11 : 443-445
- Donovan, J. L., dan Blake, D. R., 1992, Patient Non-compliance: Deviance or Reasoned Decision-making? *Social Science and Medicine*, 34 : 507-513
- Düsing, R., Lottermoser, K., dan Mengden, T., 2001, Compliance with Drug Therapy-New Answer to an Old Question, *Nephrol Dial Transplant*, 16 : 1317-1321
- Efendi, F., 2009, Keperawatan Kesehatan Komunitas: Teori dan Praktek dalam Keperawatan, Jakarta: Salemba Medika
- Egede, L. E., Gebregziabher, M., dan Hunt, K. J., *et al.*, 2011, Regional, Geographic, and Ethnic Differences in Medication Adherence Among Adults with Type 2 Diabetes, *Ann Pharmacother*, 45 : 169-178
- Fairman, K., dan Motheral, B., 2000, Medication Adherence: Which Measure is Right for Your Program?, *J Manages Care Pharm* : 499-504

- Farmer, K. C., 1999, Methods for Measuring and Monitoring Medication Regimen Adherence in Clinical Trials and Clinical Practice. *Clinical Therapeutics*, 21 (6) : 1071-1090
- Gangji, A. S.; Cukierman, T., Gerstein, H. C., Glodsmith, C. H., dan Clase, C. M., 2007, A Systematic Review and Meta-Analysis of Hypoglycemia and Cardiovascular Events: A Comparison of Glyburide with Other Secretagogues and with Insulin, *Diabetes Care*, 30 (2) : 389-394
- Gaster, B., dan Hirsch, I. B., 1998, The Effect of Improved Glycemic Control on Complications in Type 2 Diabetes, *Arch Intern Med*, 158 (2) : 134-140
- Goldberg, A. P., Coon, dan P. J., 1994, Diabetes Mellitus and Glucose Metabolism in Elderly, dalam: Hazzard, W. R., Bierman, E. L., Blass, J. P., Ettinger, Jr., W. H., Halter, J. B. (editor), *Principle of Geriatric Medicine and Gerontology*, New York : McGraw-Hill.
- Grymonpre, R. E., Didur, C. D., Montgomery, P. R., dan Sitar, D. S., 1998, Pill Count, Self-Report, and Pharmacy Claims Data to Measure Medication Adherence in the Elderly, *The Annals of Pharmacotherapy*, 32 : 749-754
- Hepler, C. D., 2004, Clinical Pharmacy, Pharmaceutical Care, and the Quality of Drug Therapy, *Pharmacotherapy*; 24 (11) : 1491-1498
- Hepler, C. D., dan Strand, L. M., 1990, Opportunities and Responsibilities in Pharmaceutical Care, *American Journal of Hospital Pharmacy*, 47 : 539
- Hertz, R. P., Unger, A. N., dan Lustik, M. B., 2005, Adherence with Pharmacotherapy for Type 2 Diabetes: A Retrospective Cohort Study of Adults with Employer-Sponsored Health Insurance. *Clin Therap*, 27(7):1064-1073

- Hidayat, A., dan Alimul, A., 2007, *Metode Penelitian Keperawatan dan Teknik Analisis Data*, Jakarta: Salemba Medika
- HIV Clinical Resources, 2005, Appendix X: Advantages and Disadvantages of Adherence Measures, [Online] Available from: <http://www.hivguidelines.org/clinical-guidelines/hiv-and-substance-use/appendix-x-advantages-and-disadvantages-of-adherence-measures> [Accessed: 17th November 2014]
- Horne, R., 2006, Compliance, Adherence & Concordance: Implications for Asthma Treatment. CHEST, *Official Publications of America Colledge of Chest Physicians*, 130 : 65-72
- Horne, R., Weinman, J., Barber, N., Elliot R., Morgan, M. Cribb, A., dan Kellar, I., 2005, Concordance, Adherence, & Compliance in Medicine Taking. *Centre for Health Care Research*, University of Brighton, Falmer, Brighton
- International Diabetes Federation (IDF), 2013, *Diabetes Atlas 6th edition*, N/A: International Diabetes Federation
- Inzucchi, S. E., Bergenstal, R. M., dan Buse, J. B., *et al.*, 2012, Management of Hyperglycaemia in Type 2 Diabetes:: A Patient Centered Approach. *Diabetologia*, 55 : 1577-96
- Krousel-Wood, M., Islam, T., Webber, L. S., Re, R. N., Morisky, D. E., dan Muntner, P., 2009, Medication Adherence Scale Versus Pharmacy Fill Rates in Seniors With Hypertension, *The American Journal of Managed Care*, 25 (1) : 59-66
- Lee, J. Y., Kusek, J. W., Greene, P. G., Bernhard, S., Norris, K., Smith, D., *et al.*, 1996, Assessing Medication Adherence by Pill Count and Electronic Monitoring in the African American Study of Kidney Disease and Hypertension (AASK) Pilot Study, *American Journal of Hypertension*, 9 (8), 719-725

- Mathers C., D, dan Loncar D., 2006, Projections of Global Mortality and Burden of Disease from 2002 to 2030. *PLoS Med*, 3 (11) : e442
- Morisky, D. E., Ang, A., Krousel-Wood, M., dan Ward, H. J., 2008, Predictive Validity of A Medication Adherence Measure in an Outpatient Setting, *J Clin Hypertens (Greenwich)*, 10 (5) : 348-354
- Morisky, D., E., dan DiMatteo, M. R., 2011, Improving the Measurement of Self-reported Medication Nonadherence: Final Response, *Journal of Clinical Epidemiology*, 64 : 262-263
- Morris, L. S., dan Schulz, R. M., 1992, Patient Compliance: An Overview, *Journal of Clinical Pharmacy and Therapeutics*, 17 : 183-195
- National Institute of Diabetes and Institute of Diabetes and Digestive and Kidney Disease, 2012, National Diabetes Information Clearinghouse, [Online] Available from: http://diabetes.niddk.nih.gov/dm/pubs/medicines_ez/insert_C.asp x [Accessed: 7th December 2014]
- Perkumpulan Endokrinologi Indonesia, 2011, Konsensus Pengelolaan dan Pencegahan Diabetes Melitus Tipe 2 di Indonesia
- Podar, T., Solntsev, A., Reunanen, A., Urbonaite, B., Zalinkevicius, R., Karvonen, M., LaPorte, R. E, dan Tuomilehto, J., 2000, Mortality in Patients with Childhood Onset Type I Diabetes in Finland, Estonia, and Lithuania: Follow-up of Nationwide Cohorts, *Diabetes Care*, 23 : 290-294
- Ramadona, A., 2011, Pengaruh Konseling Obat Terhadap Kepatuhan Pasien Diabetes Mellitus Tipe 2 Di Poliklinik Khusus Rumah Sakit Umum Pusat Dr. M. Djamil Padang, *Artikel*, Program Pascasarjana Universitas Andalas Padang

- Reece, E., A., 2010, The Fetal and Maternal Consequences of Gestational Diabetes Mellitus, *J Maternal Fetal Neonatal Med*, 23 (3) : 199-203
- Riskawati, 2013, Uji Validitas dan Reliabilitas, [Online] Tersedia di: <http://StatistikaPendidikan.com> [Dilihat 7 Maret 2015]
- Saepudin, Padmasari, S., Hidayanti, P., dan Ningsih, E. S., 2013, Kepatuhan Penggunaan Obat pada Pasien Hipertensi di Puskesmas, *Jurnal Farmasi Indonesia*, 6 (4) : 246-253
- Sakthong, P., Chabunthom, R., dan Sakulbumrungsil, R., 2009, Psychometric Properties of the Thai Version of the 8-item Morisky Medication Adherence Scale in Patients with Type 2 Diabetes, *Annals of Pharmacotherapy*, 43 : 950-957
- Tashakkori, A. dan Teddlie, C., 2003, Handbook of Mixed Method in Social & Behavioral Research. *Thousand Oaks*, CA: Sage
- UK Prospective Diabetes Study (UKPDS) Group 1998, Effect of Intensive Blood-Glucose Control with Metformin on Complications in Overweight Patients Type 2 Diabetes (UKPDS34), *The Lancet*, 352 (9131) : 854-865
- Uyanto, S. S., 2009, Pedoman Analisis Data dengan SPSS, Yogyakarta: Graha Ilmu
- Vik, S. A., Maxwell, dan C. J., Hogan, D. B., 2004, Measurement, Correlates, and Health Outcomes of Medication Adherence among Seniors. *Annals of Pharmacotherapy* 38 : 303-312
- Wang, J., Bian, R. W., dan Mo, Y. Z., 2012, Validation of the Chinese Version of the Eight-item Morisky Medication Adherence Scale in Patients with Type 2 Diabetes Mellitus, *Journal of Clinical Gerontology and Geriatrics*, 4 (4) : 119-122

- Winkler, A., Teuscher, A. U., Mueller, B., Diem, P., 2002, Monitoring Adherence to Prescribed Medication in Type 2 Diabetic Patients Treated with Sulfonylureas, *Swiss Med Weekly*, 132 : 379-385
- World Health Organization (WHO), 2003, Adherence to Long-term Therapy Evidence for Action, Geneva: World Health Organization
- World Health Organization (WHO), 2009, *Global Health Risks: Mortality and Burden of Disease Attributable to Selected Major Risks*, Geneva: World Health Organization
- Zinman, B., 1998, Glucose Control in Type 1 Diabetes: From Conventional to Intensive Therapy. *Clinical Cornestone*, 1 : 29-38